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Introductory Notes

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of Arts and Sciences

Courses of Instruction, 2012011

July 9, 2010

About this Catalog

The contents of this publication may be found on the Internet at: www.registrar.fas.harvard.edu/courses. The closing date for material in this catalog was May 18, 2010. The University reserves the right to withdraw or modify courses of instruction at any time. Review of academic, financial, and other considerations leads to changes in the policies, rules, and regulations applicable to students, and the Faculty of Arts and Sciences therefore reserves the right to make changes at any time. These changes may affect such matters as tuition and all other fees, degrees and programs offered (including the modification or possible elimination of degrees and programs), degree and other academic requirements, academic policies, rules pertaining to student conduct and discipline, fields or areas of concentration, and other rules and regulations applicable to students.

While every effort has been made to ensure that this catalog is accurate and up-to-date, it may include typographical or other errors. Changes are periodically made to this online catalog.



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Barry S. Kane, Registrar

Beverly Tyler, Associate Registrar-Courses, Scheduling, and Publications

Sheila F. Winborne, Manager of Courses

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2010-2011 Previous Courses of Instruction



Harvard University
Faculty of Arts and Sciences
Office of the Registrar

Standing Committees with Curricular Responsibilities



Standing Committee lists in the body of this catalog and the list below are based on preliminary information available for publication in Courses of Instruction. Final Committees as appointed by the President will be printed in October in the Harvard University Gazette and in the 2009-2010 General Catalog issue of the Official Register. Some Committee members hold administrative or research appointments rather than teaching appointments.

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Higher Degrees in Business Studies, Professor Mihir A. Desai, Chair

Degree of Doctor of Philosophy in Business Economics,



Professor Jerry R. Green, Chair

Degree of Doctor of Philosophy in Science, Technology, and Management,

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Degree of Master of Arts in Regional Studies Russia, Eastern Europe, and Central Asia,

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Oceanography, Professor Eli Tziperman, Chair

South Asian Studies, Chair to be announced

Special Committees

Concentration in Chemistry and Physics, Professor Eric J. Heller, Chair



Academic Calendar for Next Two Years

<="" span="">2012011		<="" span="">2012012
Freshman registration	aug 31 (Tu)	sep 2 (F)
GSAS registration	aug 25 (W)	TBA
Upperclass registration	aug 31 (Tu)	sep 2 (Tu)
Academic year begins (First meeting of fall term classes)	sep 1 (W)	sep 6 (Tu)
HolidaLabor Day	sep 6 (M)	sep 5 (M)
Study card day	sep 9(Th)	TBA
Freshman study card day	sep 9 (Th)	TBA
HolidaColumbus Day (observed)	oct 11 (M)	oct 10 (M)
HolidaVeteran Day	nov 11 (Th)	nov 11 (F)
Thanksgiving recess	nov 25 (Thnov 28 (Su)	nov 24 (Thnov 27 (Su)
Fall reading period	dec 3 (Fdec 12 (Su)	dec 7 (Wdec 13 (Tu)
Fall term final examinations	dec 13 (Mdec 21 (M)	dec 14 (Wdec 21 (W)
Winter recess	dec 22 (Wjan 2 (Su)	dec 22 (Thjan 1 (Su)
Optional winter session	jan 3 (Mjan 23 (Su)	jan 2 (Mjan 22 (Su)
HolidaMartin L. King, Jr. Day(observed)	jan 17 (M)	jan 16 (M)
Second term begins (First meeting of spring term classes)	jan 24 (M)	jan 23 (M)
Study card day	jan 28 (F)	TBA<="" span="">
HolidaPresident Day (observed)	feb 21 (M)	feb 20 (M)
Spring recess	mar 12 (Samar 20 (Su)	mar 10 (Samar 18 (Su)
Spring reading period	apr 28 (Thmay 5 (Th)	apr 26 (Thmay 3 (Th)
Spring term final examinations	may 6 (Fmay 14 (Sa)	may 4 (Fmay 12 (Sa)
Commencement	may 26 (Th)	may 24 (Th)
HolidaMemorial Day (observed)	may 30 (M)	may 28 (M)
Summer school	jun 27 (Maug 12 (F)	jun 25 (Maug 10 (F)



Explanation of Course Listings

Introductory Note

The Faculty of Arts and Sciences offers these courses to students registered in Harvard College and the Graduate School of Arts and Sciences. A student in good standing in any other School of the University may be admitted to courses by cross-registration. Cross-registration petitions are available from the Resident Deas office for undergraduates and at the Registras Office of each school for graduate students.

Students are admitted to a course only if they have fulfilled all the requirements for that course as stated in this catalog, or by permission of the instructor. Requirements are usually stated as Prerequisites in the course descriptions.

Courses numbered in the 300s or 3000s are for graduate students only. Advanced Standing Students in their fourth year of residence, who are candidates for the mastes degree, may enroll in these courses with the signature of the instructor on their study cards.

Students registered in the Faculty of Arts and Sciences may enroll in most courses given by other faculties of the University. They also may take courses at the Episcopal Divinity School (graduate students only), the Fletcher School of Law and Diplomacy (graduate students only), and the Massachusetts Institute of Technology (including the HarvarMIT Program in Health Sciences and Technology). For details on cross-registration procedures, undergraduates should consult Handbook for Students and graduates should consult The Graduate School of Arts and Sciences Handbook. Catalogs of the other faculties and institutions are available at Lamont and Widener libraries. The Harvard University on-line course catalogs containing course descriptions, faculty information, and general information about classes at each school are available on the Internet at www.harvard.edu/academics.

This FAS course catalog is also available on the Internet at www.registrar.fas.harvard.edu/courses. Note that this HTML version is not full text searchable or indexed to be searched through any of the University On-line Course Catalogs.

Course Shopping and Enrollment Tool



The course Shopping and Enrollment Tool is available at the my.Harvard.edu portal for on-line course shopping and course selection. The Shopping Tool offers the ability to search for FAS courses using multiple course attributes. The Enrollment Tool provides the functionality to select courses for a term. To use the Shopping and Enrollment Tool, access the my.Harvard.edu portal by entering your ID Number and PIN. Then, click on the Courses tab.

Explanation of Course Listings

Most courses are numbered with the following general scheme:

99 Primarily for Undergraduates

10199 Undergraduates and Graduates

20299 Primarily for Graduates

30399 Graduate Courses of Reading and Research

Anthropology, Business Studies, Chemical Biology, Economics, Government, Health Policy, History, Psychology, Religion, and Studies of Women, Gender, and Sexuality courses have four-digit numbers. The following general scheme applies:

91999 Primarily for Undergraduates

1001999 For Undergraduates and Graduates

2002999 Primarily for Graduates

3003999 Graduate Courses of Reading and Research

Unless otherwise specified, Graduate Courses of Reading and Research are half courses offered in both fall and spring terms.

A Capital letters designate elementary courses in language and composition; numerals designate all other courses, with the number 1 (and not zero) as the lowest designation.



- hf <="" span="">Half courses extending throughout the two terms of the academic year are designated by hf immediately following the course number.
- r <="" span="">Courses that may be repeated for credit are designated by an r immediately following the course number.
- * <="" span="">An asterisk before a course title indicates that the instructor must consent to a student's enrollment by signing the study card.
- [] <="" span="">A course number and title enclosed in brackets indicates that the course is not being offered during the current year. A note indicates when it will next be offered.
- () <="" span="">A day enclosed in parentheses indicates that the course meets on that day only at the discretion of the instructor.

Catalog Number: The four- or five-digit number below the course title is a course identification number used for computer processing and on the study card. The following catalog numbers, not listed elsewhere in this catalog, have been assigned for the special study opportunities of TIME (for graduate students) and Independent Study (for undergraduates):

Independent Study 9999

TIME-C 8899

TIME-R 7700

TIME-T 8811

Instructor Number: In course listings of Graduate Courses of Reading and Research, each instructor's name is followed by a four-digit identification number used for computer processing and on the study card.



Examination Group: Marked by the phrase EXAM GROUP; in most course listings, the numbers indicate the Examination Group to which the course belongs. Examination Groups usually correspond to class meeting times and ordinarily change if the meeting time changes (see next page). Tutorials and 300/3000-level courses are not typically assigned to an Examination Group.

Sample catalog listing:

TITLE	Economics1666 (formerly Economics 1026). The Economics of Climate Change
CATALOG NUMBER	CatalogNumber 9468
INSTRUCTOR	<i>Martin L. Weitzman</i>
MEETING TIME	<i>Half course (fall term).M., W., 2:30; and a weeklysection F., 1-2:30.EXAM GROUP: 6, 7</i>
DESCRIPTION	Core analysis andbasic empirics underpinning economic models of climate change. This topic is anevolving area on the research frontier of applied theory that is currently ofgreat interest to economists. Develops relevant aspects of time discounting,economics of uncertainty, modern cost-benefit analysis, capital- theoreticdynamics, and optimal control theory. The primary application is toenvironmental economics, especially climate change.
OTHER INFO	Note: Requiresbackground in economic theory, mathematics, and statistics. Prerequisite: Economics1011a, 1011b, and Statistics 100.



Examinations

Examination Groups

Fall Final/Midyear and Spring Final examinations are ordinarily held in all FAS courses except for tutorials, research seminars, and other low-enrollment courses. Approval for the substitution of other work in lieu of an examination is granted by the Office of Undergraduate Education (100-level or below) or by the Dean of the Graduate School (200-level and above).

The Faculty of Arts and Sciences has published an eight-day Final Examination Schedule. For purposes of scheduling these final examinations, FAS courses are divided into 18 Exam Groups corresponding to class meeting times.

Courses that meet at four popular meeting times, have their own Exam Groups and days:

Exam Group 3 for courses that meet MWF at 10 am.

Exam Group 4 for courses that meet MWF at 11 am.

Exam Group 5 for courses that meet MWF at 12 noon.

Exam Group 13 for course that meet TuTh at 11 am.

Courses that meet at all other times are combined in Exam Group Sets; courses within each Exam Group Set have their final examinations scheduled on the same day.

All courses assigned to the following Exam Group Sets are scheduled to have their final examinations on the same day:

Exam Groups: 1, 7, 14

Exam Groups: 2, 15, 16

Exam Groups: 6, 10

Exam Groups: 8, 9, 11, 12, 17, 18



Students may enroll in two (or more) courses within the same Exam Group or Exam Group Set, if the meeting times of the courses never conflict. Students in Harvard College should see Handbook for Students for a further discussion of simultaneous enrollment.

Note: Students who wish to avoid having two final examinations on one day should not enroll in two (or more) courses with the same Exam Group or within the same Exam Group Set.

Students are reminded that they should be prepared to be available for examinations through the last day of the examination period. For the fall term, the Final Examination Period is December 13, 2010, through December 21, 2010. For the spring term, the Final Examination Period is May 6, 2011, through May 14, 2011. The official dates and times for examinations are posted to the Registrar's website, www.registrar.fas.harvard.edu, shortly after Study Card Day each term.

Classes that meet in sessions longer than one hour are listed in the catalog with more than one Exam Group. The final examination for such a course will be assigned to one of these groups by the Registrar's Office and announced on the posted schedule. Meeting times for courses listed in this catalog are subject to change; any change in the day or time of a class meeting time will result in a corresponding change in the Examination Group for the course. For courses designated Examination date to be announced the Registrar's Office will determine the date of the exam, which may be any day of the eight-day examination period.

For rules governing examinations, undergraduates are advised to consult Handbook for Students; graduate and special students, The Graduate School of Arts and Sciences Handbook.

Absence of Student due to Religious Beliefs

Examination Groups and Dates

The table below shows the dates of final examinations associated with each of the final Examination Groups. For most courses, an Examination Group is published in *Courses of Instruction* within the course description. Examination Groups correspond to course meeting days and times and ordinarily change if the course meeting days and times change. Occasionally, the Office of the Registrar may need to assign an Exam Group that does not correspond to the meeting days and times of a course. All students are therefore advised that they should not make any travel plans until the official Final Examination Schedule is published. Students are expected to be in residence for the duration of the Final Examination Period. For the fall term, the Final



Examination Period is December 13, Monday, through December 21, Tuesday. For the spring term, the Final Examination Period is May 6, Friday, through May 14, Saturday.

Examination Group	Fall Final/ Midyear Examination	Spring Final Examination
1	dec 17 (F)	may 14 (Sa)
2	dec 16 (Th)	may 13 (F)
3	dec 15 (W)	may 12 (Th)
4	dec 13 (M)	may 10 (T)
5	dec 18 (Sa)	may 6 (F)
6	dec 21 (T)	may 9 (M)
7	dec 17 (F)	may 14 (Sa)
8	dec 20 (M)	may 7 (Sa)
9	dec 20 (M)	may 7 (Sa)
10	dec 21 (T)	may 9 (M)
11	dec 20 (M)	may 7 (Sa)
12	dec 20 (M)	may 7 (Sa)
13	dec 14 (T)	may 11 (W)
14	dec 17 (F)	may 14 (Sa)
15	dec 16 (Th)	may 13 (F)
16	dec 16 (Th)	may 13 (F)
17	dec 20 (M)	may 7 (S)
18	dec 20 (M)	may 7 (S)

Voter Registration

Voter registration forms for the Commonwealth of Massachusetts are available to students during business hours at the Office of the Registrar, 20 Garden Street, Cambridge.



General Education

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Committee on General Education

Jay M. Harris, Harry Austryn Wolfson Professor of Jewish Studies (*Chair*)
Ann M. Blair, Henry Charles Lea Professor of History, Harvard College Professor (*on leave spring term*)
Emma Dench, Professor of the Classics and of History, Harvard College Professor
Scott V. Edwards, Professor of Organismic and Evolutionary Biology
Florian Engert, Professor of Molecular and Cellular Biology
Claudine Gay, Professor of Government and of African and African American Studies
Edward J. Hall, Professor of Philosophy
John Huth, Donner Professor of Science
Stephanie H. Kenen (*ex officio*)
David I. Laibson, Robert I. Goldman Professor of Economics, Harvard College Professor
Andrew W. Murray, Herchel Smith Professor of Molecular Genetics
Michael J. Puett, Professor of Chinese History

As part of the Harvard College Curricular Review, the Faculty of Arts and Sciences voted to replace the existing, thirty-year-old Core Curriculum requirements with a new Program in General Education in order to align these requirements with the educational needs of Harvard College students at the dawn of the twenty-first century. In contrast with the Core Curriculum, which required that students be exposed to a number of different "ways of knowing," the new Program seeks explicitly to "connect a student's liberal education - that is, an education conducted in a spirit of free inquiry, rewarding in its own right - to life beyond college." In addition, the new Program in General Education seeks to provide new opportunities for students to learn - and faculty to teach - in ways that cut across traditional departmental and intra-University lines.

The new Program requires that students pass one letter-graded half-course in each of eight categories: Aesthetic and Interpretive Understanding; Culture and Belief; Empirical and Mathematical Reasoning; Ethical Reasoning; Science of Living Systems; Science of the Physical Universe; Societies of the World; United States in the World. One of the eight courses must also engage significantly with study of the past (these courses are identified in the "Note" field of each catalog entry).

Students in the Class of 2013 enter the College under the new General Education requirements. Other students are permitted to switch to the new Program if it fits with their overall curricular plan. All courses that count for General Education also receive a Core designation and thus count



for either program.

For the most up-to-date listing of General Education course offerings, please see the on-line version of *Courses of Instruction*, as well as the website (www.generaleducation.fas.harvard.edu).

Aesthetic and Interpretive Understanding

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Courses in the Aesthetic and Interpretive Understanding category focus on the development of aesthetic responsiveness and the ability to interpret forms of cultural expression through the study of literary or religious texts, paintings, sculpture, architecture, music, film, dance, decorative arts, etc. Students learn to engage intelligently and critically with the world of art, literature, and ideas by analyzing works in a theoretical framework.

Aesthetic and Interpretive Understanding

[Aesthetic and Interpretive Understanding 11. Poetry Without Borders]

Catalog Number: 0416

Stephanie Sandler (Slavic Languages and Literatures)

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

Studies poetry as a cultural practice that requires and perversely challenges visual, linguistic, geographic, and aesthetic borders. Main topics are translation (poems crossing borders), emigration/exile (poets crossing borders), and poetry and other arts (poems joining with music, film, photography, and philosophy). Poems and prose by Bernstein, Bei Dao, Brodsky, Grünbein, Howe, Kaminsky, Nabokov, Sebald, and Wright, among others; theoretical texts, sound recordings, visual images, films, and poetry performances. Frequent short written work. *Note:* Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

[Aesthetic and Interpretive Understanding 12. Poetry in America]

Catalog Number: 0748

Elisa New (English)

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

Surveying 300+ years of poetry in America, from the Puritans to the avant-garde poets of this new century, the course covers individual figures (Poe, Whitman, Dickinson, Frost, Williams, Hughes), major poetic movements (Firesides, Modernist, New York, Confessional, L-A-N-G-U-A-G-E) and probes uses of poetry across changing times. Who, and what, are poems for? For poets? Readers? To give vent to the soul? To paint or sculpt with words? Alter consciousness? Raise cultural tone? Students will read, write about and also recite American poems. *Note:* Expected to be given in 2011–12. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.



Aesthetic and Interpretive Understanding 13 (formerly Spanish 180). Cultural Agents

Catalog Number: 0460

Doris Sommer (Romance Languages and Literatures; African and African American Studies) and Francesco Erspamer (Romance Languages and Literatures)

Half course (fall term). M., 3–5, and a weekly section to be arranged. EXAM GROUP: 8, 9

Explore the arts as social resources! Starting with a “Cultural Agents Fair” to meet local change artists as possible partners for collaborative projects (on mayors, music, murals, mimes, etc.), students will consider how defamiliarization and the counterfactual make change thinkable. Then we will track how aesthetic effects and side-effects can promote social change. Theoretical readings (Schiller, Kant, Dewey, Freire, Gramsci, Rancière, Mockus, Boal, Nussbaum, Pasolini, inter alia) are grounded in concrete cases of agency.

Note: This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts C.

Aesthetic and Interpretive Understanding 14 (formerly Literature and Arts C-56). Putting Modernism Together

Catalog Number: 7613

Daniel Albright (English)

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

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

Note: This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts C.

Aesthetic and Interpretive Understanding 15 (formerly English 34). Elements of Rhetoric]

Catalog Number: 3820 Enrollment: Limited to 100.

James Engell (English)

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

Classical rhetorical theory, as originating with Aristotle, in contemporary applications. The nature of rhetoric in modern culture; practical examples drawn from American history and literature 1765 to present; written exercises and attention to public speaking; briefly treats the history and educational importance of rhetoric in the West; stresses theory and practice as inseparable; non-concentrators encouraged.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

Aesthetic and Interpretive Understanding 16. Openings: The Illuminated Manuscript]

Catalog Number: 30214

Jeffrey F. Hamburger (History of Art and Architecture)

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

12



In an age of mechanical – and now virtual – reproduction, we have lost sight of the basic visual unit that structures our experience of the book: the opening. Employing old and new technologies, this course focuses on medieval books, their decoration and their readers in the Middle Ages (ca. 300–1500), when the book as we have known it, along with allied institutions, such as the university itself, first came into being.

Note: Expected to be given in 2011–12. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts B.

**[Aesthetic and Interpretive Understanding 17 (formerly Literature and Arts B-78).
 Soundscapes: Exploring Music in a Changing World]**

Catalog Number: 2093

Kay Kaufman Shelemay (Music)

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

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

Note: Expected to be given in 2012–13. This course, when taken for a letter grade, meets the General Education requirement for either Aesthetic and Interpretive Understanding or Culture and Belief, but not both. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts B.

Aesthetic and Interpretive Understanding 20 (formerly Literature and Arts A-22). Poems, Poets, Poetry

Catalog Number: 5808

Helen Vendler (University Professor; English)

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

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

Note: This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

Aesthetic and Interpretive Understanding 21 (formerly Literature and Arts A-51). Virgil: Poetry and Reception

Catalog Number: 1565

Richard F. Thomas (The Classics)



Half course (fall term). M., W., at 11, and a weekly section to be arranged. EXAM GROUP: 4
Begins with the *Aeneid*, paradigmatic epic of the West, from various perspectives, involving literary aesthetics and translation theory, Homeric and other intertextuality, concepts of heroism and anti-heroism, individual choice vs. public responsibility, critique of empire then, now, and in between. Concurrent attention to Virgil tradition in early Christianity, Dante, Milton, Dryden, the Romantics, post-WWI Modernists; influence on music, art, and iconography. Subsequent focus on the *Eclogues* and *Georgics*, their place in the traditions of European pastoral and didactic, status as works of early Augustan poetry, and reception from Petrarch to Heaney.

Note: This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

**[Aesthetic and Interpretive Understanding 22 (formerly Literature and Arts A-64).
American Literature and the American Environment]**

Catalog Number: 4783

Lawrence Buell (English)

Half course (fall term). Tu., Th., at 9, and a weekly section to be arranged.

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

Note: Expected to be given in 2012–13. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

**[Aesthetic and Interpretive Understanding 23 (formerly Literature and Arts A-88).
Interracial Literature]**

Catalog Number: 1086

Werner Sollors (English)

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

This 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, plays, novels, short stories, poems, and non-fiction, as well as films and 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. Focus is on the European tradition and the Harlem Renaissance.

Note: Expected to be given in 2011–12. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

**[Aesthetic and Interpretive Understanding 24 \(formerly Literature and Arts B-51\). First
Nights: Five Performance Premieres](#)**



Catalog Number: 0144

Thomas F. Kelly (Music)

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

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.

Note: Expected to be omitted in 2011–12. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts B.

**Aesthetic and Interpretive Understanding 25 (formerly Literature and Arts C-55).
Surrealism: Avant-Garde Art and Politics between the Wars**

Catalog Number: 7818

Susan R. Suleiman (Romance Languages and Literatures; Comparative Literature)

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

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

Note: Expected to be omitted in 2011–12. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts C.

[Aesthetic and Interpretive Understanding 26 (formerly Studies of Women, Gender, and Sexuality 1133). Gender and Performance]

Catalog Number: 8829

Robin M. Bernstein (Studies of Women, Gender, and Sexuality)

Half course (spring term). Tu., Th., at 11, and a weekly section to be arranged.

Introduction to performance studies as it intersects with studies of gender, sexuality, and race. What does it mean to say gender is “performed”? How does performance – both on- and offstage – construct and deconstruct power? Topics include transgressive and normative gender, feminist and queer theatre, athletics, gender in everyday life, drag, AIDS, and weddings. Texts include Eve Ensler, Ntozake Shange, Judith Butler, Anna Deavere Smith, Cherrie Moraga, David Henry Hwang, Bertolt Brecht, Guillermo Gómez-Peña.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts B.

**[Aesthetic and Interpretive Understanding 27 (formerly Literature and Arts A-17).
Childhood: Its History, Philosophy, and Literature]**



Catalog Number: 4852 Enrollment: Limited to 200.

Maria Tatar (Germanic Languages and Literatures; Folklore and Mythology)

Half course (fall term). Tu., Th., at 1, and a weekly section to be arranged.

With the so-called discovery or invention of childhood in the 16th and 17th centuries came a newfound emotional attachment, imaginative investment, and philosophical interest in the child. We explore literature for the child (*Alice in Wonderland*) as well as literature about the child (*Lolita*) and investigate how childhood has been constructed, investigated, and represented. Analysis of works by Locke, Rousseau, and Freud, as well as Dickens, J. M. Barrie, Henry James, and Roald Dahl.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the General Education requirement for either Aesthetic and Interpretive Understanding or Culture and Belief, but not both. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

[Aesthetic and Interpretive Understanding 29 (formerly Literature and Arts A-48). Moral Imagination in Modern Jewish Literature]

Catalog Number: 1250

Ruth R. Wisse (Near Eastern Languages and Civilizations; Comparative Literature)

Half course (spring term). Tu., Th., at 11, and a weekly section to be arranged.

Studies Jewish experience of the 20th century as interpreted by eight major writers including Sholem Aleichem, Kafka, Isaac Babel, I. B. Singer, and Saul Bellow. Focuses—not exclusively—on how moral imagination is refracted through language, subject, genre, and style. What is the moral dimension of fiction? How does language affect nature of morality? How does literature cross cultural boundaries? Introductory course requiring no prerequisites.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

[Aesthetic and Interpretive Understanding 30 \(formerly Literature and Arts A-92\). Love In A Dead Language: Classical Indian Literature and Its Theorists](#)

Catalog Number: 6240

Parimal G. Patil (Sanskrit and Indian Studies)

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

An exploration of love in five genres of classical South Asian literature—epic history, story literature, plays, poetic miniatures, and court poetry. We will pay particular attention to the nature of literary genres and practices and how they were theorized by South Asian intellectuals. Especially relevant are theories of poetic language, aestheticized emotion (especially love), and literary ornamentation.

Note: Expected to be omitted in 2011–12. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

[Aesthetic and Interpretive Understanding 31 \(formerly Literature and Arts B-85\). American Musicals and American Culture](#)

Catalog Number: 2449 Enrollment: Limited to 150.

Carol J. Oja (Music)



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

During much of the 20th century, the Broadway musical stood at the center of American culture, producing tunes and tales that became the hits of their day. It commented—wittily, satirically, relentlessly—on the ever-shifting social and political landscape, with subjects ranging from new immigrants to poverty, power, westward expansion, and issues of race. This course explores the musical artistry and cultural resonances of a cluster of iconic Broadway musicals on stage and screen, including *Shuffle Along*, *Show Boat*, *Stormy Weather*, *The Cradle Will Rock*, *Oklahoma!*, and *Pacific Overtures*. Readings focus on primary sources drawn from Harvard's illustrious Theatre Collection.

Note: This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts B.

[Aesthetic and Interpretive Understanding 32 (formerly Literature and Arts C-51). Revolution and Reaction: The Rise and Fall of the Russian Avant-Garde]

Catalog Number: 6984

John E. Malmstad (Slavic Languages and Literatures)

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

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

Note: Expected to be given in 2012–13. All readings in English. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for either Foreign Cultures or Literature and Arts C, but not both.

[Aesthetic and Interpretive Understanding 33 \(formerly Classical Studies 154\). Ancient Fictions: The Ancient Novel in Context](#)

Catalog Number: 7862

David F. Elmer (The Classics)

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

Did the Greeks and Romans read novels? Fictional prose narratives about adventure and romance in exotic lands were immensely popular in antiquity. We will explore this tradition by reading the five surviving Greek novels, the *Golden Ass* of the Roman Apuleius, and selected other texts, along with works by contemporary theorists and critics. Topics include: definitions of the “novel;” ancient representations of desire; gender and class politics; relationships between secular and religious narratives.

Note: This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

[Aesthetic and Interpretive Understanding 34. The Art of Interpretation]

Catalog Number: 75613



Julie A. Buckler (Slavic Languages and Literatures)

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

Explores the practices and procedures of interpretation for verbal, visual, and performance arts. Is interpretation of an artwork equivalent to its object, with all meaning made legible, translated from artistic discourse into “plain” language? Does interpretation add content to an artwork? Is interpretation in the humanities a technique? An art? An act? What are its aims? What are the relevant interpretive contexts for a given artwork? How can we determine whether an interpretation is valid?

Note: Expected to be given in 2012–13. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

Aesthetic and Interpretive Understanding 35. Forms in Korean Cultural History

Catalog Number: 8798

David McCann (East Asian Languages and Civilizations)

Half course (fall term). M., 2-4, and a weekly section to be arranged. EXAM GROUP: 7, 8

This course starts with Korea’s self-presentation through the Korea Wave, then turns to the features of twentieth century *modernity*. The third part examines historical case studies in cultural survival. *Korea Indigenous* pursues two modes of study, academic and aesthetic: the study of texts, pictures and other formulations of Korean identities, through discussions and writing; and the creation of the aesthetic, for example through writing poems in the Korean *sijo* form.

Note: This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Foreign Cultures.

Aesthetic and Interpretive Understanding 36 (formerly Foreign Cultures 94). Buddhism and Japanese Culture

Catalog Number: 3203

Ryuichi Abe (East Asian Languages and Civilizations)

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

This course is designed to enable students to analyze a wide range of Japanese cultural creations—such as Noh Theater, Haiku poetry, art of tea, manga, and anime—by illustrating the influence of Buddhism both on their forms and at their depths. The first part of the course is a study of major Buddhist philosophy and its impact on Japanese literature. The second part observes Buddhist ritual practices and their significance for Japanese performing arts. The last part traces the development of Japanese Buddhist art, and considers the influence of Buddhism on diverse contemporary popular Japanese art media.

Note: Expected to be omitted in 2011–12. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Foreign Cultures.

[Aesthetic and Interpretive Understanding 37. Introduction to the Bible in the Humanities and the Arts]

Catalog Number: 92966

Gordon Teskey (English)



Half course (fall term). M., W., at 11, and a weekly section to be arranged.

A course on the structure of the Bible, which William Blake called “the great code of art.” Major themes include the invention of God, the invention history, and the invention of the city (or rather, of two cities, that of the devil and that of God). About two-thirds of the Authorized Version (King James) of 1611 will be read.

Note: Expected to be given in 2011–12. The course does not count for the English concentration pre-1800 requirement. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

Aesthetic and Interpretive Understanding 38. The English Language as Literature - (New Course)

Catalog Number: 47723

Daniel Albright (English)

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

This course will recount the development of English literature, from Caedmon’s hymn to *Ulysses*, as a story about the development of the English language, its new musculatures: how the steady accretion of linguistic and word-musical possibilities (French and Latin vocabulary, Italian stanza forms, Germanic and Celtic archaisms, finally a sort of pan-European synthesis) shaped the works of Chaucer, Spenser, Milton, Swift, MacPherson, Wordsworth, Tennyson, Hopkins, Yeats, Joyce, and Beckett.

Note: This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

Aesthetic and Interpretive Understanding 39 (formerly Chinese Literature 150). Old Tales for New Times: The Appropriation of Folklore in Modern and Contemporary China

Catalog Number: 7777

Wilt L. Idema (East Asian Languages and Civilizations) and David Der-Wei Wang (East Asian Languages and Civilizations)

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

This class will look at China’s most famous traditional tales, such as *Mulan*, *The White Snake*, *Meng Jiangnü* and *Liang Shanbo and Zhu Yingtai* (the *Butterfly Lovers?*). We will study both the richness and variety of these tales in premodern times, and look into their modern and contemporary manifestations in fiction, stage, cinema and other popular media. Special emphasis is put on tradition and modernity, gender and moral dynamics, regionalism and nationalism.

Note: Expected to be omitted in 2011–12. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Foreign Cultures.

Aesthetic and Interpretive Understanding 40. Monuments of Islamic Architecture - (New Course)

Catalog Number: 94499

David J. Roxburgh (History of Art and Architecture) and Gülru Necipoglu-Kafadar (History of Art and Architecture)

Half course (spring term). Tu., Th., at 11, and a weekly section to be arranged.



An introduction to ten iconic monuments of the Islamic world from the beginning of Islam to the early modern period. The course introduces various types of building-mosques, palaces, multifunctional complexes-and city types and the factors that shaped them, artistic, patronal, socio-political, religio-cultural, and economic. Each case study is divided into two lectures. The first presents the monument or city by “walking” through it. The second is devoted to themes elicited from the example, developed in light of comparative monuments, sites, and/or written sources, and to problems of patronage, production, audience and meaning as they pertain to architectural history.

Note: This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts B.

Aesthetic and Interpretive Understanding 41 (formerly 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 (Slavic Languages and Literatures; Comparative Literature)

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

A study of the emergence of a secular literary tradition in the Russian imperial period. Focus on cultural institutions (religion, art, literature), issues of the aesthetic and social critique, and problems of interpretation for contemporary and modern readers. Analysis of novels by Pushkin, Lermontov, Gogol, Turgenev, Dostoevsky, and Tolstoy.

Note: Expected to be omitted in 2011–12. No knowledge of Russian required. This course, when taken for a letter grade, meets the General Education requirement for either Aesthetic and Interpretive Understanding or Culture and Belief, but not both. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts C.

Aesthetic and Interpretive Understanding 42. Literature and Revolution: Great Books in Moments of Cultural Transformation

Catalog Number: 88601

James Simpson (English)

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

What is the function of literary texts in moments, from Plato to the Russian Revolution, that promise total, enlightened societal transformation? Each week, this course will focus on two texts related to selected “revolutionary” moments, one philosophical and one literary. Literary texts do not participate easily in the revolutionary order. They resist the textual simplicities of philosophy. Which do we trust: philosophy or literature? Texts include many found in traditional “Great Books” courses: Plato, Virgil, Augustine, Dante, Luther, Milton, Swift, Rousseau, Twain, Kant, Marx, and Chekov, among others.

Note: Students who have taken Culture and Belief 18 may not take this course for credit. This course, when taken for a letter grade, meets the General Education requirement for either Culture and Belief or Aesthetic and Interpretive Understanding, but not both. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts C.



[Aesthetic and Interpretive Understanding 43 (formerly Literature and Arts B-35). Visual Culture of the Ottoman Empire Between East and West (15th - 17th Centuries)]

Catalog Number: 1678

Gülru Necipoglu-Kafadar (History of Art and Architecture)

Half course (spring term). Tu., Th., at 11, and a weekly section to be arranged.

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

Note: Expected to be given in 2012–13. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts B.

Aesthetic and Interpretive Understanding 44. Arts of Asia - (New Course)

Catalog Number: 79929

Melissa M. McCormick (East Asian Languages and Civilizations), Yukio Lippit (History of Art and Architecture), and Eugene Wang (History of Art and Architecture)

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

Examines the materials and artistic processes of artifacts from China, Korea, and Japan, as well as the historical, social, religious, and philosophical contexts in which they were produced. Each week focuses on a different type of object (ceramics, prints, painting, calligraphy, sculpture, architecture, and performance art) linked to different types of spaces (the tomb, household, palace, temple, shrine, and the city). Emphasizes up-close analysis of objects selected from the Harvard Art Museum’s collections. Students will work from the beginning of the semester toward a final project consisting of mounting their own (virtual) exhibition of East Asian art.

Note: This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts B.

Aesthetic and Interpretive Understanding 45 (formerly Foreign Cultures 72). Art and Politics in Russia and Eastern Europe

Catalog Number: 5581

Svetlana Boym (Slavic Languages and Literatures; Comparative Literature)

Half course (fall term). Tu., 2–4, and a weekly section to be arranged. EXAM GROUP: 16, 17

The course examines the relationship between art and politics in twentieth century Russia and Eastern Europe through visual culture, literature, and film. We move chronologically from the Russian revolution and the period of artistic experimentation to the art of Stalin’s era, Gulag and the Cold War, examining writer’s trials and dissent in Russia and Eastern Europe as well as the non-conformist art of the late twentieth century. Emphasis is placed on close analysis and aesthetic interpretation in a broader political and historical context. We read works by Malevich, Chagall, Eisenstein, Babel, Brodsky, Mandelstam, Mayakovsky, Havel, Kundera, Arendt, Vajda and Nabokov.

Note: This course fulfills the requirement that one of the eight General Education courses also



engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for either Foreign Cultures or Literature and Arts C, but not both.

Cross-listed courses that satisfy the Aesthetic and Interpretive Understanding requirement. Some of these courses may have prerequisites or assume familiarity with the subject matter.

[African and African American Studies 182. R & B, Soul, and Funk]
 [Culture and Belief 12. For the Love of God and His Prophet: Religion, Literature, and the Arts in Muslim Cultures]
 [Culture and Belief 28. Hindu Worlds of Art and Culture]
[Culture and Belief 40 \(formerly Foreign Cultures 67\). Popular Culture and Modern China](#)
[English 110 \(formerly *Humanities 10\). An Introductory Humanities Colloquium](#)
[English 151. The 19th-Century Novel](#)
[English 157. The Classic Phase of the Novel](#)
[*English 159. The Reflection of Reality: Novels of the 19th and 20th-Century](#)
 [English 165. Proust, Joyce, Woolf: Aestheticism and Modernism]
[English 172d. The Nineteenth-Century American Novel](#)
[English 178x. The American Novel: Dreiser to the Present](#)
[English 196. Literature of Migration and Ethnicity: The Case of the United States](#)
[English 198. Porgy and Bess - \(New Course\)](#)
 [French 132b. 20th-Century French Fiction II: The Experimental Model]
 [History of Art and Architecture 1. Landmarks of World Art & Architecture]
[History of Art and Architecture 10. The Western Tradition: Art Since the Renaissance](#)
[History of Art and Architecture 11. Landmarks of World Architecture](#)
 [History of Art and Architecture 12m. Monuments and Cities of the Islamic World: An Introduction]
 [History of Art and Architecture 172w. American Art and Modernity, 1865–1965]
[Literature 10 \(formerly Aesthetic and Interpretive Understanding 18\). Writing Across Cultures: Literatures of the World \(to 1750\)](#)
[Literature 101 \(formerly Literature 11\). Writing Across Cultures: Literatures of the World \(from 1750 to the present\)](#)
[Literature and Arts A-16. Lives Ruined by Literature: The Theme of Reading in the Novel](#)
[Literature and Arts B-49. Modernisms 1865–1968](#)
[Medieval Studies 107. Authority and Invention: Medieval Art and Architecture](#)
[Music 1a. Introduction to Western Music from the Middle Ages to Mozart](#)
[Music 1b. Introduction to Western Music from Beethoven to the Present](#)
[Music 2. Foundations of Tonal Music I](#)
 [Music 190gw (formerly Music 190rs). Topics in World Music: Proseminar]
[Music 194gs. Special Topics: Proseminar](#)
 [Scandinavian 150. The Vikings and the Nordic Heroic Tradition]
 [Slavic 148. Strange Russian Writers]

Culture and Belief

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION



The aim of courses in the Culture and Belief category is to develop an understanding of and appreciation for the ways that social, political, religious, economic, and historical conditions shape the production and reception of ideas and works of art, either within or across cultural boundaries. Students in these courses examine how cultures and beliefs affect the identities of individuals and communities. Courses in this category draw connections between the material covered in the course and cultural issues of current concern or interest.

Culture and Belief

[Culture and Belief 11. Medicine and the Body in East Asia and in Europe]

Catalog Number: 8736

Shigehisa Kuriyama (East Asian Languages and Civilizations)

Half course (fall term). M., W., at 11, and a 90-minute weekly section to be arranged.

Comparative historical exploration of the striking differences and unexpected similarities between traditional conceptions of the body in East Asian and European medicine; the evolution of beliefs within medical traditions; the relationship between traditional medicine and contemporary experience.

Note: Expected to be given in 2011–12. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Historical Study A.

[Culture and Belief 12. For the Love of God and His Prophet: Religion, Literature, and the Arts in Muslim Cultures]

Catalog Number: 7027

Ali S. Asani (Near Eastern Languages and Civilizations; Study of Religion)

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

The course surveys the literary and artistic dimensions of the devotional life of the world's Muslim communities, focusing on the role of literature and the arts (poetry, music, architecture, calligraphy, etc.) as expressions of piety and socio-political critique. An important aim of the course is to explore the relationships between religion, literature, and the arts in a variety of historical and cultural contexts in the Middle East, sub-Saharan Africa, South Asia, Europe, and America.

Note: Expected to be given in 2011–12. No prior knowledge of Islam required. Offered jointly with the Divinity School as 3627. This course, when taken for a letter grade, meets the General Education requirement for either Culture and Belief or Aesthetic and Interpretive Understanding, but not both. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade meets the Core area requirement for either Foreign Cultures or Literature and Arts C, but not both.

Culture and Belief 13. The Contested Bible: The Sacred-Secular Dance

Catalog Number: 9458

Jay M. Harris (Near Eastern Languages and Civilizations)

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

A short history of the Bible. Questions addressed include how the Bible became a book, and how



that book became sacred; the advantages and burdens of a sacred text; Jewish-Christian disputations; how interpretive efforts helped create and reinforce powerful elites; how that text became the object of criticism; and how the Bible fared after the rise of criticism.

Note: Expected to be omitted in 2011–12. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts C.

[Culture and Belief 14. Human Being and the Sacred in the History of the West]

Catalog Number: 4605

Sean D. Kelly (Philosophy)

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

What stand should we take on our lives, our activity, and who we are to be? Traditionally religion has guided us, but many argue that in our secular age it can no longer play that role. We approach these questions by considering the history of the understanding of human being and the sacred in the West. Readings chosen from among Homer, the Bible, Aeschylus, Virgil, Augustine, Dante, Luther, Shakespeare, Milton, Pascal, Nietzsche, Melville, and others.

Note: Expected to be given in 2012–13. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Moral Reasoning.

[Culture and Belief 15. The Presence of the Past]

Catalog Number: 7544

Julie A. Buckler (Slavic Languages and Literatures)

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

Explores how material artifacts and physical markers of the past help create contemporary cultural landscapes and how societies variously construct and employ “a usable past.” Examples from United States, post-Soviet sphere, Europe and postcolonial states illustrate the workings of cultural politics, collective memory, museums, monuments, memorials, souvenirs, memorabilia, and commemorative practices. Literary texts, artworks, and film suggest diverse cultural meanings of the past as presence.

Note: Expected to be given in 2011–12. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts C.

Culture and Belief 16 (formerly Folklore and Mythology 100). Performance, Tradition and Cultural Studies: An Introduction to Folklore and Mythology

Catalog Number: 6753

Stephen A. Mitchell (Germanic Languages and Literatures; Folklore and Mythology)

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

Examines major forms of folklore (e.g., myths, legends, epics, beliefs, rituals, festivals) and the theoretical approaches used in their study. Analyzes how folklore shapes national, regional, and ethnic identities, as well as daily life; considers the function of folklore within the groups that perform and use it, employing materials drawn from a wide range of areas (e.g., South Slavic oral epics, American occupational lore, Northern European ballads, witchcraft in Africa and America, Cajun Mardi Gras).

Note: Required of Concentrators and for the Secondary Field in Folklore and Mythology. This



course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts C.

Culture and Belief 17 (formerly Historical Studies B-06). Institutional Violence and Public Spectacle: The Case of the Roman Games

Catalog Number: 2603

Kathleen M. Coleman (The Classics)

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

Gladiatorial combat, beast fights, staged hunts, mock naval battles, and exposure of criminals to wild animals were defining features of the culture of ancient Rome. Examining texts and images from across the Roman world, this course seeks to identify and probe the values, attitudes, and social, political, and economic factors that contributed to the popularity of institutionalized violence as public entertainment for six hundred years from the Punic Wars until the Christianization of the Empire.

Note: Expected to be omitted in 2011–12. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Historical Study B.

Culture and Belief 19 (formerly Foreign Cultures 70). Understanding Islam and Contemporary Muslim Societies

Catalog Number: 1065

Ali Asani (Near Eastern Languages and Civilizations; Study of Religion)

Half course (spring term). T., Th., 11:30-1, and a weekly section to be arranged.

Offers an introductory survey of the fundamental concepts of the Islamic faith and devotional practices of Muslim societies around the world. Focuses on developing an understanding of the diversity of Muslim religious worldviews and the manner in which they have been shaped by the political, social and cultural contexts in which Muslims live in various parts of the world, particularly in the modern period. Briefly considers the contemporary situation of Muslims as a religious and racial minority in Europe and the US.

Note: Expected to be omitted in 2011–12. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for either Foreign Cultures or Historical Study A, but not both.

Culture and Belief 20 (formerly Historical Study A-27). Reason and Faith in the West

Catalog Number: 8149

Ann M. Blair (History)

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

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



Note: Expected to be omitted in 2011–12. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Historical Study A.

Culture and Belief 21 (formerly Foreign Cultures 93). Pathways through the Andes—Culture, History, and Beliefs in Andean South America

Catalog Number: 2073

Gary Urton (Anthropology) and Thomas B. F. Cummins (History of Art and Architecture)
Half course (spring term). Tu., Th., 1–2:30, and a weekly section to be arranged. EXAM GROUP: 15, 16

This course explores the arts and cultures of Andean South America from the Pre-Columbian through Colonial periods. Emphasis is on the place of objects—textiles, ceramics, sculptures, and books—in the construction of meanings, identities and values as these changed over time. Readings are drawn from archaeology, ethnohistory, ethnology, art history and original sources. Students will work with Pre-Columbian and Colonial Andean artifacts in the collections of the Peabody Museum.

Note: This course, when taken for a letter grade, meets the General Education requirement for either Culture and Belief or Societies of the World, but not both. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Foreign Cultures.

Culture and Belief 22. The Heroic and the Anti-Heroic in Classical Greek Civilization

Catalog Number: 3915

Gregory Nagy (The Classics; Comparative Literature)

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

The readings, all in English translation, are the Homeric Iliad and Odyssey, seven tragedies (Aeschylus' Oresteia Trilogy, Sophocles' two Oedipus dramas, and Euripides' Hippolytus and The Bacchic Women), and two dialogues of Plato (the Apology and the Phaedo, both centering on the last days of Socrates); also, selections from the New Testament, especially from the Gospel according to Mark, and from the dialogue On Heroes by an eminent thinker in the "second sophistic" movement, Philostratus

Note: Students who have taken Literature and Arts C-14 may not take this course for credit. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts C.

[Culture and Belief 23 (formerly Literature and Arts C-70). From the Hebrew Bible to Judaism, From the Old Testament to Christianity]

Catalog Number: 5275

Shaye J.d. Cohen (Near Eastern Languages and Civilizations)

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

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



temple, synagogue, church; the Oral Torah and the Logos; sin and righteousness; messiah and redemption.

Note: Expected to be given in 2011–12. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts C.

[Culture and Belief 24. Gregorian Chants]

Catalog Number: 24218

Thomas Forrest Kelly (Music)

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

A study of the intricate mechanisms of the medieval liturgy, and the beauty of its expression in song. The texts are those of Gregorian chant; students will learn to sing, memorize, teach, and compose chant, as was done in the early middle ages. The course will study the layers of development, stylistic, cultural, and theological, and will use the resources of the Houghton Library. No previous experience or ability to read music is expected.

Note: Expected to be given in 2011–12. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts B.

[Culture and Belief 25 (formerly Religion 70). Studying Buddhism, Across Place and Time]

Catalog Number: 1316

Janet Gyatso (Harvard Divinity School)

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

A critical introduction to key ideas, values, people and practices in Buddhist traditions. The course offers a chance to explore Buddhism's distinctive doctrines about human experience, to appreciate the richness of its disciplinary and meditative practices, and to read its best literary gems. It highlights the way that Buddhism shifted as it spread across Asia and adapted to new cultural contexts, a process that still continues, now across the world. This allows us to study both the historical contributions of Buddhism to the philosophies and self-cultivation traditions of Asia, and the new ways it serves as a global human heritage today.

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 3830. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Foreign Cultures.

[Culture and Belief 26 (formerly Foreign Cultures 81). The Culture of Everyday Life in China]

Catalog Number: 8733

Peter K. Bol (East Asian Languages and Civilizations) and Michael A. Szonyi (East Asian Languages and Civilizations)

Half course (spring term). Tu., Th., at 10, and a weekly two-hour section to be arranged.

An inquiry into social and cultural life in China, past and present, through an exploration of the patterns of everyday life over the last thousand years in a single region. Uses writings from local women and men in the past, interviews with their descendants today, the ancestral halls and genealogies of multi-generational families, shrines and temples of local gods, and extensive photo documentation as sources for understanding how life was experienced by the inhabitants



of a community, farmers and scholars alike, and how that community was related to the larger world.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the General Education requirement for either Culture and Belief or Societies of the World, but not both. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Foreign Cultures.

Culture and Belief 27 (formerly Jewish Studies 55). Among the Nations: Jewish History in Pagan, Christian and Muslim Context

Catalog Number: 2338

Rachel L. Greenblatt (Near Eastern Languages and Civilizations)

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

Can we trace an “authentic” Jewish identity through history, as distinct from many “cultures” of Jews in the multitude of times and places in which they have lived? This course provides an overview of major trends in Jewish civilization from biblical times through the early modern era (to approximately the 17th century), with this and related questions in mind, by engaging in close readings of traditional Jewish sources on the one hand and seeking contextual understandings of Jews and Judaism within various non-Jewish settings on the other.

Note: Expected to be omitted in 2011–12. Required of all secondary concentrators in Jewish Studies, unless excused by the DUS. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts C.

[Culture and Belief 28. Hindu Worlds of Art and Culture]

Catalog Number: 24091

Diana L. Eck (Study of Religion)

Half course (spring term). Tu., Th., at 11, and a weekly section to be arranged.

An exploration of the narratives and arts of the Hindu tradition, considering the great gods – Vishnu, Krishna, Shiva, and Devi – that give expression to a profound vision of the world, the images through which the gods are envisioned, the temples and pilgrimage places where they are worshipped, and the rituals and festivals that are part of Hindu life. Readings include the Ramayana, the Bhagavad Gita, the Gita Govinda, the Shiva Purana, and the Devi Mahatmya.

Note: Expected to be given in 2011–12. Students who have taken Literature and Arts C-18 may not take this course for credit. This course, when taken for a letter grade, meets the General Education requirement for either Culture and Belief or Aesthetic and Interpretive Understanding, but not both. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for either Literature and Arts C or Foreign Cultures, but not both.

Culture and Belief 29 (formerly Humanities 12). “Strange Mutations”: Wonder, Faith, Skepticism, and Disbelief in Western Antiquity and the Renaissance

Catalog Number: 9725

Christopher D. Johnson (Comparative Literature)

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



12

How does metamorphosis encourage belief and disbelief? This course examines the experience of change and transformation as represented by major writers in the Western literary, philosophic, and theological traditions. We will explore the diverse meanings given to metamorphosis in antiquity and consider how and why such meanings are remade in the Renaissance. Authors include Sappho, Homer, Plato, Ovid, Augustine, Montaigne, Shakespeare, Cervantes, and Descartes.

Note: Expected to be omitted in 2011–12. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

[Culture and Belief 30. Photography and Society]

Catalog Number: 5649

Robin E. Kelsey (History of Art and Architecture)

Half course (fall term). M., W., at 11, and a weekly section to be arranged.

Modern society is unthinkable without the photograph, and yet we rarely have occasion to ponder what photographs are, what they do, and how they do it. In this course, we will consider photography from its origins to the digital era, paying particular attention to its role as an engine of belief in various cultural domains. Our goal will be to understand more incisively how photographs define and shape relations between their subjects and their viewers.

Note: Expected to be given in 2011–12. Students who have taken Literature and Arts B-24 may not take this course for credit. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts B.

[Culture and Belief 31 (formerly Philosophy 19). Saints, Heretics, and Atheists: An Historical Introduction to the Philosophy of Religion]

Catalog Number: 6837

Jeffrey K. McDonough (Philosophy)

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

An introduction to the history of intellectual reflection on religion and belief in the western tradition. We will read roughly a half dozen perennial works drawn from authors ranging from St. Augustine of Hippo to Friedrich Nietzsche. Along the way, we will think, discuss, and write about topics such as the nature of sin, the origin of evil, the attributes of God, the argument from design, and the relationship between religion and morality.

Note: Expected to be given in 2011–12. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Historical Study A.

[Culture and Belief 32. Back Roads to Far Places: Literature of Journey and Quest]

Catalog Number: 39198

Stephanie A. Paulsell (Harvard Divinity School) and William A. Graham, Jr. (Harvard Divinity School; Near Eastern Languages and Civilizations)

Half course (spring term). Tu., Th., at 9, and a section on Wednesday.

Explores themes of journey and quest in world literature and the interplay between their literary and religious dimensions. Considers the relationship between physical and interior journeys,



home and exile, and bewilderment and certainty. Emphasis will be on careful reading of, and thoughtful essays on, texts such as Gilgamesh, the Bible, Quest of the Holy Grail, Walden, and works by Tolkien, Dante, Teresa of Avila, Ashvaghosha, Hesse, Basho, Endo, Charles Johnson, Virginia Wolfe, and Cormac McCarthy.

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 2490. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

Culture and Belief 33. Introduction to the Study of East Asian Religions

Catalog Number: 34911

James Robson (East Asian Languages and Civilizations)

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

This course provides an introduction to the study of East Asian religions. It covers the development of Buddhism, Daoism, Confucianism and Shinto. It is not a comprehensive survey, but is designed around major conceptual themes, such as ritual, image veneration, mysticism, meditation, death, and category formation in the study of religion. The emphasis throughout the course is on the hermeneutic difficulties attendant upon the study of religion in general, and East Asian religions in particular.

Note: Offered jointly with the Divinity School as 3010. This course, when taken for a letter grade, meets the General Education requirement for either Culture and Belief or Societies of the World, but not both. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts C.

[Culture and Belief 34 (formerly Historical Study A-87). Madness and Medicine: Themes in the History of Psychiatry]

Catalog Number: 6692

Anne Harrington (History of Science)

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

Psychiatry is one of the most intellectually and socially complex and fraught fields of medicine today, and history offers one powerful strategy for better understanding why. Topics covered in this course include the invention of the mental asylum, early efforts to understand mental disorders as disorders of the brain or biochemistry, the rise of psychoanalysis, psychiatry and war, the rise of psychopharmacology, the making of the DSM, anti-psychiatry, and more.

Note: Expected to be given in 2011–12. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Historical Study A.

[Culture and Belief 35. Classical Mythology]

Catalog Number: 69871

Francesca Schironi (The Classics)

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

The myths of the Greeks and Romans: creation myths, Greek gods, Greek heroes and Roman myths. Their relationship to the mythology of neighboring people (Hittites, Babylonians,



Hebrews). Their importance for Greek and Roman societies and cultures. Their reception in literature and art from the ancient world to 21st century, and their importance as a foundation of our own modern culture and society. The course will be focused on the analysis of primary sources (read in translation) and works of art (literature, painting, sculpture, movies); ancient mythology will also be studied under the light of modern theories on mythology.

Note: Expected to be given in 2011–12. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts C.

[Culture and Belief 36. Religion and Its Future]

Catalog Number: 98503

Francis Fiorenza (Harvard Divinity School) and Roberto Mangabeira Unger (Harvard Law School)

Half course (spring term). Tu., 1–3, and a weekly section to be arranged.

An attempt to grasp what has become, and can now become, of religion in general, and of Christianity in particular, both as a faith and as an inspiration to some of the transformative political and cultural projects that have shaken the world up over the last two centuries. The course is not a survey or an introduction. It is a sustained philosophical and theological argument about the feasible and desirable transformation of our religious experience. Our central concern is to explore the distinctive character, the power, the limitations, and the future of the beliefs that lie at the core of Christianity (and, more generally, of the Near Eastern salvation religions) as well as of the secular beliefs most closely associated with them: the liberal and socialist ideologies of human emancipation and the worldwide popular romantic culture. We shall ask ourselves what could and should become of these beliefs, what could and should be the next revolution in the religious affairs of humanity. As we address the program of this revolution, we shall try to understand and to overcome the widespread impulse to split the difference between believing and not believing: the sentimental attitude to religion. We shall discuss how to undermine this attitude and to replace it by a struggle over the content and future of faith. Readings from the classic literature of philosophy, theology, and social theory are intended to equip students with means to engage the argument.

Note: Expected to be given in 2012–13. Offered jointly with the Divinity School as 2554 and the Law School. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Historical Study A.

Culture and Belief 37 (formerly Studies of Women, Gender, and Sexuality 1122). The Romance: From Jane Austen to Chick Lit

Catalog Number: 8181

Linda Schlossberg (Studies of Women, Gender, and Sexuality)

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

A critical investigation of the genre's enduring popularity, beginning with Austen's satirical *Northanger Abbey* and three novels credited with providing narrative templates for contemporary romances (*Pride and Prejudice*, *Jane Eyre*, *Wuthering Heights*). We will then read twentieth-century revisions of these works (*Rebecca*, *Wide Sargasso Sea*, *Bridget Jones's Diary*). Topics: the female writer and reader/consumer of literature; moral warnings against romance, "sensation," and titillation; the commodification of desire; Harlequins; the relationship between



high culture and low.

Note: This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

[Culture and Belief 38 (formerly Literature and Arts C-28). Icon, Ritual, Text: Reading the Culture of Medieval Rus']

Catalog Number: 2798

Michael S. Flier (Slavic Languages and Literatures)

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

An introduction to the culture of the medieval East Slavs (precursors of the Russians, Ukrainians, and Belarusians) as viewed through the prism of Eastern Orthodox belief. The course examines icon and fresco painting, architecture, ritual, music, folklore, and literature in historical and social context for clues to the evolution of an apocalyptic worldview, extending from the Christianization of Rus' in the 10th century, through the reign of Ivan the Terrible, to the advent of Peter the Great at the end of the 17th century.

Note: Expected to be given in 2011–12. All readings in English. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts C.

Culture and Belief 39 (formerly Literature and Arts A-93). The Hebrew Bible

Catalog Number: 9783

Shaye J.d. Cohen (Near Eastern Languages and Civilizations)

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

This course is a survey of the major books and ideas of the Hebrew Bible (commonly called the Old Testament). The course will also treat the historical contexts in which the Bible emerged, and the Bible's role as canonical scripture in Judaism and Christianity.

Note: All readings in translation. No prior knowledge of the subject is assumed. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

Culture and Belief 40 (formerly Foreign Cultures 67). Popular Culture and Modern China

Catalog Number: 8730

David Der-wei Wang (East Asian Languages and Civilizations)

Half course (fall term). M., W., at 11, and a weekly section to be arranged. Four additional sessions to be arranged for screening of films. EXAM GROUP: 4

This course examines "popular culture" as a modern, transnational phenomenon and explores its manifestation in Chinese communities (in People's Republic of China, Taiwan, Hong Kong, Southeast Asia and North America) and beyond. From pulp fiction to film, from "Yellow Music" to "Model Theater", from animations to internet games, the course looks into how China became modern by participating in the global circulation of media forms, and how China helps in her own way enrich the theory and practice of "popular culture".

Note: This course, when taken for a letter grade, meets the General Education requirement for either Culture and Belief or Aesthetic and Interpretive Understanding, but not both. This course,



when taken for a letter grade, meets the Core area requirement for either Foreign Cultures or Literature and Arts C, but not both.

Culture and Belief 41 (formerly Historical Study A-67). Gender, Islam, and Nation in the Middle East and North Africa

Catalog Number: 0352

Afsaneh Najmabadi (History; Studies of Women, Gender, and Sexuality)

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

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

Note: This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for either Foreign Cultures or Historical Study A, but not both.

Culture and Belief 42 (formerly Foreign Cultures 92). Communism and the Politics of Culture: Czechoslovakia from the Prague Spring to the Velvet Revolution

Catalog Number: 5237

Jonathan H. Bolton (Slavic Languages and Literatures)

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

Examines how the intense political pressures of invasion, occupation, and revolution shape a country’s intellectual life and are shaped by it in turn, looking at Czechoslovakia’s literature, drama, film, and music from the 1948 Communist takeover, through the Prague Spring and Soviet invasion of 1968, to the 1989 Velvet Revolution, a hallmark of the peaceful overthrow of Communism in Central Europe. We consider works by Milan Kundera, Bohumil Hrabal, Vaclav Havel; films by Milos Forman, Vera Chytilova, Jiri Menzel; theories of political dissident and the “anti-politics” of Charter 77; and questions of historical memory in contemporary Prague.

Note: Expected to be omitted in 2011–12. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Foreign Cultures.

Culture and Belief 43. The World of Yiddish - (New Course)

Catalog Number: 94372

Ruth R. Wisse and Yuri Vedenyapin (Near Eastern Languages and Civilizations)

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

Explores the culture and way of life of what was, before World War II, the largest Jewish community in the world, whose descendants still constitute the majority of American Jews. Its common language, Yiddish, spread with its speakers from Western to Eastern Europe from the 14th century onward. Through interdisciplinary approach, including history, literature, music, popular culture, course examines Yiddish as vehicle of Jewish tradition and modernization. Often associated with humor, its speakers were main victims of Hitler’s Final Solution. We will try to identify paradoxical features of Yiddish culture that may account for its exceptional fate.



Note: Expected to be omitted in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for either Foreign Cultures or Literature and Arts C, but not both.

Culture and Belief 44. The Cradle of History: Ancient Historians and their Afterlives - (New Course)

Catalog Number: 64822

Christopher B. Krebs (The Classics)

Half course (spring term). M., W., at 12, and a section on Friday at 12. EXAM GROUP: 5
 2500 years ago a Greek writer chose the word “history” to characterize his account of the Persian Wars. Why? We still use the word today; but what does it mean to us, and how has that meaning developed from the works of our western forebears? This course offers a lively introduction to the ancient historians’ works, lives, and afterlives with particular attention to the nature of historical truth, changing ideas of history in their cultural contexts, the role and relevance of history in ancient and modern life, and the cultural legacy of the Greek and Roman world. Readings from Herodotus, Thucydides, Livy, Tacitus, Machiavelli, Hobbes, Nietzsche.

Note: Expected to be omitted in 2011–12. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts C.

Culture and Belief 46. Music, Debate, and Islam - (New Course)

Catalog Number: 87585

Richard K. Wolf (Music)

Half course (fall term). Tu., 1–3, and a weekly section to be arranged. EXAM GROUP: 15, 16
 This course focuses on the arts of sound practiced by Muslims and on debates associated with “music” in a range of Islamic contexts. The purposes are to understand from a musically informed perspective a set of interrelated musical practices that cut across regions (especially South and West Asia); and how different ideologies, philosophies, and texts—associated with Islam locally, nationally, and internationally—shape local understandings and constructions of sound. The content of classes will include lectures, discussions, live musical demonstrations and careful review of audio-visual materials. Students will also have the opportunity to learn to play or sing Persian music.

Note: This course, when taken for a letter grade, meets the General Education requirement for either Culture and Belief or Aesthetic and Interpretive Understanding, but not both. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts B.

Cross-listed courses that satisfy the Culture and Belief requirement. Some of these courses may have prerequisites or assume familiarity with the subject matter.

[Aesthetic and Interpretive Understanding 17 (formerly Literature and Arts B-78).

Soundscapes: Exploring Music in a Changing World]

[Aesthetic and Interpretive Understanding 27 (formerly Literature and Arts A-17).

Childhood: Its History, Philosophy, and Literature]

Aesthetic and Interpretive Understanding 41 (formerly Literature and Arts C-30). How and What Russia Learned to Read: The Rise of Russian Literary Culture

Aesthetic and Interpretive Understanding 42. Literature and Revolution: Great Books in Moments of Cultural Transformation



[African and African American Studies 182. R & B, Soul, and Funk]
 [Ancient Near East 104. Babylon]
 [Anthropology 1795. The Politics of Language and Identity in Latin America]
[*Computer Science 105 \(formerly Computer Science 199r\). Privacy and Technology](#)
[Economics 1776. Religion and the Rise of Capitalism](#)
[Folklore and Mythology 114. Embodied Expression/Expressive Body: Dance in Cultural Context](#)
[Folklore and Mythology 126. Continuing Oral Traditions in Indigenous Communities](#)
 [*History 86a (formerly *History 1828). Christianity and Chinese Society]
 [History 1080 (formerly History 1150). The Jews in Muslim and Christian Spain]
[History 1445. Science and Religion in American Public Culture - \(New Course\)](#)
[History of Science 100. Knowing the World: An Introduction to the History of Science](#)
[Jewish Studies 135. Jewish-Arab Encounters: the Classical Age](#)
[*Religion 1820 \(formerly *Religion 1585\). Muslim Societies in South Asia: Religion, Culture, and Identity](#)
[Science of the Physical Universe 17 \(formerly Science A-41\). The Einstein Revolution](#)
 [Slavic 148. Strange Russian Writers]
[Societies of the World 30. Moctezuma's Mexico: Then and Now](#)
 [Societies of the World 33 (formerly Foreign Cultures 84). Tokyo]
[Societies of the World 41 \(formerly History 1050\). Medieval Europe](#)
[Spanish 172. Barcelona and Modernity](#)
[United States in the World 27. Religion and American Society: Global Traditions in a Changing Culture](#)
[*United States in the World 32 \(formerly Religion 1007\). The World's Religions in Multicultural America: Case Studies in Religious Pluralism](#)
[United States in the World 33 \(formerly African and African American Studies 193\). Religion and Social Change in Black America](#)

Empirical and Mathematical Reasoning

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Courses in Empirical and Mathematical Reasoning teach the conceptual and theoretical tools used in reasoning and problem solving, such as statistics, probability, mathematics, logic, and decision theory. Students develop the ability to apply abstract principles and theories to concrete problems. They also learn how to make decisions and draw inferences that involve the evaluation of data and evidence, and how to recognize when an issue cannot be settled on the basis of the available evidence. Students will become aware of the many mistakes that human beings are prone to making in their reasoning and come to understand how to avoid common pitfalls in inference-making.

Empirical and Mathematical Reasoning

[Empirical and Mathematical Reasoning 11. Making Sense: Language, Logic, and Communication](#)

Catalog Number: 37079

Bernhard Nickel (*Philosophy*), Gennaro Chierchia (*Linguistics*), and Stuart M. Shieber



(Harvard School of Engineering and Applied Sciences)

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

GROUP: 13, 14

What is meaning, and how do we use it to communicate? We address the first of these questions via the second, presenting an interdisciplinary approach to the study of human languages. We investigate language as the product of a natural algorithm, that is, a computational facility which grows spontaneously in our species and enables us to expose our thoughts and feelings. Our investigation uses formal models from logic, linguistics, and computer science. These models will also shed light on human nature and basic philosophical issues concerning language.

Note: Expected to be omitted in 2011–12. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Quantitative Reasoning.

Empirical and Mathematical Reasoning 12 (formerly Quantitative Reasoning 48). Bits

Catalog Number: 2793

Harry R. Lewis (Harvard School of Engineering and Applied Sciences)

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

GROUP: 12, 13

How can vast quantities of information—movies, text, voices, etc.—be moved instantaneously from place to place, reproduced in unlimited perfect copies, stored forever, and searched to discover needles in haystacks, all at virtually no cost? The secret life of “bits”—the zeroes and ones of which all digital documents and communications are comprised. We develop the mathematics of digital information using only high school algebra, and explore the human consequences of those digital principles: how they challenge our understanding of secrecy, privacy, security, free speech, and property, and pose dilemmas for free societies.

Note: This course, when taken for a letter grade, meets the Core area requirement for Quantitative Reasoning.

[Empirical and Mathematical Reasoning 13 (formerly Social Analysis 46). Analyzing Politics]

Catalog Number: 3544

Kenneth A. Shepsle (Government)

Half course (fall term). Tu., Th., at 11, and a weekly section to be arranged.

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

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Social Analysis.

Empirical and Mathematical Reasoning 14. Fat Chance

Catalog Number: 26591



Joseph D. Harris (Mathematics) and Benedict H. Gross (Mathematics)

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

This course has three objectives: to learn to calculate probabilities precisely, when we can; to learn how to estimate them, when we can't; and to say exactly what we can and can't infer from these calculations. The course is not mathematically demanding—we assume no mathematical background beyond high-school algebra—but the goal is serious: given that we're asked everyday to make consequential decisions on the basis of incomplete knowledge, an understanding of basic probability is an essential tool for life.

Note: This course, when taken for a letter grade, meets the Core area requirement for Quantitative Reasoning.

Empirical and Mathematical Reasoning 15 (formerly Quantitative Reasoning 50). Medical Detectives

Catalog Number: 5707

Karin B. Michels (Harvard Medical School; Harvard School of Public Health)

Half course (fall term). M., W., 2:30–4, and a weekly section to be arranged. EXAM GROUP: 7, 8

Why is there confusion in the scientific community as to whether butter or margarine is worse for your health? How do epidemiologists find out whether cell phone use increases your risk for brain cancer? What is your risk of contracting diabetes? Discover how researchers draw on quantitative skills to detect causes of acute disease outbreaks and chronic diseases. This course introduces the techniques and methods for empirically based analyses, decisions, and actions in the context of current public health problems.

Note: This course, when taken for a letter grade, meets the Core area requirement for Quantitative Reasoning.

Empirical and Mathematical Reasoning 16 (formerly Statistics 105). Real-Life Statistics: Your Chance for Happiness (or Misery)

Catalog Number: 8782

Yves Rene Chretien (Statistics)

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

Discover an appreciation of statistical principles and reasoning via “Real-Life Modules” that can make you rich or poor (financial investments), loved or lonely (on-line dating), healthy or ill (clinical trials), satisfied or frustrated (chocolate/wine tasting) and more. Designed for those for whom this may be their only statistics course as well as those who want to be inspired to learn more from a subject that intimately affects their chance for happiness (or misery) in life.

Note: This course, when taken for a letter grade, meets the Core area requirement for Quantitative Reasoning.

Empirical and Mathematical Reasoning 17 (formerly Quantitative Reasoning 22). Deductive Logic

Catalog Number: 2508

Peter Koellner (Philosophy)

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: This course, when taken for a letter grade, meets the Core area requirement for Quantitative Reasoning.

Empirical and Mathematical Reasoning 18. What are the odds?

Catalog Number: 54305

Edward J. Hall (Philosophy) and Andrew W. Murray (Molecular and Chemical Biology)
Half course (spring term). M., W., F., at 11, and a weekly section to be arranged. EXAM GROUP: 4

There is the mathematics behind statistics, and then there are the concepts - without a proper grasp of which you will all too likely fall prey to confusion, error, and even outright deception. This course will teach you a bit about the math, and a lot about the concepts. Take it and achieve enlightenment about such topics as the difference between probability and risk, the nature of statistical inference, and the connections between correlation and causation.

Note: This course, when taken for a letter grade, meets the Core area requirement for Quantitative Reasoning.

[Empirical and Mathematical Reasoning 19 (formerly Quantitative Reasoning 46). The Visual Display of Information: The Art of Numbers]

Catalog Number: 9479

Alyssa A. Goodman (Astronomy)
Half course (spring term). Tu., Th., 1–2:30, and a weekly section to be arranged.

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

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Quantitative Reasoning.

Empirical and Mathematical Reasoning 20 (formerly Quantitative Reasoning 24). The Business and Politics of Health

Catalog Number: 4667

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

Health and medical care pervade every aspect of our lives. This course uses quantitative methods



(graphical analysis, algebra, data analysis) to examine issues related to health, disease, and systems for delivering health care. Topics to be covered include differences in health between rich and poor countries, differences in types of medical care and who receives it, and the political context for reforming health care policy. Techniques for analysis will be developed and demonstrated in class and section. The course uses examples from a variety of international settings, but focuses mainly on health and health care in the US.

Note: This course, when taken for a letter grade, meets the General Education requirement for either Empirical and Mathematical Reasoning or United States in the World, but not both. This course, when taken for a letter grade, meets the Core area requirement for Quantitative Reasoning.

Cross-listed courses that satisfy the Empirical and Mathematical Reasoning Requirement. Some of these courses may have prerequisites or assume familiarity with the subject matter.

[Anthropology 1010. The Fundamentals of Archaeological Methods & Reasoning](#)
[Applied Mathematics 21a. Mathematical Methods in the Sciences](#)
[Applied Mathematics 21b. Mathematical Methods in the Sciences](#)
[Applied Mathematics 101. Statistical Inference for Scientists and Engineers](#)
[Computer Science 1. Great Ideas in Computer Science](#)
[Computer Science 50. Introduction to Computer Science I](#)
[Computer Science 171. Visualization](#)
[Economics 10 \(formerly Social Analysis 10\). Principles of Economics](#)
[Economics 1010a. Microeconomic Theory](#)
[Economics 1010b. Macroeconomic Theory](#)
[Economics 1011a. Microeconomic Theory](#)
[Economics 1011b. Macroeconomic Theory](#)
[Economics 1123. Introduction to Econometrics](#)
[*Engineering Sciences 1. Introduction to Engineering Sciences](#)
[*Engineering Sciences 50. Introduction to Electrical Engineering](#)
[Government 50. Introduction to Political Science Research Methods](#)
[Mathematics Ma \(formerly Mathematics Xa\). Introduction to Functions and Calculus I](#)
[Mathematics Mb \(formerly Mathematics Xb\). Introduction to Functions and Calculus II](#)
[Mathematics 1a. Introduction to Calculus](#)
[Mathematics 1b. Calculus, Series, and Differential Equations](#)
[Mathematics 19a. Modeling and Differential Equations for the Life Sciences](#)
[Mathematics 19b. Linear Algebra, Probability, and Statistics for the Life Sciences](#)
[Mathematics 20. Algebra and Multivariable Mathematics for Social Sciences](#)
[Mathematics 21a. Multivariable Calculus](#)
[Mathematics 21b. Linear Algebra and Differential Equations](#)
[Mathematics 23a. Linear Algebra and Real Analysis I](#)
[Mathematics 23b. Linear Algebra and Real Analysis II](#)
[Mathematics 25a. Honors Linear Algebra and Real Analysis I](#)
[Mathematics 25b. Honors Linear Algebra and Real Analysis II](#)
[*Mathematics 55a. Honors Abstract Algebra](#)
[Mathematics 55b. Honors Real and Complex Analysis](#)
[Mathematics 101. Sets, Groups and Topology](#)



[Mathematics 154 \(formerly Mathematics 191\). Probability Theory](#)
[Physical Sciences 2. Mechanics, Elasticity, Fluids, and Diffusion](#)
[Physical Sciences 3. Electromagnetism, Circuits, Waves, Optics, and Imaging](#)
[Physics 11a. Mechanics](#)
[Physics 11b. Electricity, Magnetism, and Waves](#)
[Physics 15a. Introductory Mechanics and Relativity](#)
[Physics 15b. Introductory Electromagnetism](#)
[Physics 15c. Wave Phenomena](#)
[Physics 16. Mechanics and Special Relativity](#)
[Psychology 1900. Introduction to Statistics for the Behavioral Sciences](#)
[\[Science of the Physical Universe 18 \(formerly Science A-39\). Time\]](#)
[Science of the Physical Universe 26. Primitive Navigation - \(New Course\)](#)
[Societies of the World 24. Global Health Challenges: Complexities of Evidence-based Policy](#)
[*Sociology 156. Quantitative Methods in Sociology](#)
[Statistics 100. Introduction to Quantitative Methods for the Social Sciences and Humanities](#)
[Statistics 101. Introduction to Quantitative Methods for Psychology and the Behavioral Sciences](#)
[Statistics 104. Introduction to Quantitative Methods for Economics](#)

Ethical Reasoning

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Courses in Ethical Reasoning teach students to reason in a principled way about moral and political beliefs and practices, and to deliberate and assess claims for themselves about ethical issues. Students examine the competing conceptions and theories of ethical concepts such as the good life, obligation, rights, justice, and liberty with a focus on developing the ability to assess and weigh the reasons for and against adopting them to address concrete ethical dilemmas. Students in these courses may encounter a value system very different from their own that calls attention to their own ethical assumptions.

Ethical Reasoning

Ethical Reasoning 11. Human Rights: A Philosophical Introduction

Catalog Number: 6441

Mathias Risse (Harvard Kennedy School)

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

What are human rights? Why would individuals have such rights? How can rights be universal, and what rights are universal? How can human rights rhetoric be criticized? This course will approach these and related questions philosophically, but with an eye to international politics.

Note: This course, when taken for a letter grade, meets the Core area requirement for Moral Reasoning.

[Ethical Reasoning 12. Political Justice and Political Trials]

Catalog Number: 5064

Charles S. Maier (History)



Half course (fall term). W., 2–4, and a weekly section to be arranged.

Criminal trials have served throughout history to enforce revolutionary change, to impose conformity, or, alternatively, to advance democracy. Students examine trials in their historical and moral context to weigh such issues as who can prosecute; can crimes be defined after the fact; can punishing speech be justified? Cases include Socrates, Louis XVI, General Dyer, the Soviet purges, Nuremberg, Eichmann, American cold-war hearings, and today's international tribunals and truth commissions.

Note: Expected to be given in 2011–12. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Moral Reasoning.

[Ethical Reasoning 13 (formerly Moral Reasoning 56). Self, Freedom, and Existence]

Catalog Number: 6507

Richard Moran (Philosophy)

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

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 given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Moral Reasoning.

Ethical Reasoning 14 (formerly Moral Reasoning 33). Issues in Ethics

Catalog Number: 2255

Thomas M. Scanlon (Philosophy)

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

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

Note: This course, when taken for a letter grade, meets the Core area requirement for Moral Reasoning.

[Ethical Reasoning 15 (formerly Moral Reasoning 54). “If There is No God, All is Permitted:” Theism and Moral Reasoning]

Catalog Number: 1321

Jay M. Harris (Near Eastern Languages and Civilizations)

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

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



Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Moral Reasoning.

[Ethical Reasoning 16 (formerly Moral Reasoning 58). Slavery in Western Political Thought]

Catalog Number: 8892

Richard Tuck (Government)

Half course (spring term). Tu., Th., at 11, and a weekly section to be arranged.

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.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Moral Reasoning.

[Ethical Reasoning 17 (formerly Moral Reasoning 76). Comparative Religious Ethics]

Catalog Number: 7037

Anne E. Monius (Harvard Divinity School)

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

Predicated on the assumption that global concerns are manifest in highly particularized cultural and religious circumstances, this course seeks to understand Hindu, Buddhist, and Christian framings of and prospective solutions to the problem of communal violence in the modern world. Topics examined in each tradition include: conceptions of moral subjectivity, frameworks for moral education, close readings of novels that grapple with the moral challenges (especially new forms of violence) wrought by colonization and globalization, and explicitly religious responses to such violence in the work of Gandhi, Buddhist monastic communities in Sri Lanka, and Archbishop Desmond Tutu.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Moral Reasoning.

Ethical Reasoning 18 (formerly Moral Reasoning 78). Classical Chinese Ethical and Political Theory

Catalog Number: 9742

Michael J. Puett (East Asian Languages and Civilizations)

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

How should one make moral choices? What is the best way to live a moral life? How should the state be organized to best encourage proper human behavior? And what happens if the state comes to be formed as an empire? What are the proper moral ways to respond? Questions such as these were at the heart of classical Chinese philosophical debates. This course will be the study of how the classical Chinese thinkers wrestled with these questions and what responses they gave. As we will quickly see, the views that arose in China were among the most powerful and influential in human history. Regardless of whether one agrees with these views or not, they should be studied and taken seriously by anyone who cares about ethics and politics.



Note: Expected to be omitted in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Moral Reasoning.

[Ethical Reasoning 20 (formerly Humanities 11). Self, Serenity, and Vulnerability: East and West]

Catalog Number: 2401

Michael J. Puett (East Asian Languages and Civilizations) and Roberto Mangabeira Unger (Harvard Law School)

Half course (spring term). Th., 5–7 p.m., and a weekly section to be arranged.

This course is a comparative inquiry into certain forms of moral consciousness and their metaphysical assumptions in the high cultures of Eurasia. We organize discussion around a broad background concern as well as a focused foreground theme. The background concern is the meaning or meaninglessness of human life: comparison of some of the ways in which philosophy, religion, and art in the East and the West have dealt with the fear that our lives and the world itself may be meaningless. The foreground theme is the contrast between two answers to the question-how should I live my life? One answer, valuing serenity achieved through disengagement from illusion and vain striving, is: stay out of trouble. Another answer, prizing the acceptance of vulnerability for the sake of self-construction and self-transformation is: look for trouble. The second answer has come to play a major part in the moral and political projects that command attention throughout the world today. We seek to understand this second answer and to assess it in the light of speculative ideas that have been prominent in Eastern and Western thought. Conversely, we use our chosen theme to explore how Eastern and Western speculation have dealt with the limits of insight into what matters most. To these ends, we consider exemplary writings from several traditions: Chinese, South Asian, ancient Greek, and modern European.

Note: Expected to be given in 2012–13. Offered jointly with the Law School. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Moral Reasoning.

Ethical Reasoning 21 (formerly Moral Reasoning 66). Moral Reasoning about Social Protest

Catalog Number: 7778

Susanna C. Siegel (Philosophy)

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

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

Note: This course, when taken for a letter grade, meets the Core area requirement for Moral Reasoning.

Ethical Reasoning 22 (formerly Moral Reasoning 22). Justice

Catalog Number: 3753 Enrollment: Limited to 1000.



Michael J. Sandel (Government)

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

A critical analysis of selected classical and contemporary theories of justice, with discussion of present-day practical applications. Topics include affirmative action, income distribution, same-sex marriage, 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.

Note: Expected to be omitted in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Moral Reasoning.

[Ethical Reasoning 23 (formerly Moral Reasoning 82). Trust, Vision, and Doubt in Ethics, Politics, and Law]

Catalog Number: 4453

Scott Brewer (Harvard Law School)

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

This course explores the interplay of trust, vision, justification and doubt in ethical, political, and legal thought. It examines how some of the characteristic moral, political and legal faiths of the last few centuries have been transformed under the pressure of skepticism or of a crisis of faith. In this way, it introduces students to the problems and opportunities of reasoning in all the normative disciplines.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Moral Reasoning.

Ethical Reasoning 24. Bioethics

Catalog Number: 72195

Daniel I. Wikler (Harvard School of Public Health)

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

Bioethics is the study of ethical issues arising in efforts to maintain and restore health, and, more broadly, with charting humankind's future in an era of both technological advances and unmet need. We will try to reason our way through moral dilemmas that pit health against freedom, prevention against rescue, and the claims of those with competing needs when life itself hangs in the balance. The course will emphasize ethical issues involving health that arise at the global and population levels, particularly those involving peoples and regions with the greatest burden of disease.

Note: This course, when taken for a letter grade, meets the Core area requirement for Moral Reasoning.

Ethical Reasoning 26. The Ethics of Atheism: Marx, Nietzsche, Freud - (New Course)

Catalog Number: 12763

Peter J. Burgard (Germanic Languages and Literatures)

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

Examines the Western secular tradition through the work of three seminal figures whose critiques of religion—in social and political theory, philosophy, and psycho-analysis and



anthropology—are motivated by ethical concerns. Brief introductory readings of Kant, Hegel, and Feuerbach ground analysis of Marx's, Nietzsche's, and Freud's ethical atheism. Students do not develop or debate formulae for behavior, but rather become critically aware of ethical considerations that underlie actions and that are negotiated vis-à-vis prevailing moral codes.

Readings include *The German Ideology*, *The Communist Manifesto*, *The Gay Science*, *Beyond Good and Evil*, *On the Genealogy of Morals*, *The Anti-Christ*, *Three Essays on the Theory of Sexuality*, *Totem and Taboo*, *The Future of an Illusion*.

Note: Expected to be omitted in 2011–12. This course, when taken for a letter grade, meets the General Education requirement for either Ethical Reasoning or Culture and Belief, but not both. This course, when taken for a letter grade, meets the Core area requirement for Moral Reasoning.

Ethical Reasoning 27 (formerly Moral Reasoning 28). Ethics and International Relations

Catalog Number: 0642

Stanley Hoffmann (University Professor; Government) and J. Bryan Hehir (Harvard Kennedy School)

Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

The course explores the problem of morality in international relations. Starting from an overview of different theoretical perspectives concerning moral argumentation in international affairs, it proceeds to consider the ethical dimensions of more specific international issues such as the use of force, human rights, and distributive justice. Contemporary cases will be used when relevant.

Note: Expected to be omitted in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Moral Reasoning.

Ethical Reasoning 28. Moral Inquiry in the Novels of Tolstoy and Dostoevsky - (New Course)

Catalog Number: 27743

Justin Weir (Slavic Languages and Literatures)

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

This course considers how Tolstoy and Dostoevsky take up moral inquiry in their fiction, introduces students to philosophical texts that informed their major fiction, and asks why the novel as a literary genre may be a good forum for the discussion of ethics. We will read Tolstoy's *Anna Karenina*, Dostoevsky's *Notes from Underground* and *The Brothers Karamazov*, as well as selected texts from Rousseau, Schopenhauer, Nietzsche, and others.

Note: This course, when taken for a letter grade, meets the Core area requirement for Moral Reasoning.

Ethical Reasoning 29. Social Theory, the Humanities, and Philosophy Now - (New Course)

Catalog Number: 21034

Michael J. Puett (East Asian Languages and Civilizations; Study of Religion) and Roberto Mangabeira Unger (Harvard Law School)

Half course (spring term). Th., 5-7 p.m. EXAM GROUP: 18

A sustained discussion of the obstacles and the opportunities that the established traditions of Western philosophy, social theory and the humanities present to those who see time as real, history as open, novelty as possible, and social and cultural transformation as imperative. The central theme is how thought deals with the creation of the new. Special attention to three European philosophers -- Hegel, Marx, and Bergson, as well as to those strands in contemporary



philosophy and social thought that bear most closely on our concerns. No prerequisites other than willingness to consider a wide range of problems, materials, and ideas.

Note: Offered jointly with the Law School as LAW-46211A. This course, when taken for a letter grade, meets the Core area requirement for Moral Reasoning.

Cross-listed courses that satisfy the Ethical Reasoning Requirement. Some of these courses may have prerequisites or assume familiarity with the subject matter.

[Government 10. Foundations of Political Theory](#)

[Government 1061. The History of Modern Political Philosophy](#)

[Government 1093. Ethics, Biotechnology, and the Future of Human Nature]

[Life Sciences 60 (formerly MCB 60). Ethics, Biotechnology, and the Future of Human Nature]

[Philosophy 168. Kant's Ethical Theory]

[Philosophy 172. The History of Modern Moral Philosophy](#)

[Philosophy 173. Metaethics]

[Philosophy 174. Recent Ethical Theory]

[Philosophy 178. Equality and Democracy](#)

[Philosophy 179. Race and Social Justice](#)

[Religion 56. Existentialism and Religion](#)

[United States in the World 20 \(formerly Moral Reasoning 74\). The Theory and Practice of Republican Government](#)

Science of Living Systems

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Courses in Science of Living Systems teach central concepts, facts and theories in the life sciences and engineering, and relate them to problems of wide concern. These courses may explore a range of topics relating to understanding life -- its origins, the way it adapts to and changes the environment, and the ways in which human interventions can affect its trajectory. These courses provide students with the tools to evaluate scientific claims, consider alternative accounts for empirical findings, and appreciate the ambiguity that often surrounds such findings. Whenever possible, students examine the nature of experiments on living systems through laboratory, field, or other hands-on experiences.

Science of Living Systems

[Science of Living Systems 11. Molecules of Life](#)

Catalog Number: 9478 Enrollment: Limited to 200.

Jon Clardy (Harvard Medical School) and David R. Liu (Chemistry and Chemical Biology)

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

Molecules form the basis of heredity, govern how our bodies develop, allow us to respond to changes in our environment, and carry our thoughts. This course explores the roles of molecules through case studies of our bodies' messengers, modern drugs, and the future of medicine. Examples include sexual development, metabolism, behavior, nerve transmission, infectious



disease, cancer, diabetes and stem cells. Students will connect to lecture material in discussion section through hands-on activities and role-playing scenarios.

Note: Expected to be omitted in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Science B.

Science of Living Systems 12. Understanding Darwinism

Catalog Number: 5523

Janet Browne (History of Science) and Andrew J. Berry (Organismic and Evolutionary Biology)
Half course (spring term). Tu., Th., 10–11:30, and a weekly section/laboratory to be arranged.

EXAM GROUP: 12, 13

An interdisciplinary exploration of Darwin's ideas and their impact on science and society. The course links the history of Darwin's ideas with the key features of modern evolutionary biology. Darwin's celebrated book *On the Origin of Species* provided a compelling solution to one of science's most prominent problems—the origins of biological diversity and of our own species—and a whole new way of viewing the world. The course reviews the development of the main elements of the theory of evolution, highlighting the areas in which Darwin's ideas have proved remarkably robust and areas in which subsequent developments have significantly modified the theory. By also analyzing the historical context of the development of evolutionary thought beyond Darwin, the course emphasizes the dynamic interplay between science and society.

Note: Expected to be omitted in 2011–12. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Science B.

Science of Living Systems 15 (formerly Science B-60). Origins of Knowledge

Catalog Number: 8280

Elizabeth S. Spelke (Psychology) and Susan E. Carey (Psychology)

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

This course explores the origins and development of knowledge in the human child, in relation to two larger time scales: biological evolution and historical/cultural change. Drawing on evidence from experimental, comparative, and developmental psychology, cultural anthropology, linguistics, cognitive neuroscience, and history of science, it focuses on the development of knowledge of objects, number, space, language, agency, morality and the social world. Questions include: How does human biology constrain and support human cognition? How variable are human knowledge systems across different cultures and times? What aspects of knowledge are unique to humans? How does knowledge change as children grow and adults gain expertise?

Note: This course, when taken for a letter grade, meets the Core area requirement for Science B.

Science of Living Systems 16. Human Evolution and the Human Body

Catalog Number: 0470

Daniel E. Lieberman (Human Evolutionary Biology)

Half course (spring term). Tu., Th., 1–2:30, and a 90-minute weekly section to be arranged.

EXAM GROUP: 15, 16

How and why did humans evolve to be the way we are, and what are the implications of our evolved anatomy and physiology for human health in a post-industrial world? To address these questions, this course reviews the major transitions that occurred in human evolution, from the



divergence of the ape and human lineages to the origins of modern humans. Also considered are the many effects of recent cultural and technological shifts such as agriculture and industrialization on human health.

Note: Expected to be omitted in 2011–12. Students who have taken Science B-27 may not take this course for credit. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Science B.

Science of Living Systems 17 (formerly Science B-23). The Human Organism

Catalog Number: 6581 Enrollment: Limited to 75.

Joseph D. Brain (Harvard School of Public Health) and Stephanie A. Shore (Harvard School of Public Health)

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

The physiology and pathology of the human body are presented with an emphasis on cardiovascular, respiratory, endocrine, and reproductive biology. Besides learning human biology, students will explore critical determinants of their own health as well as the health of diverse communities in rich and poor countries. Topics include the normal functioning of the human body and its responses to infection, injury, and environmental stress. We will analyze the relative power of diagnosis and treatment of disease (medicine) versus primary prevention of disease (public health) in promoting global health. Activities include classroom discussions and demonstrations, laboratories, and a directed term paper.

Note: Expected to be omitted in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Science B.

[Science of Living Systems 18 (formerly Science B-65). Evolutionary Biology: Sex, Survival, and the Orgy of Species]

Catalog Number: 9680

Jonathan Losos (Organismic and Evolutionary Biology)

Half course (fall term). Tu., Th., 11–12:30, and a 90-minute weekly section to be arranged.

Five to ten million species roam the earth today—or maybe ten times that many. Where did these species come from? What processes regulate their diversity? We now know that Darwin's theory of evolution by natural selection is correct, but many other processes also affect evolutionary change. Competition for mates is particularly important and evolutionary divergence of species is often driven by differences in reproductive biology. This course will examine theories of how evolution occurs, including runaway sexual selection, sperm competition, adaptive radiation, disruptive selection, sympatric speciation and host-parasite interactions.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Science B.

Science of Living Systems 19. Nutrition and Global Health

Catalog Number: 50018

Christopher P. Duggan (Harvard Medical School; Harvard School of Public Health), Clifford W. Lo (Harvard Medical School), and Wafaie W. Fawzi (Harvard School of Public Health)

Half course (spring term). M. 3–5, and a weekly section to be arranged. EXAM GROUP: 8, 9

This course will introduce students to nutrition and global health problems through exploration



of demographic, epidemiological, biological, social, political, and economic determinants of nutritional status. Emphasis will be placed on the role of nutritional status and dietary intake, both as a determinant and as a consequence, of these health problems. Students will be encouraged to think critically about the major challenges to improve nutrition and health at a global level, with a focus on nutrition and infectious diseases, maternal and child health, and chronic diseases. Nutritional assessment, study design, and efficacy of nutrition interventions, will be explored in detail.

Note: This course, when taken for a letter grade, meets the Core area requirement for Science B.

Science of Living Systems 20. Psychological Science

Catalog Number: 16308

Fall: Jason P. Mitchell (Psychology); Spring: Steven Pinker (Psychology)

Half course (fall term; repeated spring term). Fall: Tu., Th., 10-11:30; Spring: Tu., Th., 2:30-4, and a weekly section to be arranged . EXAM GROUP: Fall: 12, 13; Spring: 16, 17

An introduction to the sciences of mind, including foundational concepts from neuroscience, evolution, genetics, philosophy, and experimental methods, and specific topics such as perception, memory, reasoning and decision-making, consciousness, child development, psychopathology, personality, language, emotion, sexuality, violence, and social relations.

Note: Students who have taken Science B-62 or Psychology 1 may not take this course for credit but may use those courses to satisfy the General Education requirement for Science of Living Systems or the Core area requirement for Science B. This course, as well as Science B-62 and Psychology 1, meet the Tier 1 requirement for Psychology. This course, when taken for a letter grade, meets the Core area requirement for Science B.

Science of Living Systems 21. Evolutionary Medicine - (New Course)

Catalog Number: 58084

Charles Nunn (Human Evolutionary Biology) and Peter Ellison (Human Evolutionary Biology)

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

Evolutionary medicine is a new field seeking to apply the principles of evolution to understanding human health and disease. This course will be equally divided among lectures and case studies. Lectures will focus on general principles including: elements of evolutionary theory; interpreting data in relation to specific hypotheses; major human infectious, chronic, and genetic diseases; and human anatomy and physiology in evolutionary perspective. Case studies will be chosen to illustrate these principles and will engage students in small discussion groups and independent research.

Note: This course, when taken for a letter grade, meets the Core area requirement for Science B.

Science of Living Systems 22. Human Influence on Life in the Sea - (New Course)

Catalog Number: 42977

Robert M. Woollacott (Organismic and Evolutionary Biology) and James J. McCarthy (Organismic and Evolutionary Biology)

Half course (fall term). Tu., Th., 11:30-1, and a weekly two-hour section or lab to be arranged. EXAM GROUP: 13, 14

Many important marine fish stocks are over-harvested and their futures are in doubt. Other human activities, such as pollution and anthropogenic climate change, are also affecting the



stability and productivity of marine ecosystems. This course will ask what we need to know about the causes and effects of anthropogenic change to best protect marine ecosystems and ensure sustainable harvests from the sea.

Note: This course, when taken for a letter grade, meets the Core area requirement for Science B.

[Science of Living Systems 23. Outbreak: Evolution, Genomics and Infectious Disease] - (New Course)

Catalog Number: 66072

Scott V. Edwards (Organismic and Evolutionary Biology) and Pardis Sabeti (Organismic and Evolutionary Biology)

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

In today's rapidly changing and interconnected world, deadly infectious diseases and global pandemics are an ever growing threat. Students gain scientific, medical, and public health knowledge to prepare themselves for these dangers and learn the fundamentals of pathogens - biology, genomics, clinical symptoms, evolution, and bioterrorist potential - and our measures of detection and combat - diagnostics, prevention, drugs, vaccines, and intervention campaigns. We study cases from the world's deadliest historical and emerging pathogens including smallpox, yellow fever, bubonic plague, SARS, Lassa, and Ebola finishing with a series of simulations where you work to save yourselves and the world from a deadly outbreak.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Science B.

***Science of Living Systems 24. From Neurons to Nations: The Science of Early Childhood Development and the Foundations of a Successful Society - (New Course)**

Catalog Number: 81179 Enrollment: Limited to 100.

Jack Shonkoff (Harvard Graduate School of Education; Harvard Medical School; Harvard School of Public Health), Charles A. Nelson (Harvard School of Public Health), and Holly Schindler (Harvard Graduate School of Education)

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

This course is designed to bridge developmental science and social policy. It will begin with an overview of basic concepts of embryonic and neurobiological development, with particular attention focused on experience-dependent changes in brain architecture, and proceed to investigate how early experiences influence lifelong learning, behavior, and both physical and mental health. Students will then learn how broader understanding and effective translation of these scientific concepts can inform evidence-based policies and practices that advance the healthy development of children, families, and communities as well as bring high returns to all of society. Faculty affiliated with the Center on the Developing Child.

Note: Permission of the instructor is required. This course, when taken for a letter grade, meets the Core area requirement for Science B.

Science of Living Systems 25 (formerly Science B-40). Trees, Forests and Global Change

Catalog Number: 2635

Donald H. Pfister (Organismic and Evolutionary Biology) and Andrew Richardson (Organismic and Evolutionary Biology)

Half course (spring term). Tu., Th., 10–11:30, and a weekly section/laboratory to be arranged.

EXAM GROUP: 12, 13



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

Note: This course, when taken for a letter grade, meets the Core area requirement for Science B.

Cross-listed courses that satisfy the Science of Living Systems Requirement. Some of these courses may have prerequisites or assume familiarity with the subject matter.

[Chemistry 27. Organic Chemistry of Life](#)

[Life and Physical Sciences A. Foundational Chemistry and Biology](#)

[Life Sciences 1a. An Integrated Introduction to the Life Sciences: Chemistry, Molecular Biology, and Cell Biology](#)

[Life Sciences 1b. An Integrated Introduction to the Life Sciences: Genetics, Genomics, and Evolution](#)

[Life Sciences 2. Evolutionary Human Physiology and Anatomy](#)

[MCB 52. Molecular Biology](#)

[MCB 54. Cell Biology](#)

[MCB 80. Neurobiology of Behavior](#)

[OEB 10. Foundations of Biological Diversity](#)

[OEB 52 \(formerly OEB 124\). Biology of Plants](#)

[Science of the Physical Universe 20. What is Life? From Quarks to Consciousness](#)

[Science of the Physical Universe 22. The Unity of Science: From the Big Bang to the Brontosaurus and Beyond](#)

[SCRB 10. Human Developmental and Regenerative Biology](#)

Science of the Physical Universe

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Courses in Science of the Physical Universe teach scientific concepts, facts, theories, and methods in the physical sciences and engineering and relate them to problems of wide concern. These courses may explore discoveries, inventions, and concepts in the physical sciences that have led to or underlie issues affecting societies across the globe including reliance on fossil fuels, the exploration of space, the proliferation of nuclear weapons, climate change, and privacy in an age of digital communication. The courses provide students with the tools to evaluate scientific claims, consider alternative accounts for empirical findings, and appreciate the ambiguity that often surrounds such findings. Whenever possible, students examine the nature of experiments in the physical sciences and engineering through laboratory, field, or other hands-on experiences.

Science of the Physical Universe

[Science of the Physical Universe 12 \(formerly Science A-43\). Natural Disasters](#)

Catalog Number: 6001



John H. Shaw (Earth and Planetary Sciences)

Half course (fall term). T., Th., 10–11:30, and a 60 to 120-minute weekly lab section to be arranged. EXAM GROUP: 12, 13

Natural disasters, such as earthquakes, hurricanes, and floods, claim thousands of lives and cause tens of billions of dollars in damage each year. Moreover, changes in Earth's climate are raising sea level, changing precipitation patterns, and likely causing an increase in the occurrence of damaging storms, putting more of our global population at risk. In this course we develop an understanding of these natural hazards from an earth science perspective, and examine several case studies to assess their catastrophic impacts. Given our scientific understanding of these phenomena, we examine ways to assess and forecast future natural disasters, and to mitigate the adverse impacts to our societies. Sections will emphasize the use of GIS technology to measure the impacts of natural hazards.

Note: This course, when taken for a letter grade, meets the Core area requirement for Science A.

Science of the Physical Universe 13 (formerly Science A-49). The Physics of Music and Sound

Catalog Number: 8987 Enrollment: Limited to 60.

Eric J. Heller (Chemistry and Chemical Biology; Physics)

Half course (fall term). M., W., 2:30–4, and a weekly section to be arranged. EXAM GROUP: 7, 8

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

Note: This course, when taken for a letter grade, meets the Core area requirement for Science A.

[Science of the Physical Universe 14 (formerly Science B-35). How to Build a Habitable Planet]

Catalog Number: 7621

Charles H. Langmuir (Earth and Planetary Sciences)

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

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

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Science B.


[Science of the Physical Universe 15 (formerly Science A-45). Reality Physics]

Catalog Number: 4562

Gerald Gabrielse (Physics)

Half course (fall term). M., W., 11:30–1, and a weekly section to be arranged.

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

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Science A.

Science of the Physical Universe 17 (formerly Science A-41). The Einstein Revolution

Catalog Number: 3581

Peter L. Galison (University Professor; History of Science)

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

EXAM GROUP: 13, 14

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 the 20th- and 21st- centuries. Addresses Einstein's engagement with relativity, quantum mechanics, Nazism, nuclear weapons, philosophy, and technology, and raises basic questions about what it means to understand physics and its history.

Note: Expected to be omitted in 2011–12. This course, when taken for a letter grade, meets the General Education requirement for either Science of the Physical Universe or Culture and Belief, but not both. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Science A.

[Science of the Physical Universe 18 (formerly Science A-39). Time]

Catalog Number: 0077

Gary J. Feldman (Physics)

Half course (fall term). M., W., 12:30–2, and a 90-minute weekly section to be arranged.

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

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the General Education requirement for either Science of the Physical Universe or Empirical and Mathematical Reasoning, but not both. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when



taken for a letter grade, meets the Core area requirement for Science A.

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

Science of the Physical Universe 19 (formerly Science A-35). The Energetic Universe

Catalog Number: 5923 Enrollment: Limited to 325.

Robert P. Kirshner (Astronomy)

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

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.

Note: This course, when taken for a letter grade, meets the Core area requirement for Science A.

Science of the Physical Universe 20. What is Life? From Quarks to Consciousness

Catalog Number: 84519

Logan S. McCarty (Chemistry and Chemical Biology), Andrew J. Berry (Organismic and Evolutionary Biology), and Melissa Franklin (Physics)

Half course (fall term). M., W., F., at 11, and a one hour discussion and one hour of hands-on laboratory per week to be arranged. EXAM GROUP: 4

This course views life through multiple lenses. Quantum physics involves uncertainty and randomness, and yet paradoxically it explains the stability of molecules, such as DNA, that encode information and are critical to life. Thermodynamics is about the universe's ever increasing disorder, and yet living systems remain ordered and intact. This course will examine how these physical laws underpin life and how life itself has diversified since originating 3.5 billion years ago.

Note: Expected to be omitted in 2011–12. This course, when taken for a letter grade, meets the General Education requirement for either Science of the Physical Universe or Science of Living Systems, but not both. This course, when taken for a letter grade, meets the Core area requirement for either Science A or Science B, but not both.

Science of the Physical Universe 21 (formerly Science A-36). Stellar Measures of the Universe

Catalog Number: 4775

Jonathan E. Grindlay (Astronomy)

Half course (fall term). M., W., 1–2:30, and laboratory sessions (evening and day) to be arranged. EXAM GROUP: 6, 7

Direct measurements of the stars and Sun with telescopes on the Science Center to learn how we can understand our solar system, galaxy and the distant universe from stars, the basic building blocks and markers of cosmic evolution. In small sections, students conduct both visual and computer-assisted observations to measure physical properties of stars and formulate their own cosmic understanding from physical laws.

Note: This course, when taken for a letter grade, meets the Core area requirement for Science A.



Science of the Physical Universe 22. The Unity of Science: From the Big Bang to the Brontosaurus and Beyond

Catalog Number: 32997

Irwin I. Shapiro (University Professor; Astronomy; Physics)

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

Science is like well-woven, ever-expanding fabric, designed to (un)cover Nature's secrets. This course emphasizes the strong connections between subfields of science, showing it as the never-ending and greatest detective story ever told, with evidence always the arbiter. These characteristics are exhibited in the semi-historical treatment of three themes: unveiling the universe, the earth and its fossils, and the story of life. Opportunities include working with Harvard's scientific facilities and making short films.

Note: This course, when taken for a letter grade, meets the General Education requirement for either Science of the Physical Universe or Science of Living Systems, but not both. This course, when taken for a letter grade, meets the Core area requirement for either Science A or Science B, but not both.

[Science of the Physical Universe 23 (formerly Science A-29). The Nature of Light and Matter]

Catalog Number: 1706

Roy J. Glauber (Physics)

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

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

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Science A.

***Science of the Physical Universe 24. Introduction to Technology and Society**

Catalog Number: 14726 Enrollment: Limited to 60.

Venkatesh Narayanamurti (Harvard School of Engineering and Applied Sciences, Physics)

Half course (spring term). M., W., 2:30–4, and a weekly section to be arranged. EXAM GROUP: 7, 8

From the digital revolution to bio informatics, from global warming to sustainability, and from national security to renewable energy, technology plays a critical role in shaping our lives. In this course, the students will be exposed to applied science and engineering concepts that span disciplines and examine broadly how technology shapes society and vice versa. It will emphasize qualitative and semi-quantitative analysis, modeling and the conceptual basis of some of the grand challenges facing society.

Note: Permission of the instructor is required. This course, when taken for a letter grade, meets the Core area requirement for Science A.



Science of the Physical Universe 25. Energy: Perspectives, Problems and Prospects

Catalog Number: 1387

Michael B. McElroy (Earth and Planetary Sciences; Harvard School of Engineering and Applied Sciences)

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

The course provides an historical account of the evolution of the modern energy system, from early dependence on human and animal power, to the subsequent use of wind and water, to more recent reliance on fossil fuels - coal, oil and natural gas - and even more recently to the development of the ability to tap the energy contained in the nucleus. It will discuss the important historical advances in the applications of energy, notably in the production and distribution of electricity and in the transportation sector - where oil-derived products provide the motive force for cars, trucks, trains, ships and planes. It will highlight the energy related problems we confront today, with particular emphasis on air pollution, on the threat of global climate change, on the hazards of nuclear proliferation, and on the risks to national security imposed by our increasing reliance on imported sources of oil. It concludes with a discussion of options for a more sustainable energy future.

Note: Students who have taken Science A-52 may not take this course for credit. This course, when taken for a letter grade, meets the Core area requirement for Science A.

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

Science of the Physical Universe 26. Primitive Navigation - (New Course)

Catalog Number: 89089

John Huth (Physics)

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

We use the theme of primitive navigation to open the eyes of students to the physical world in a direct and palpable manner. Basic principles include human cognition of physical and mental maps, dead reckoning, direction finding from nature. The course includes the basics of astronomy, including planetary orbits, meteorology, thermodynamics, bird behavior, electromagnetic radiation, optics, waves, tides, water transport and chemistry. Navigational practices in Polynesian, Arabic, Aboriginal and Norse cultures provide a focus. Some facility with algebra and trigonometry is useful. A series of hands-on projects are employed to understand navigational practices discussed in lecture.

Note: Students who have taken Freshman Seminar 22f may not take this course for credit. This course, when taken for a letter grade, meets the General Education requirement for either Science of the Physical Universe or Empirical and Mathematical Reasoning, but not both. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for either Science A or Quantitative Reasoning, but not both.

Science of the Physical Universe 27. Science and Cooking: From Haute Cuisine to Soft Matter Science - (New Course)

Catalog Number: 73191 Enrollment: Limited to 300.



David Weitz (Harvard School of Engineering and Applied Sciences) and Michael P. Brenner (Harvard School of Engineering and Applied Sciences)

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

This course is a collaboration between world-class chefs and Harvard professors. Each week, a chef will lecture about some aspect of gastronomy. This lecture will introduce and motivate a lecture about the science of soft materials by the Harvard professors. The course will cover the basic concepts in the science of soft materials, providing a solid understanding of their properties and behavior. All food is made of soft materials, and cooking relies on many of their fundamental properties. The course will also include laboratory work that uses concepts of cooking to understand and motivate experimental measurements on soft materials.

Note: This course, when taken for a letter grade, meets the Core area requirement for Science A.

Science of the Physical Universe 28 (formerly Science A-50). Invisible Worlds

Catalog Number: 5565

Mara Prentiss (Physics) and George M. Whitesides (University Professor; Chemistry)

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

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

Note: This course, when taken for a letter grade, meets the Core area requirement for Science A.

***Science of the Physical Universe 29. The Climate-Energy Challenge - (New Course)**

Catalog Number: 79392 Enrollment: Limited to 75.

Daniel P. Schrag (Earth and Planetary Sciences)

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

This course will examine future climate change in the context of Earth history, and then consider various strategies for what might be done to deal with it. The likely impacts of continued greenhouse gas emissions will be explored, emphasizing the scientific uncertainties associated with various predictions, and how this can be understood in the context of risk. In the latter third of the class, the question of how to mitigate climate change will be discussed, including an examination of various options for advanced energy systems.

Note: Permission of the instructor is required. This course, when taken for a letter grade, meets the Core area requirement for Science A.

Science of the Physical Universe 30 (formerly Science A-54). Life as a Planetary Phenomenon

Catalog Number: 5680

Dimitar D. Sasselov (Astronomy)



Half course (spring term). Tu., Th., 10:00-11:30, and a weekly section to be arranged. EXAM GROUP: 12, 13

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

Note: This course, when taken for a letter grade, meets the Core area requirement for Science A.

Cross-listed courses that satisfy the Science of the Physical Universe Requirement. Some of these courses may have prerequisites or assume familiarity with the subject matter.

[Astronomy 16. Stellar and Planetary Astronomy](#)

[Astronomy 17. Galactic and Extragalactic Astronomy](#)

[Earth and Planetary Sciences 5. Introduction to Environmental Science: Atmosphere, Ocean, and Biosphere](#)

[Earth and Planetary Sciences 7. Introduction to Geological Sciences](#)

[Earth and Planetary Sciences 109. Earth Resources and the Environment](#)

[Earth and Planetary Sciences 133. Atmospheric Chemistry](#)

[*Engineering Sciences 1. Introduction to Engineering Sciences](#)

[Engineering Sciences 6. Environmental Science and Technology](#)

[*Engineering Sciences 50. Introduction to Electrical Engineering](#)

[Physical Sciences 1. Chemical Bonding, Energy, and Reactivity: An Introduction to the Physical Sciences](#)

[Physical Sciences 2. Mechanics, Elasticity, Fluids, and Diffusion](#)

[Physical Sciences 3. Electromagnetism, Circuits, Waves, Optics, and Imaging](#)

[Physics 11a. Mechanics](#)

[Physics 11b. Electricity, Magnetism, and Waves](#)

[Physics 15a. Introductory Mechanics and Relativity](#)

[Physics 15b. Introductory Electromagnetism](#)

[Physics 15c. Wave Phenomena](#)

[Physics 16. Mechanics and Special Relativity](#)

[Physics 123. Laboratory Electronics](#)

[Physics 125. Widely Applied Physics](#)

Societies of the World

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Courses in Societies of the World provide students with an international perspective by acquainting them with values, customs, and institutions that differ from their own, and help students to understand how different beliefs, behaviors, and ways of organizing society come into being. These courses may focus primarily on a single society or region, or they may address topics that transcend national boundaries, analyzing the flow and transformation of money, goods, people, resources, information, or ideas between and among different societies. The



courses may take a variety of disciplinary approaches, and may treat topics from a contemporary perspective or a historical one. Students will develop an awareness of the diversity of ways in which human beings have organized their social existence.

Societies of the World

Societies of the World 11. Germany in the World, 1600-2000

Catalog Number: 2359

David Blackbourn (History)

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

This course examines how German-speaking Europe and its inhabitants have interacted with the wider world over the last four centuries. Political and military dimensions receive attention, but so do trade and commodity flows, migration, ecological exchanges, travel, exploration, colonialism, and cultural transfers. The course, in which visual materials play an integral part, seeks to show how a national history can be seen in new ways when viewed through a transnational perspective.

Note: Students who have taken Historical Study A-76 may not take this course for credit. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Historical Study A.

[Societies of the World 12 (formerly Historical Study A-13). China: Traditions and Transformations]

Catalog Number: 5243

Peter K. Bol (East Asian Languages and Civilizations) and William C. Kirby (History)

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

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: Expected to be given in 2011–12. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for either Historical Study A or Foreign Cultures, but not both.

Societies of the World 13 (formerly Historical Study A-14). Japan in Asia and the World

Catalog Number: 5373

Andrew Gordon (History) and David Howell (East Asian Languages and Civilizations)

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

Japan is a collection of islands, but its past and present unfolds through continuous interaction with wider worlds. This course places Japan in contexts of Asian and global history. It begins



with the people, institutions, and ideas of premodern Japan, from the emergence of a court-centered state 1500 years ago to a warrior-dominated society centuries later. We then examine the tumultuous process of change from the 19th century through the present and explore how people in Japan have dealt with the dilemmas of modernity that challenge us all.

Note: Expected to be omitted in 2011–12. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for either Historical Study A or Foreign Cultures, but not both.

Societies of the World 14 (formerly Historical Study A-88). The British Empire

Catalog Number: 9910

Maya Jasanoff (History)

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

Less than a century ago the British Empire ruled a quarter of the world. This course surveys the extraordinary reign of the British Empire from the American Revolution to World War II. Course presents a narrative of key events and personalities, introduces major concepts in the study of British imperial history, and considers the empire's political and cultural legacies. Readings include works by Niall Ferguson, Linda Colley, Winston Churchill, and Mahatma Gandhi.

Note: This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Historical Study A.

[Societies of the World 15 (formerly Historical Study B-64). The Cuban Revolution, 1956-1971: A Self-Debate]

Catalog Number: 6974

Jorge I. Domínguez (Government)

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

Focus on the insurrectionary war, the consolidation of power, Fidel Castro's role, the role of organized labor and the peasantry, the US-Cuban conflict, the alliance with the Soviet Union, the choice of economic strategy, the "remaking of human beings," the role of intellectuals, and the support for revolutions in Africa and Latin America. The instructor debates himself, presenting two or more views on each topic. Readings include original documents in translation.

Note: Expected to be given in 2011–12. Sections offered in English or Spanish. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for either Historical Study B or Foreign Cultures, but not both.

Societies of the World 16 (formerly Literature and Arts C-61). The Rome of Augustus

Catalog Number: 1101

R. J. Tarrant (The Classics)

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

Roman culture and society in a period of radical transformation, the lifetime of the first emperor, Augustus (63 BCE-14 CE). Focuses on the interplay between a new set of political realities and developments in literature, the visual arts, and the organization of private and social life.



Readings (all in translation) from Catullus, Cicero, Virgil, Horace, Livy, Propertius, Ovid, and Tacitus, with special attention to the two great masterworks of the period, Virgil's *Aeneid* and Ovid's *Metamorphoses*. Most lectures illustrated with slides.

Note: Expected to be omitted in 2011–12. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for either Literature and Arts C or Historical Study B, but not both.

[Societies of the World 18 (formerly History 1205). Europe Since the Second World War]

Catalog Number: 4588

Mary D. Lewis (History)

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

Considers the political, economic, social and cultural development of Europe since the end of the Second World War. Examines post-war reconstruction; decolonization and the Cold War; the development of social democracy, new social movements, and the welfare state; the birth and expansion of the European Union; the emergence and importance of “immigrant politics” and new extreme-right movements; the events of 1989 and their significance.

Note: Expected to be given in 2011–12. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Historical Study A.

[Societies of the World 19. Western Ascendancy: The Mainsprings of Global Power from 1600 to the Present]

Catalog Number: 77527

Niall Ferguson (History)

Half course (fall term). Tu., Th., at 10, and a weekly section to be arranged.

From the scientific revolution to the industrial revolution, from democracy to the consumer society, from imperialism to nationalism and socialism, the ideas and institutions of “the West” (meaning Europe and its colonies of settlement) came to dominate the world in the four centuries after around 1600. But what were the mainsprings of Western power? Taking a comparative historical approach, this course seeks to identify the key economic, cultural, social, political and military differences between the West and “the Rest.”

Note: Expected to be given in 2011–12. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Historical Study A.

[Societies of the World 20 (formerly Foreign Cultures 48). The Cultural Revolution]

Catalog Number: 6474

Roderick MacFarquhar (Government)

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

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



well.

Note: Expected to be given in 2011–12. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for either Foreign Cultures or Historical Study B, but not both.

Societies of the World 21 (formerly Foreign Cultures 63). China's Two Social Revolutions

Catalog Number: 1884

Martin K. Whyte (Sociology)

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

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

Note: This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Foreign Cultures.

Societies of the World 22. Asia in the Making of the Modern World

Catalog Number: 26005

Ian J. Miller (History) and Parimal G. Patil (Sanskrit and Indian Studies)

Half course (spring term). Tu., 11:30–1, and a 2 hour section to be arranged. EXAM GROUP: 13, 14

This course spotlights familiar aspects of everyday life in contemporary America, and reveals how a deeper understanding of them often requires study of peoples and events in distant places and times. In addition to making startling discoveries about global history, students will also learn the creative use of electronic databases and archival resources, and gain experience with multimedia presentations (mini-documentaries, podcasts).

Note: This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Historical Study A.

Societies of the World 24. Global Health Challenges: Complexities of Evidence-based Policy

Catalog Number: 92634 Enrollment: Limited to 144.

Sue J. Goldie (Harvard School of Public Health)

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

This course introduces the global health challenges posed by failure to adequately reduce infections, malnutrition, and maternal-child health problems in the most vulnerable populations, escalating rates of non-communicable diseases/injuries, and emerging health risks that cross national boundaries. We will assess social responses to these challenges at the community, national, and global levels. Through an understanding of population health measures, we will examine patterns of disease/mortality between and within countries, capture important time trends, and identify determinants of health inequalities. While emphasizing science driven policy, comparative case examples will illuminate influential systemic factors, health system



performance, and the economic/social/political climate.

Note: This course, when taken for a letter grade, meets the General Education requirement for either Societies of the World or Empirical and Mathematical Reasoning, but not both. This course, when taken for a letter grade, meets the Core area requirement for either Social Analysis or Quantitative Reasoning, but not both.

Societies of the World 25 (formerly Anthropology 1825). Health, Culture and Community: Case Studies in Global Health

Catalog Number: 9587

Arthur M. Kleinman (Anthropology; Harvard Medical School), Paul E. Farmer (Harvard Medical School; Harvard School of Public Health), Anne Becker (Harvard Medical School), and Salmaan Keshavjee (Harvard Medical School)

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

Examines, through lecturers and case-based discussions, a collection of global health problems rooted in rapidly changing social structures that transcend national and other administrative boundaries. Students will explore case studies (addressing AIDS, tuberculosis, mental illness, and other topics) and a diverse literature (including epidemiology, anthropology, history, and clinical medicine), focusing on how a broad biosocial analysis might improve the delivery of services designed to lessen the burden of disease, especially among those living in poverty.

Note: Course counts as Social Anthropology. This course, when taken for a letter grade, meets the Core area requirement for Social Analysis.

[Societies of the World 26 (formerly Historical Study A-21). Africa and Africans: The Making of a Continent in the Modern World]

Catalog Number: 5568

Caroline M. Elkins (History)

Half course (spring term). Tu., Th., at 11, and a weekly section to be arranged.

Understanding Africa as it exists today requires an understanding of the broader historical trends that have dominated the continent's past. This course will provide an historical context for understanding issues and problems as they exist in contemporary Africa. It will offer an integrated interpretation of sub-Saharan African history from the middle of the 19th century and the dawn of formal colonial rule through the period of independence until the present time. Particular emphasis will be given to the continent's major historical themes during this period. Selected case studies will be offered from throughout the continent to provide illustrative examples of the historical trends.

Note: Expected to be given in 2011–12. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for either Historical Study A or Foreign Cultures, but not both.

[Societies of the World 27 (formerly Historical Study A-75). The Two Koreas]

Catalog Number: 0786

Carter J. Eckert (East Asian Languages and Civilizations)

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

This course seeks to provide a broad historical context in which to understand the contemporary



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

Note: Expected to be given in 2011–12. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Historical Study A.

[Societies of the World 29. Inequality and Society in 21st Century East Asia]

Catalog Number: 71326

Mary C. Brinton (Sociology)

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

East Asian economies burst onto the center stage of global capitalism in the late 20th century. How were the lives of ordinary people in this part of the world affected? Who has gained and lost in the process of economic development? This course uses ethnography as well as “hard data” to study these questions in Japan, South Korea, and China and to familiarize students with how social scientists study social and economic inequality.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Social Analysis.

Societies of the World 30. Moctezuma’s Mexico: Then and Now

Catalog Number: 3196

David L. Carrasco (Harvard Divinity School) and William L. Fash (Anthropology)

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

Explorations of the mythical and social origins, glory days and political collapse of the Aztec Empire and Maya civilizations followed by study of the sexual, religious and racial interactions of the “Great Encounter” between Mesoamerica and Europe. Focus on the archaeology, cosmovision, human sacrifice, divine kingship, the mystery of 2012 and rebellion in Mesoamerican cities and in colonialism. Hands-on work with objects at the Peabody Museum aid in examining new concepts of race, nation and the persistence of Moctezuma’s Mexico in Latino identities in the Mexico-US Borderlands.

Note: This course, when taken for a letter grade, meets the General Education requirement for either Societies of the World or Culture and Belief, but not both. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Foreign Cultures.

Societies of the World 31. Political Economy After The Crisis

Catalog Number: 80232

Roberto Mangabeira Unger (Harvard Law School) and Ricardo Hausmann (Harvard Kennedy School)

Half course (spring term). W., 1-3, and a weekly section to be arranged.

Explores the nature and possible reform of contemporary market economies from the perspective



of two related concerns: the effort to promote socially inclusive economic growth and the hope that countries respond to the worldwide financial and economic crisis in ways that serve this goal. Considers the uses and limitations of established economics as a guide to thinking about better ways to organize economic institutions both nationally and globally. Some previous acquaintance with economics desirable but not required.

Note: Offered jointly with the Kennedy School as PED-233 and the Law School as LAW-44599A. This course, when taken for a letter grade, meets the Core area requirement for Social Analysis.

[Societies of the World 32 (formerly Historical Study A-73). The Political Development of Western Europe]

Catalog Number: 8261

Peter A. Hall (Government)

Half course (fall term). Tu., Th., at 11, and a 90-minute weekly section 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 developments such as the English and French Revolutions, the Industrial Revolution, 19th-century democratization, and the appearance of fascism. Emphasizes the usefulness of comparative, historical analysis for understanding the origins of contemporary politics and competing approaches to understanding the processes of change associated with the development of the modern state.

Note: Expected to be given in 2011–12. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Historical Study A.

[Societies of the World 33 (formerly Foreign Cultures 84). Tokyo]

Catalog Number: 9691

Theodore C. Bestor (Anthropology)

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

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

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the General Education requirement for either Societies of the World or Culture and Belief, but not both. This course, when taken for a letter grade, meets the Core area requirement for Foreign Cultures.

Societies of the World 34 (formerly Foreign Cultures 46). The Caribbean: Globalization, Socio-Economic Development & Cultural Adaptation

Catalog Number: 6357

Orlando Patterson (Sociology)

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



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Caribbean societies are largely the economic and political creations of Western imperial powers and are among the earliest products of globalization. Though *in* the West, they are only partly of it, and their popular cultures are highly original blends of African, European and Asian forms. The course examines the area as a system emerging through genocide, piracy, plantation slavery, colonialism and globalization, from a situation of great social and cultural diversity to the present tendency toward socio-economic and cultural convergence. Patterns of underdevelopment and government are explored through national case studies (Puerto Rico, Cuba, Jamaica & Haiti) and selected, region-wide modern issues (hurricanes, earthquakes and other natural disasters; migration & transnationalism; crime & drug trafficking), as are cultural adaptations through studies of Afro-Caribbean religions, folkways, and music. America's special role in the region is emphasized.

Note: This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Foreign Cultures.

Societies of the World 35. Conditional Equality: The Case of the Jews of Europe in Modern Times - (New Course)

Catalog Number: 88298

Jay M. Harris (Near Eastern Languages and Civilizations)

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

This course is a study in the relations between majorities and minorities in modern Europe, using the Jews as a focus. It will examine the ways in which the equal status of a minority is negotiated through cultural and political interaction, both subtle and blunt. It will further focus on the role that such negotiations have in the formation of identities of both the majority and the minority. Finally, it will examine the ways in which majorities can exercise control over minorities rendering them conditionally rather than fully equal participants in the national projects of the age.

Note: Expected to be omitted in 2011–12. Students who have taken Historical Study A-44 may not take this course for credit. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Historical Study A.

Societies of the World 36 (formerly Historical Study A-16). Modern South Asia in Global History

Catalog Number: 9058

Sugata Bose (History)

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

This course provides the historical depth and the comparative context in which to understand contemporary South Asia through an historical inquiry into the making and multiple meanings of modernity. It explores the history, culture, and political economy of the subcontinent which provides a fascinating laboratory to study such themes as colonialism, nationalism, partition, the modern state, economic development, refashioning of religious identities, center-region problems and relations between Asia and the West. Significant use of primary written sources (in English) and multi-media presentations.



Note: This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for either Historical Study A or Foreign Cultures, but not both.

Societies of the World 37 (formerly Historical Study A-89). The Chinese Overseas

Catalog Number: 7869

Michael A. Szonyi (East Asian Languages and Civilizations)

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

This course introduces the emigration of people from China to other parts of the world over the last five centuries. It considers the causes of emigration, the ties that emigrants retained to China, and the communities that Overseas Chinese created abroad. It compares the experiences of emigrants and their descendants in Southeast Asia and in North America. Last, it tries to situate the recent wave of Chinese migration to North America in global and historical context.

Note: Expected to be omitted in 2011–12. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Historical Study A.

Societies of the World 38. Pyramid Schemes: The Archaeological History of Ancient Egypt - (New Course)

Catalog Number: 36776

Peter Der Manuelian (Near Eastern Languages and Civilizations; Anthropology)

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

Surveys ancient Egyptian pharaonic civilization (about 3,000–332 B.C.). Emphasizes Egyptian material culture: pyramids, temples, tombs, settlements and cities, art masterpieces and objects of daily life. Explores major development themes that defined the Egyptian state: the geographical landscape, the concept of the monarchy, social stratification, craftsmanship, and religion, including mortuary beliefs. Our chronological path includes excursions into Egyptian art, history, politics, religion, literature (hieroglyphs), and the evolution of modern Egyptology. Also touches on contemporary issues of object repatriation, and archaeology and cultural nationalism. Field trips to the Egyptian collections of the Museum of Fine Arts will be included.

Note: This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Historical Study A.

Societies of the World 39 (formerly Historical Study B-52). Slavery and Slave Trade in Africa and the Americas

Catalog Number: 3834

Emmanuel K. Akyeampong (African and African American Studies; History)

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

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



and ends with a discussion of the legacy of slavery and the global nature of the African diaspora.

Note: This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Historical Study B.

Societies of the World 40 (formerly Anthropology 1174). The Incas: The Last Great Empire of Pre-Columbian South America

Catalog Number: 5311

Gary Urton (*Anthropology*)

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

This course directs students on an exploration of the largest and arguably most complex civilization of the Pre-Columbian Americas—the Inca Empire of Andean South America. In addition to lectures, discussions, and films, students will experience the products of Inca civilization directly through study of Inca artifacts housed in the Peabody Museum of Archaeology and Ethnology.

Note: This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Social Analysis.

Societies of the World 41 (formerly History 1050). Medieval Europe

Catalog Number: 4278

Michael McCormick (*History*)

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

This course will examine the emergence of medieval civilization from the ruins of the ancient world, and the evolution of that civilization into modern Europe. Themes include: the fall of Rome, the spread of Christianity, the rise and fall of Byzantium, the challenge of Islam, the Vikings, the Crusades, commerce and agriculture, the Feudal Revolution, the Twelfth Century Renaissance, spirituality and persecution, the origins of law and government, the Black Death, and the Italian Renaissance.

Note: Expected to be omitted in 2011–12. This course, when taken for a letter grade, meets the General Education requirement for either Societies of the World or Culture and Belief, but not both. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Historical Study B.

Societies of the World 42. The World Wars in Global Context, 1905-1950 - (New Course)

Catalog Number: 98327

Charles S. Maier (*History*)

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

Examines the origins, military history, and successive postwar settlements of World Wars I and II in the framework of evolving empires, fascist, communist, and democratic ideological mobilization, forced resettlement and cultures of mass violence, ongoing economic and social change (and persistence). Attention to Asian and African as well as European and American



transformations.

Note: Expected to be omitted in 2011–12. Students who have taken Historical Study B-53 or Historical Study B-54 may not take this course for credit. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Historical Study B.

Societies of the World 43 (formerly Historical Study B-67). Japan's Modern Revolution

Catalog Number: 4164

Ian J. Miller (History)

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

On July 8, 1853, Commodore Mathew C. Perry steamed into Japan's Edo Bay with four heavily armed US Navy warships. Two were the so-called "black ships," ominously painted coal-burning steamships of the latest design. There, within view of a stunned populace, Perry issued an ultimatum: open the country to trade or face unstoppable bombardment. Thus began Japan's modern engagement with the outside world, a new chapter in the broader encounter between "East" and "West." Through primary sources, discussion and lecture, this course examines Japan's rapid development from samurai-led feudalism into the world's first non-Western imperial power.

Note: No Japanese language skills required. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Historical Study B.

Societies of the World 44. Human Trafficking, Slavery and Abolition in the Modern World - (New Course)

Catalog Number: 70642

Orlando Patterson (Sociology)

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

This course surveys the nature, types and extent of modern servitude, distinguishing broadly between those resulting from international trafficking such as trans-national prostitution, human smuggling into bonded labor, child soldiering and organ trafficking, and more intra-national forms such as debt-bondage and the domestic exploitation of women and other vulnerable groups. Examines the conceptual and theoretical issues raised in attempts to distinguish among these types of differential power relations; the empirical difficulties of estimating the magnitude of what are inherently secretive processes; and the ideological controversies surrounding the subject. Explores ethical, socio-political and practical issues raised by these trends.

Note: This course, when taken for a letter grade, meets the Core area requirement for Social Analysis.

Cross-listed courses that satisfy the Societies of the World Requirement. Some of these courses may have prerequisites or assume familiarity with the subject matter.

[Ancient Near East 104. Babylon]

**[Anthropology 1125. The Moche of Ancient Peru: Politics, Economy, Religion and Art]
Culture and Belief 21 (formerly Foreign Cultures 93). Pathways through the Andes–**



Culture, History, and Beliefs in Andean South America

[Culture and Belief 26 (formerly Foreign Cultures 81). The Culture of Everyday Life in China]

Culture and Belief 33. Introduction to the Study of East Asian Religions

Government 20. Foundations of Comparative Politics

Government 40. International Conflict and Cooperation

History 1060. Europe and Its Borders, 950-1550

[History 1281. The End of Communism]

History 1282. The Russian Revolution: An International History - (New Course)

[History 1285. Russia and the Great Eurasian Steppe]

[History 1627. China in the Wider World, 1600-2000]

[History 1920 (formerly History 10c). A Global History of Modern Times]

***Religion 1820 (formerly *Religion 1585). Muslim Societies in South Asia: Religion, Culture, and Identity**

United States in the World

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Courses in United States in the World examine American social, political, legal, cultural, and/or economic practices, institutions, and behaviors from contemporary, historical, and/or analytical perspectives. These will help students to understand this country as a heterogeneous and multifaceted nation situated within an international framework by examining ideas about what it means to be an American, about the persistence and diversity of American values, about the relations among different groups within the United States and between the United States and the rest of the world. Courses may compare the American situation to other societies of the world, or show change over time within the United States. These courses prepare students for civic agency by providing critical tools to understand these issues in a historical and/or comparative context.

United States in the World

United States in the World 11. American Health Care Policy

Catalog Number: 4045

Michael Chernew (Harvard Medical School)

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

Health care in America poses fundamental policy challenges to our ability to protect low income Americans from the costs of illness; to produce high quality care; to efficiently use health care resources, and to allow Americans to die without pain, in the company of family, as they desire. This course aims to offer students a solid understanding of the American health care system, the potential impact of new reform legislation, and challenges that will remain in the future.

Note: Students who have taken General Education 186 or Extra-Departmental Courses 186 may not take this course for credit. This course, when taken for a letter grade, meets the Core area requirement for Social Analysis.

[United States in the World 12 (formerly History of Art and Architecture 17y). American Encounters: Art, Contact, and Conflict, 1560-1860]



Catalog Number: 8937

Jennifer L. Roberts (History of Art and Architecture)

Half course (spring term). Tu., Th., at 11, and a weekly section to be arranged.

An introduction to early American art with a focus on transatlantic, cross-cultural perspectives. We begin with the global struggle for control of the North American continent, tracing the collision of multiple Native American and African traditions with the visual and material cultures of British, French, and Spanish colonialism. We then focus more closely on the US proper, examining the active role of the visual arts in the formation of American politics, religion, and society.

Note: Expected to be given in 2011–12. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for either Literature and Arts B or Historical Study B, but not both.

[United States in the World 13 (formerly Historical Study A-34). Medicine and Society in America]

Catalog Number: 1552

Jeremy Alan Greene (History of Science)

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

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

Note: Expected to be given in 2011–12. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Historical Study A.

[United States in the World 14 (formerly Historical Study B-40). Pursuits of Happiness: Ordinary Lives in Revolutionary America]

Catalog Number: 2264

Laurel Thatcher Ulrich (University Professor; History)

Half course (fall term). Tu., Th., at 10, and a weekly section to be arranged.

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

Note: Expected to be given in 2012–13. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Historical Study B.



United States in the World 15 (formerly Social Analysis 66). Is the American Racial Order Being Transformed?

Catalog Number: 0916

Jennifer L. Hochschild (African and African American Studies; Government)

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

Is a fundamental transformation occurring in the American racial order? And if there is, can we tell if these changes are for the better or for the worse? What does the election of Barack Obama reveal about racial and ethnic politics in the United States? We start to answer these questions by exploring the history American racial dynamics. We will then examine how African Americans, Anglos, Latinos, and Asian Americans relate to one another---and to the majority---by looking at such phenomena as multiracialism, ethnic coalitions, and genomics. We consider what public policies, if any, are needed to further racial and ethnic justice. Finally, we examine trends and potential obstacles that may affect the outcome of any transformation, including immigration policy, the criminal justice system, and differences in wealth holding.

Note: This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Social Analysis.

[United States in the World 16 (formerly Historical Study A-86). Men and Women in Public and Private: the US in the 20th Century]

Catalog Number: 4182

Nancy F. Cott (History)

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

This course offers historical perspective on the social relations and relative power of the sexes, tracing changes and continuities over the past century. We will look at sexuality, masculinity, and femininity, centering these in US social, cultural and political history. Demographic patterns, economic demands, public policy, war, and gender-based social movements will provide the context for examining expectations for manhood and womanhood as they play out in family lives, work, popular culture and politics.

Note: Expected to be given in 2011–12. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Historical Study A.

United States in the World 17 (formerly Social Analysis 72). Economics: A Critical Approach

Catalog Number: 1885

Stephen A. Marglin (Economics)

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

This course critically examines the assumptions of modern economics and how these assumptions mold the ideas and conclusions of the discipline. A principal question is the appropriate scope of the market. This question will be examined both theoretically and through examples drawn from both microeconomics and macroeconomics; possible examples include health care, the environment, international trade, social security, and financial crisis and unemployment.

Note: Primarily taught in lectures, with section meetings offering a chance both to clarify



concepts and to discuss applications. Calculus is not used, and there is no mathematics prerequisite. Unlike Economics 10, this course does not fulfill the introductory course requirement for the Economics Department. Moreover, most upper level courses in Economics normally require Economics 10 as a prerequisite; without this prerequisite, enrollment is at the discretion of the instructor. This course, when taken for a letter grade, meets the Core area requirement for Social Analysis.

[United States in the World 19. American Food: A Global History]

Catalog Number: 43817

Joyce E. Chaplin (History)

Half course (spring term). Tu., Th., at 11, and a weekly section to be arranged.

Europeans “discovered” America in search of foodstuffs, specifically spices. And food has been central to the American experience from the starving time in early Virginia to the problem of obesity in the United States today. But what is American about American food? How have individual food choices and national food policies connected Americans to the larger world, both the social worlds of other human beings and the natural world of all other living beings?

Note: Expected to be given in 2011–12. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Historical Study A.

United States in the World 20 (formerly Moral Reasoning 74). The Theory and Practice of Republican Government

Catalog Number: 1489

Daniel P. Carpenter (Government)

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

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

Note: This course, when taken for a letter grade, meets the General Education requirement for either United States in the World or Ethical Reasoning, but not both. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Moral Reasoning.

United States in the World 21 (formerly Sociology 107). The American Family

Catalog Number: 9124

Martin K. Whyte (Sociology)

Half course (spring term). M., W., at 10, and a weekly section to be arranged. EXAM GROUP: 3
 The American family is often thought to be changing in ways considered unfortunate for children and society. At the same time, the family continues to occupy a central place in people’s lives.



We examine how and why American families have changed and explore the consequences of these changes.

Note: This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Historical Study A.

United States in the World 23 (formerly English 177). Art and Thought in the Cold War

Catalog Number: 7704

Louis Menand (English)

Half course (spring term). M., W., at 12, and a weekly section to be arranged. EXAM GROUP: 5 Culture of the early Cold War (1945-1965) in the context of political events and intellectual developments. We will be particularly interested in the unintended consequences of Cold War policies and in trans-Atlantic cultural exchange. Subjects include the literature of totalitarianism, Abstract Expressionism, the Beats, the philosophy of higher education, the Warren Court, film noir, and the French New Wave.

Note: Expected to be omitted in 2011–12. No auditors permitted without permission of the instructor. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts C.

United States in the World 24 (formerly Sociology 19). Reinventing Boston: The Changing American City

Catalog Number: 9395

Christopher Winship (Sociology)

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

American cities have changed in extraordinary ways. Once projected to be doomed to a future of blight and decay, Boston has become a model of urban renaissance. Using Boston as a case, this course considers issues of: technology booms, economic change and inequality, political governance, elite relations, cultural institutions, race and ethnic relations, immigration, gentrification and suburbanization. Regular guest speakers. Requirements: 5 short memos on neighborhood visits; 1 term paper; midterm essay and take-home final exam.

Note: May be counted for introductory concentration requirement, if letter-graded. This course, when taken for a letter grade, meets the Core area requirement for Social Analysis.

United States in the World 25 (formerly Historical Study B-61). The Warren Court and the Pursuit of Justice, 1953-1969

Catalog Number: 6840

Morton J. Horwitz (Harvard 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. In conclusion, we assess the global influence of the Warren Court in encouraging the spread of human rights and judicial review.

Note: This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Historical Study B.

**United States in the World 26 (formerly Studies of Women, Gender, and Sexuality 1000sc).
Sex and the Citizen: Race, Gender, and Belonging in the United States**

Catalog Number: 64666

Caroline Light (Studies of Women, Gender, and Sexuality)

Half course (spring term). M., W., at 11, and a weekly section to be arranged. EXAM GROUP: 4
 Even before the formal establishment of the United States, assumptions about sex have helped determine who is entitled to - and not entitled to - the privileges and protections of full citizenship. This course investigates the roles that sex, gender, and sexuality have played in configuring notions of citizenship over time as well as the ways in which sexual rights remain a site of contestation and struggle in the modern United States.

Note: Expected to be omitted in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Historical Study A. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past.

United States in the World 27. Religion and American Society: Global Traditions in a Changing Culture

Catalog Number: 20673

R. Marie Griffith (Harvard Divinity School)

Half course (spring term). M., W., at 11, and a weekly section to be arranged. EXAM GROUP: 4
 An introduction to religious life in the US since the late 19th century. We will focus on mainstream groups as well as countercultural movements that highlight distinctive ways of being both “religious” and “American,” including the Americanization of global religions in the US context. Major themes include religious encounter and conflict; secularization, resurgent traditionalism, and new religious establishments; experimentalism, eclecticism, and spirituality; the relationship between religious change and broader social currents (pertaining e.g. to race, class, gender, and sexuality); transnational crossings; and the enduring challenges of religious multiplicity in the US.

Note: Expected to be omitted in 2011–12. This course, when taken for a letter grade, meets the General Education requirement for either United States in the World or Culture and Belief, but not both. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Historical Study A.

**[United States in the World 28 (formerly Historical Study B-43).
Slavery/Capitalism/Imperialism: The US in the Nineteenth Century]**

Catalog Number: 5470

Walter Johnson (African and African American Studies; History)

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

This course treats the history of the 19th-century US and the Civil War in light of the history of



US imperialism, especially the War of 1812, the Mexican-American War, and the illegal invasions of Cuba and Nicaragua in the 1850s. Likewise, it relates the history of slavery in the US to the Haitian Revolution, the Louisiana Purchase, Indian removal, Atlantic cotton, land and money markets, and the hemispheric history of antislavery.

Note: Expected to be given in 2011–12. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Historical Study B.

United States in the World 29 (formerly Literature and Arts B-20). Designing the American City: Civic Aspirations and Urban Form

Catalog Number: 3243

Alex Krieger (Harvard Graduate School of Design)

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

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

Note: Expected to be omitted in 2011–12. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts B.

United States in the World 30. Tangible Things: Harvard Collections in World History - (New Course)

Catalog Number: 21669

Laurel Ulrich (University Professor; History) and Ivan Gaskell (History)

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

People make history through the things they make, collect, exhibit, exchange, throw away, or ignore. Over four centuries, Harvard has not only amassed books and manuscripts but art works, scientific instruments and specimens, ethnographic objects, and historical relics of all sorts. By learning how and why particular things arrived in Cambridge and what happened to them when they got here, students will discover how material objects have shaped academic disciplines, reinforced or challenged social boundaries, and defined America's place in the world. This is an interactive course, with weekly visits to museums and close-up investigation of specimens and artifacts.

Note: Expected to be omitted in 2011–12. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Historical Study A.

United States in the World 31 (formerly Social Analysis 54). American Society and Public Policy

Catalog Number: 6661

Theda Skocpol (Government) and Mary C. Waters (Sociology)

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



In the US compared to other major nations, how have social problems been defined and redefined in recent decades; why do they appear differently to various groups; and how are public policies about problematic social conditions debated, devised, and changed? This course synthesizes various kinds of evidence—demographic, attitudinal, ethnographic, and institutional—to probe the creation and impact of major public policies about social support for families and workers; immigration and citizenship, and access to higher education.

Note: This course, when taken for a letter grade, meets the Core area requirement for Social Analysis.

***United States in the World 32 (formerly Religion 1007). The World's Religions in Multicultural America: Case Studies in Religious Pluralism**

Catalog Number: 8833 Enrollment: Limited to 56.

Diana L. Eck (Study of Religion)

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

An exploration of the dynamic religious landscape of the US with special focus on Muslim, Hindu, Buddhist, and Sikh traditions in the most recent period of post-1965 immigration. How are faith and freedom negotiated in a more complex society? In what contexts do minority religious communities encounter long-dominant Christian and Jewish communities? How is America changing as religious communities struggle with civic, constitutional, ethical, and theological issues, especially in the post-9/11 period? Readings, films, discussion, and class projects will focus on particular cases and controversies.

Note: Expected to be omitted in 2011–12. Offered jointly with the Divinity School as 3847. This course, when taken for a letter grade, meets the General Education requirement for either United States in the World or Culture and Belief, but not both. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts C.

United States in the World 33 (formerly African and African American Studies 193). Religion and Social Change in Black America

Catalog Number: 8058

Marla F. Frederick (African and African American Studies; Study of Religion)

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

Religion has inspired new understandings of black social and political engagement. From protest oriented struggles for civil rights and black power to the personal responsibility calls of the Million Man March and the growing influence of Evangelicalism and Pentacostalism in black churches, religion has informed how African Americans engage the challenges of everyday life in America. Through ethnography, auto/biography, and documentary film, this class examines the influence that the social reality of blackness and the religious expression of faith have had on the day to day existence of people of African descent in the US and abroad.

Note: Offered jointly with the Divinity School. This course, when taken for a letter grade, meets the General Education requirement for either United States in the World or Culture and Belief, but not both. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Historical Study A.



Cross-listed courses that satisfy the United States in the World Requirement. Some of these courses may have prerequisites or assume familiarity with the subject matter.

[African and African American Studies 10. Introduction to African American Studies](#)

[Economics 10 \(formerly Social Analysis 10\). Principles of Economics](#)

[Economics 1356. Economics of Work and Family]

[Empirical and Mathematical Reasoning 20 \(formerly Quantitative Reasoning 24\). The Business and Politics of Health](#)

[English 196. Literature of Migration and Ethnicity: The Case of the United States](#)

[Government 30. American Government: A New Perspective](#)

[History 1445. Science and Religion in American Public Culture - \(New Course\)](#)

[History 1465 (formerly History 1650b). The United States in the World, since 1900]

[Sociology 190. Life and Death in the US: Medicine and Disease in Social Context](#)

Graduate Seminars in General Education

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

These seminars for graduate students are committed to the discussion, development, and design of undergraduate courses that will be appropriate for the new Program in General Education. Graduate students actively engage with faculty to consider central conceptual and analytic themes, course design and pedagogy, as well as other important decisions in the development and implementation of courses in general education.

Interested graduate students should contact the specific faculty members for more information and check with their home departments about whether these courses will fulfill requirements for relevant graduate degrees.

Graduate Seminars in General Education

[German 245. Repression and Expression: Sexuality, Gender, and Language in Fin-de-Siècle Austria and Germany \(Graduate Seminar in General Education\) - \(New Course\)](#)

Catalog Number: 30116

Peter J. Burgard

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

Examines sexuality, gender, and language in Nietzsche, Freud, Wedekind, Hofmannsthal, Schnitzler, Mann, Musil, Kafka, Klimt, Schiele, Kokoschka, Kirchner, Heckel, Schmidt-Rottluff, Marc, Jawlensky, Kandinsky. This seminar will design and develop a General Education course on these themes for undergraduates.

Note: Expected to be omitted in 2012-13. Readings and discussions in English.



Government 2126. Political Corruption (Graduate Seminar in General Education) - (New Course)

Catalog Number: 23456 Enrollment: Limited to 15.

James E. Alt and Daniel F. Ziblatt

Half course (spring term). W., 2–4. EXAM GROUP: 7, 8

Addresses the definition, causes, patterns, consequences, and control of political corruption, and its relationship to political and economic development. The seminar will design and develop a General Education course on these themes for undergraduates.

Note: Expected to be omitted in 2011–12.

***History 2052. Rome and China (Graduate Seminar in General Education) - (New Course)**

Catalog Number: 64031 Enrollment: Limited to 15.

Emma Dench and Michael J. Puett

Half course (spring term). Th., 2–4.

A comparative study of the histories of the Roman Empire (at its peak c. 200 BCE–c. 200 CE) and the Han Empire (202 BCE–220 CE). We will study comparative topics in both areas, discuss the growing scholarship on comparative empires in general, and explore methodological questions concerning how to undertake and teach comparative history. The seminar will design and develop a General Education course on these themes for undergraduates.

***History of Art and Architecture 208g. The Architectural Imagination (Graduate Seminar in General Education) - (New Course)**

Catalog Number: 79675 Enrollment: Limited to 15.

K. Michael Hays (Design School) and Erika Naginski (Design School)

Half course (spring term). M., 1–3.

Addresses the architectural imagination as a mode of knowledge and medium of representation. Readings in history and philosophy; analysis of architectural projects. The seminar will design a General Education course on these themes for undergraduates.

Note: Offered jointly with the Graduate School of Design as Architecture 3435.

History of Science 291. Science and Art (Graduate Seminar in General Education) - (New Course)

Catalog Number: 45428

Jimena Canales

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

When perspective was invented in the 15th century, was it a scientific or an artistic discovery? Science and art sometimes meet, crash, and separate. This course will examine the shifting relations between art and science from the Early Modern period to the 20th century. Starting with canonical examples such as Vesalius's anatomical atlas, Da Vinci's work on human proportions, and Galileo's astronomical drawings, the course will include visual culture more broadly, studying the impact of new technologies across fields from medicine to physics. The seminar will design and develop a General Education course on these themes for undergraduates.

OEB 282. Genomics and Evolution of Infectious Disease (Graduate Seminar in General Education)

Catalog Number: 43026



Pardis Sabeti

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

Infectious diseases rapidly evolve to evade our immune systems, drugs, and vaccines, to remain agents of great morbidity and mortality. We will investigate the genome evolution of these pathogens and our intervention strategies for them past and present, with case examples from avian flu, malaria, TB, lassa fever and more. The seminar will design and develop a General Education course on these themes for undergraduates.

***Philosophy 292. The Sacred and the Secular: Seminar (Graduate Seminar in General Education) - (New Course)**

Catalog Number: 46219

Sean D. Kelly

Half course (fall term). Th., 2–4.

Develops a general education course in Culture and Belief. What is life's meaningfulness grounded in, now that we live in a secular age? We consider conceptions of gods and the sacred in classic Western literature. The seminar will design and develop a General Education course on these themes for undergraduates.

Core Curriculum

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

As of July 2008, the General Education Committee assumed responsibility for the Core Curriculum. For further information, please consult the Core website, my.harvard.edu/core. Students entering prior to Fall 2009 are required to complete the Core requirements unless they choose to switch to the Program in General Education. For more information, please consult the General Education website, www.generaleducation.fas.harvard.edu.

Foreign Cultures

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

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



that account for the particular configuration or ethos of another culture.

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

Foreign Cultures

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

Catalog Number: 1976

Hue-Tam Ho Tai

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

Vietnamese society reflects the impact of Confucian values, Socialist ideology and more recently market forces and global trends. The course will explore Vietnamese society from families' reproductive choices to the commemoration of the dead; it looks at how market forces and globalization are reshaping ideas of masculine and feminine behavior; young people's search for love and the impact of conjugality on families; and the phenomenon of Vietnamese brides of foreign spouses.

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

Catalog Number: 9028

Stephen Owen

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

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

Note: This course, when taken for a letter grade, meets the Core area requirement for either Foreign Cultures or Literature and Arts A, but not both.

[Foreign Cultures 76. Nazi Cinema: Fantasy Production in the Third Reich]

Catalog Number: 3396

Eric Rentschler

Half course (fall term). T., Th., at 10; screenings, W., 4-6, and a weekly section to be arranged.

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

Note: Expected to be given in 2011–12. No knowledge of German required. This course, when



taken for a letter grade, meets the Core area requirements for either Foreign Cultures or Literature and Arts B, but not both.

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

Catalog Number: 2619

William E. Granara

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

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

Note: No knowledge of Arabic required.

Core and General Education courses that satisfy the Foreign Cultures requirement

[Aesthetic and Interpretive Understanding 32 (formerly Literature and Arts C-51).

Revolution and Reaction: The Rise and Fall of the Russian Avant-Garde]

Aesthetic and Interpretive Understanding 35. Forms in Korean Cultural History

Aesthetic and Interpretive Understanding 36 (formerly Foreign Cultures 94). Buddhism and Japanese Culture

Aesthetic and Interpretive Understanding 39 (formerly Chinese Literature 150). Old Tales for New Times: The Appropriation of Folklore in Modern and Contemporary China

Aesthetic and Interpretive Understanding 45 (formerly Foreign Cultures 72). Art and Politics in Russia and Eastern Europe

[Culture and Belief 12. For the Love of God and His Prophet: Religion, Literature, and the Arts in Muslim Cultures]

Culture and Belief 19 (formerly Foreign Cultures 70). Understanding Islam and Contemporary Muslim Societies

Culture and Belief 21 (formerly Foreign Cultures 93). Pathways through the Andes—Culture, History, and Beliefs in Andean South America

[Culture and Belief 25 (formerly Religion 70). Studying Buddhism, Across Place and Time]

[Culture and Belief 26 (formerly Foreign Cultures 81). The Culture of Everyday Life in China]

[Culture and Belief 28. Hindu Worlds of Art and Culture]

Culture and Belief 40 (formerly Foreign Cultures 67). Popular Culture and Modern China

Culture and Belief 41 (formerly Historical Study A-67). Gender, Islam, and Nation in the Middle East and North Africa

Culture and Belief 42 (formerly Foreign Cultures 92). Communism and the Politics of Culture: Czechoslovakia from the Prague Spring to the Velvet Revolution

Culture and Belief 43. The World of Yiddish - (New Course)

[Societies of the World 12 (formerly Historical Study A-13). China: Traditions and Transformations]

Societies of the World 13 (formerly Historical Study A-14). Japan in Asia and the World

[Societies of the World 15 (formerly Historical Study B-64). The Cuban Revolution, 1956-



1971: A Self-Debate]

[\[Societies of the World 20 \(formerly Foreign Cultures 48\). The Cultural Revolution\]](#)
[Societies of the World 21 \(formerly Foreign Cultures 63\). China's Two Social Revolutions](#)
[\[Societies of the World 26 \(formerly Historical Study A-21\). Africa and Africans: The Making of a Continent in the Modern World\]](#)
[Societies of the World 30. Moctezuma's Mexico: Then and Now](#)
[\[Societies of the World 33 \(formerly Foreign Cultures 84\). Tokyo\]](#)
[Societies of the World 34 \(formerly Foreign Cultures 46\). The Caribbean: Globalization, Socio-Economic Development & Cultural Adaptation](#)
[Societies of the World 36 \(formerly Historical Study A-16\). Modern South Asia in Global History](#)

Departmental courses that satisfy the Foreign Cultures requirement

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

[African and African American Studies 20. Introduction to African Languages and Cultures](#)

[\[Anthropology 1125. The Moche of Ancient Peru: Politics, Economy, Religion and Art\]](#)
[\[Anthropology 1795. The Politics of Language and Identity in Latin America\]](#)
[Armenian Studies 102. Introduction to Armenian Civilization - \(New Course\)](#)
[\[Chinese 187. Art and Violence in the Cultural Revolution\]](#)
[Folklore and Mythology 126. Continuing Oral Traditions in Indigenous Communities](#)
[\[*History 86e \(formerly *History 1897\). Nation, Reason and Religion in South Asia\]](#)
[\[History 1280 \(formerly History 1531\). History of the Soviet Union, 1917-1991\]](#)
[History 1617. Mainland Southeast Asia: From Colonies to Independent Nations: Conference Course - \(New Course\)](#)
[History 1620 \(formerly History 1821\). Modern Vietnam](#)
[History of Art and Architecture 197. The Imperial Arts of the Inca and the Aztec](#)
[Japanese Literature 162. Girl Culture, Media, and Japan](#)
[\[Jewish Studies 104. Introduction to Yiddish Culture\]](#)
[Latin American Studies 70. Modernity, Culture and Politics in Latin America](#)
[*Religion 1820 \(formerly *Religion 1585\). Muslim Societies in South Asia: Religion, Culture, and Identity](#)
[Scandinavian 115. Nordic Cinema](#)
[Spanish 172. Barcelona and Modernity](#)
[\[Visual and Environmental Studies 187x. From Postwar to Postwall German Cinema\]](#)
[Visual and Environmental Studies 192 \(formerly Foreign Cultures 21\). Cinema and French Culture from 1896 to the Present](#)

Historical Study

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION



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

Historical Study A

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

Historical Study B

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

Historical Study A

Core and General Education courses that satisfy the Historical Study A requirement

[Culture and Belief 11. Medicine and the Body in East Asia and in Europe]

[Culture and Belief 19 \(formerly Foreign Cultures 70\). Understanding Islam and Contemporary Muslim Societies](#)

[Culture and Belief 20 \(formerly Historical Study A-27\). Reason and Faith in the West](#)

[Culture and Belief 31 (formerly Philosophy 19). Saints, Heretics, and Atheists: An Historical Introduction to the Philosophy of Religion]

[Culture and Belief 34 (formerly Historical Study A-87). Madness and Medicine: Themes in the History of Psychiatry]

[Culture and Belief 36. Religion and Its Future]

[Culture and Belief 41 \(formerly Historical Study A-67\). Gender, Islam, and Nation in the Middle East and North Africa](#)

[Societies of the World 11. Germany in the World, 1600-2000](#)

[Societies of the World 12 (formerly Historical Study A-13). China: Traditions and Transformations]

[Societies of the World 13 \(formerly Historical Study A-14\). Japan in Asia and the World](#)

[Societies of the World 14 \(formerly Historical Study A-88\). The British Empire](#)

[Societies of the World 18 (formerly History 1205). Europe Since the Second World War]

[Societies of the World 19. Western Ascendancy: The Mainsprings of Global Power from 1600 to the Present]

[Societies of the World 22. Asia in the Making of the Modern World](#)



[Societies of the World 26 (formerly Historical Study A-21). Africa and Africans: The Making of a Continent in the Modern World]

[Societies of the World 27 (formerly Historical Study A-75). The Two Koreas]

[Societies of the World 32 (formerly Historical Study A-73). The Political Development of Western Europe]

[Societies of the World 35. Conditional Equality: The Case of the Jews of Europe in Modern Times - \(New Course\)](#)

[Societies of the World 36 \(formerly Historical Study A-16\). Modern South Asia in Global History](#)

[Societies of the World 37 \(formerly Historical Study A-89\). The Chinese Overseas](#)

[Societies of the World 38. Pyramid Schemes: The Archaeological History of Ancient Egypt - \(New Course\)](#)

[United States in the World 13 (formerly Historical Study A-34). Medicine and Society in America]

[United States in the World 16 (formerly Historical Study A-86). Men and Women in Public and Private: the US in the 20th Century]

[United States in the World 19. American Food: A Global History]

[United States in the World 21 \(formerly Sociology 107\). The American Family](#)

[United States in the World 26 \(formerly Studies of Women, Gender, and Sexuality 1000sc\). Sex and the Citizen: Race, Gender, and Belonging in the United States](#)

[United States in the World 27. Religion and American Society: Global Traditions in a Changing Culture](#)

[United States in the World 30. Tangible Things: Harvard Collections in World History - \(New Course\)](#)

[United States in the World 33 \(formerly African and African American Studies 193\). Religion and Social Change in Black America](#)

Departmental courses that satisfy the Historical Study A requirement

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

[African and African American Studies 10. Introduction to African American Studies](#)

[Arabic 170. Introduction to the Arab World II: Politics, Religion, and Culture from World War I to Present](#)

[Chinese History 118. Beyond the Great Wall: History of Relations between China and Inner Asia]

[East Asian Studies 175. The History of Modern Science and Technology in East Asia](#)

[Economics 1776. Religion and the Rise of Capitalism](#)

[Government 40. International Conflict and Cooperation](#)

[Government 1730. War and Politics]

[Government 1732. The Origins of Modern Wars](#)

[*History 72j. Ethnic Cleansing and the Making of Nation-States - \(New Course\)](#)

[*History 79f. Empire and Nation in Russia and China](#)

[*History 86a (formerly *History 1828). Christianity and Chinese Society]



[History 1117. Kingdoms to Empire: The Rise of Early Modern Britain, 1485-1714]
[History 1224 \(formerly History 1424\). Britain Since 1760: Island, Europe, Empire](#)
[History 1270. Frontiers of Europe: Ukraine since 1500](#)
 [History 1280 (formerly History 1531). History of the Soviet Union, 1917-1991]
 [History 1281. The End of Communism]
 [History 1285. Russia and the Great Eurasian Steppe]
 [History 1304 (formerly History 1470). Modern European Intellectual History Subject and Structure, Nietzsche to Postmodernism]
 [History 1318. History of the Book and of Reading]
 [History 1330 (formerly History 1661). Social Thought in Modern America]
[History 1345. The Human Sciences in the Modern West](#)
[History 1445. Science and Religion in American Public Culture - \(New Course\)](#)
 [History 1465 (formerly History 1650b). The United States in the World, since 1900]
 [History 1623 (formerly History 1851). 20th-Century Japan]
 [History 1627. China in the Wider World, 1600-2000]
[History 1701 \(formerly History 1907\). West Africa from 1800 to the Present](#)
[History 1891. Understanding the Middle East since 1945: The Basic Socio-Economic and Political Structures](#)
 [History 1920 (formerly History 10c). A Global History of Modern Times]
 [*History and Literature 90q. Performing America]
[History of Science 100. Knowing the World: An Introduction to the History of Science](#)
 [History of Science 148. History of Global Health]
[Religion 1553. Gender, Discipline, and the Body in American Christianity - \(New Course\)](#)

Historical Study B

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

Catalog Number: 2567

Michael McCormick

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

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

Note: Expected to be given in 2012–13.

Historical Study B-18. The Protestant Reformation

Catalog Number: 0623

Steven Ozment

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

In the 16th century hundreds of thousands of people surrendered religious beliefs, practices, and institutions that had organized and given meaning to daily life for the greater part of a



millennium. The Protestant Reformation attempts to explain why this happened and how it changed history. Lectures, art, and readings present the movers and shakers of the Reformation; its development in representative cities and lands; its theologies and social philosophies; its impact on contemporary society and culture; the Catholic response; and its legacy to the modern world.

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

Catalog Number: 4631

James Hankins

Half course (spring term). M., W., at 1, and a weekly section to be arranged.

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 2011–12. This course, when taken for a letter grade, meets the Core area requirement for either Historical Study B or Literature and Arts C, but not both.

[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.

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 given in 2011–12.

Historical Study B-45. The Darwinian Revolution

Catalog Number: 8691

Janet Browne

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

An examination of the intellectual structure and social context of evolutionary ideas as they emerged in the 19th and 20th centuries, with particular emphasis on Darwinism as a major transformation in Western thought. Topics include an introduction to origin stories in different cultures; the natural history tradition in the West; evolutionary thought before Darwin; key aspects of Darwin’s ideas; the comparative reception of Darwinism in Britain, US, Germany, Russia and France; social Darwinism, eugenics and racial theories; early genetics and the search for the gene; religious controversy then and now.

Note: This course, when taken for a letter grade, meets the General Education requirement for Culture and Belief and fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Historical Study B.


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

Catalog Number: 3447

Hue-Tam Ho Tai and Brett Flehinger
Half course (spring term). M., W., (F.), at 10, and a weekly section to be arranged.

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

Note: Expected to be given in 2011–12.

Core and General Education courses that satisfy the Historical Study B requirement
Culture and Belief 17 (formerly Historical Studies B-06). Institutional Violence and Public Spectacle: The Case of the Roman Games
[Societies of the World 15 (formerly Historical Study B-64). The Cuban Revolution, 1956-1971: A Self-Debate]
Societies of the World 16 (formerly Literature and Arts C-61). The Rome of Augustus
[Societies of the World 20 (formerly Foreign Cultures 48). The Cultural Revolution]
Societies of the World 39 (formerly Historical Study B-52). Slavery and Slave Trade in Africa and the Americas
Societies of the World 41 (formerly History 1050). Medieval Europe
Societies of the World 42. The World Wars in Global Context, 1905-1950 - (New Course)
Societies of the World 43 (formerly Historical Study B-67). Japan's Modern Revolution
[United States in the World 12 (formerly History of Art and Architecture 17y). American Encounters: Art, Contact, and Conflict, 1560-1860]
[United States in the World 14 (formerly Historical Study B-40). Pursuits of Happiness: Ordinary Lives in Revolutionary America]
United States in the World 25 (formerly Historical Study B-61). The Warren Court and the Pursuit of Justice, 1953-1969
[United States in the World 28 (formerly Historical Study B-43).
Slavery/Capitalism/Imperialism: The US in the Nineteenth Century]
Departmental courses that satisfy the Historical Study B requirement

The following departmental courses may be taken to meet the Historical Study B requirement.

These courses are not necessarily designed for a general audience; they may assume prior experience or more than could be expected of students seeing the subject for the first time.

[Ancient Near East 104. Babylon]
Classical Studies 97b (formerly *Classics 97b). Roman Culture and Civilization
[Classical Studies 165. Ancient Medicine]
[*History 78a (formerly *History 1874). The Middle East During the First Wave of Modern Globalization, 1870-1925]
[*History 80b (formerly *History 1122). Persons and Things in Medieval Europe]



[History 1040 (formerly History 1111). The Fall of the Roman Empire]

[History 1055 (formerly History 1121). Vengeance, Hatred, and Law in Premodern Europe]

[History 1060. Europe and Its Borders, 950-1550](#)

[History 1080 (formerly History 1150). The Jews in Muslim and Christian Spain]

[History 1252 (formerly *History 72d). Paris From the French Revolution Through the 19th Century: Conference Course]

[History 1266 (formerly History 1456). Central Europe, 1789-1918: Empires, Nations, States]

[History 1282. The Russian Revolution: An International History - \(New Course\)](#)

[History 1300 \(formerly History 20a\). Western Intellectual History: Greco-Roman Antiquity](#)

[History 1301 \(formerly History 20b\). Western Intellectual History: The Middle Ages to the Seventeenth Century](#)

[History 1433. American Populisms: Thomas Jefferson to Rush Limbaugh]

[History 1457. History of American Capitalism](#)

[History 1495 \(formerly History 1672\). The US in the 1960s](#)

[History 1700 (formerly History 1904). The History of Sub-Saharan Africa to 1860]

[History 1878a. Ottoman State and Society I (1300–1550)]

[History of Science 108. Bodies, Sexualities, and Medicine in the Medieval Middle East - \(New Course\)](#)

[History of Science 111. Two Scientific Revolutions: From the Classical Age of Islamic Sciences to the Scientific World of Early Modern Europe - \(New Course\)](#)

[History of Science 112. Health, Medicine and Healing in Medieval and Renaissance Europe](#)

[History of Science 113. Crusades, Plagues and Hospitals: Medicine and Society in the Islamic Middle Ages - \(New Course\)](#)

[History of Science 129. Science in the Cold War - \(New Course\)](#)

[Japanese History 145. Lady Samurai in Medieval Japan](#)

[Japanese History 146. Kyoto: The Capital of Medieval Japan](#)

[Jewish Studies 135. Jewish-Arab Encounters: the Classical Age](#)

[Sociology 141. Social Institutions of Contemporary China]

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 Throughout the history of the novel, reading fiction has been regarded as a problem. The course explores this issue in texts from the 17th century to the present by considering a series of novels in which characters misread other books, confuse fiction with reality, model their lives too closely on characters from earlier texts, or misuse literature in the pursuit of love and friendship. Authors include Goethe, Flaubert, Rilke, Wharton, Nabokov, and Sijie.

Note: Expected to be omitted in 2011–12. This course, when taken for a letter grade, meets the General Education requirement for Aesthetic and Interpretive Understanding.

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

Catalog Number: 7991

Peter Machinist

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

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

Note: Expected to be omitted in 2011–12. This course fulfills the General Education requirement for Culture and Belief and the requirement that one of the eight General Education courses also



engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

[Literature and Arts A-86. American Protest Literature from Tom Paine to Tupac]

Catalog Number: 7442

John Stauffer

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

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

Note: Expected to be given in 2011–12.

Core and General Education courses that satisfy the Literature and Arts A requirement

[Aesthetic and Interpretive Understanding 11. Poetry Without Borders]

[Aesthetic and Interpretive Understanding 12. Poetry in America]

[Aesthetic and Interpretive Understanding 15 (formerly English 34). Elements of Rhetoric]

[Aesthetic and Interpretive Understanding 20 \(formerly Literature and Arts A-22\). Poems, Poets, Poetry](#)

[Aesthetic and Interpretive Understanding 21 \(formerly Literature and Arts A-51\). Virgil: Poetry and Reception](#)

[Aesthetic and Interpretive Understanding 22 (formerly Literature and Arts A-64). American Literature and the American Environment]

[Aesthetic and Interpretive Understanding 23 (formerly Literature and Arts A-88). Interracial Literature]

[Aesthetic and Interpretive Understanding 27 (formerly Literature and Arts A-17). Childhood: Its History, Philosophy, and Literature]

[Aesthetic and Interpretive Understanding 29 (formerly Literature and Arts A-48). Moral Imagination in Modern Jewish Literature]

[Aesthetic and Interpretive Understanding 30 \(formerly Literature and Arts A-92\). Love In A Dead Language: Classical Indian Literature and Its Theorists](#)

[Aesthetic and Interpretive Understanding 33 \(formerly Classical Studies 154\). Ancient Fictions: The Ancient Novel in Context](#)

[Aesthetic and Interpretive Understanding 34. The Art of Interpretation]

[Aesthetic and Interpretive Understanding 37. Introduction to the Bible in the Humanities and the Arts]

[Aesthetic and Interpretive Understanding 38. The English Language as Literature - \(New Course\)](#)

[Culture and Belief 29 \(formerly Humanities 12\). “Strange Mutations”: Wonder, Faith, Skepticism, and Disbelief in Western Antiquity and the Renaissance](#)

[Culture and Belief 32. Back Roads to Far Places: Literature of Journey and Quest]

[Culture and Belief 37 \(formerly Studies of Women, Gender, and Sexuality 1122\). The](#)



[Romance: From Jane Austen to Chick Lit](#)
[Culture and Belief 39 \(formerly Literature and Arts A-93\). The Hebrew Bible](#)
[Foreign Cultures 68. Authority and the Claims of the Individual in Chinese Literary Culture](#)

Departmental courses that satisfy the Literature and Arts A requirement

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

[African and African American Studies 131. African-American Literature to the 1920s](#)
[\[Celtic 137. Celtic Mythology\]](#)
[*English 90ws. Wilde and Shaw: Seminar - \(New Course\)](#)
[English 110 \(formerly *Humanities 10\). An Introductory Humanities Colloquium](#)
[English 124d. Shakespearean Tragedy - \(New Course\)](#)
[English 141. The 18th-Century Novel](#)
[English 151. The 19th-Century Novel](#)
[English 157. The Classic Phase of the Novel](#)
[*English 159. The Reflection of Reality: Novels of the 19th and 20th-Century](#)
[\[English 165. Proust, Joyce, Woolf: Aestheticism and Modernism\]](#)
[English 172d. The Nineteenth-Century American Novel](#)
[English 178x. The American Novel: Dreiser to the Present](#)
[English 180. Modern American Crime Narratives](#)
[English 196. Literature of Migration and Ethnicity: The Case of the United States](#)
[French 70a. Introduction to French Literature I: From the Middle Ages to Modernity](#)
[French 70b. Introduction to French Literature II. 19th and 20th Centuries: Moving and Shaking](#)
[French 70c. Introduction to French Literature III: The Francophone World](#)
[\[French 132b. 20th-Century French Fiction II: The Experimental Mode\]](#)
[French 161. Walk, Look, Write: Flânerie and Fugue](#)
[\[French 165. Marcel Proust\]](#)
[German 71. German Literature from Goethe to Nietzsche](#)
[German 72. German Literature from Kafka to Jelinek](#)
[\[German 166. Storytelling and Enchantment: The Brothers Grimm and Hans Christian Andersen\]](#)
[Italian 131. Authoring the *Commedia* \(Dante and the Classical Tradition\) - \(New Course\)](#)
[Literature 10 \(formerly Aesthetic and Interpretive Understanding 18\). Writing Across Cultures: Literatures of the World \(to 1750\)](#)
[Literature 101 \(formerly Literature 11\). Writing Across Cultures: Literatures of the World \(from 1750 to the present\)](#)
[\[*Literature 106. On Lyric\]](#)
[\[*Literature 121. 1001 Nights: Adaptations, Transformations and Translations\]](#)
[\[Literature 166 \(formerly Comparative Literature 166\). The Comic Tradition in Jewish Culture\]](#)
[\[Scandinavian 150. The Vikings and the Nordic Heroic Tradition\]](#)



[Slavic 152. Pushkin]

[Spanish 65. Bilingual Arts](#)

[Spanish 70a. Heroes, Rogues, and Significant Others: Voices from Medieval and Early Modern Spain](#)

[Spanish 124. Cervantes: Don Quixote]

[Spanish 129. Playing the Spaniard: The Politics and Poetics of Identity in Early Modern Spanish Theatre]

[*Studies of Women, Gender, and Sexuality 1232. Postcolonial Women's Writing]

Literature and Arts B

Literature and Arts B-49. Modernisms 1865–1968

Catalog Number: 7619

Benjamin Buchloh

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

This course introduces the complex and contradictory history of modernism in the visual arts of Europe and the US, focusing on central figures (e.g. Manet, Picasso, Duchamp, Warhol) and movements (e.g. Cubism, Dada, Soviet Avant-garde), as much as on the key concepts of that history. Lectures will emphasize the methodological diversity developed within recent art history to theorize and historicize Modernism. Readings will comprise key texts by artists, historians, and critics.

Note: This course, when taken for a letter grade, meets the General Education requirements for Aesthetic and Interpretive Understanding and Study of the Past, or the Core area requirement for Literature and Arts B.

[Literature and Arts B-52. Mozart]

Catalog Number: 3672

Robert D. Levin

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

The course will examine a different domain of Mozart's *oeuvre* each time it is taught, this time treating the duo sonatas. The origin of sonata forms precedes study of a representative selection of the 18 duo sonatas for piano and violin. Style and rhetoric will be central concerns, and attention will be given to evolution in interpretative style through listening to historic as well as recent recordings. The assigned works will be demonstrated by live performances by the professor and invited guests.

Note: Expected to be given in 2011–12.

[Literature and Arts B-54. Chamber Music from Mozart to Ravel]

Catalog Number: 46981

Robert D. Levin

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

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 2011–12.

[Literature and Arts B-82. Sayin’ Something: Jazz as Sound, Sensibility, and Social Dialogue]

Catalog Number: 9532

Ingrid Monson

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

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

Note: Expected to be given in 2011–12.

Core and General Education courses that satisfy the Literature and Arts B requirement

[Aesthetic and Interpretive Understanding 16. Openings: The Illuminated Manuscript]

[Aesthetic and Interpretive Understanding 17 (formerly Literature and Arts B-78).

Soundscapes: Exploring Music in a Changing World]

[Aesthetic and Interpretive Understanding 24 \(formerly Literature and Arts B-51\). First Nights: Five Performance Premieres](#)

[Aesthetic and Interpretive Understanding 26 (formerly Studies of Women, Gender, and Sexuality 1133). Gender and Performance]

[Aesthetic and Interpretive Understanding 31 \(formerly Literature and Arts B-85\).](#)

[American Musicals and American Culture](#)

[Aesthetic and Interpretive Understanding 40. Monuments of Islamic Architecture - \(New Course\)](#)

[Aesthetic and Interpretive Understanding 43 (formerly Literature and Arts B-35). Visual Culture of the Ottoman Empire Between East and West (15th - 17th Centuries)]

[Aesthetic and Interpretive Understanding 44. Arts of Asia - \(New Course\)](#)

[Culture and Belief 24. Gregorian Chants]

[Culture and Belief 30. Photography and Society]

[Foreign Cultures 76. Nazi Cinema: Fantasy Production in the Third Reich]

[United States in the World 12 (formerly History of Art and Architecture 17y). American Encounters: Art, Contact, and Conflict, 1560-1860]

[United States in the World 29 \(formerly Literature and Arts B-20\). Designing the American City: Civic Aspirations and Urban Form](#)

Departmental courses that satisfy the Literature and Arts B requirement

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



[African and African American Studies 121. Please, Wake Up! - Race, Gender, Class and Ethnicity in the Early Films of Spike Lee](#)

[African and African American Studies 182. R & B, Soul, and Funk]

[Anthropology 1125. The Moche of Ancient Peru: Politics, Economy, Religion and Art]

[Anthropology 1720. Anthropology, Cultural Studies, and Film]

[Anthropology 1875. Moving Pictures: An Anthropology of Images - \(New Course\)](#)

[English 198. Porgy and Bess - \(New Course\)](#)

[Folklore and Mythology 114. Embodied Expression/Expressive Body: Dance in Cultural Context](#)

[*French 148b. Mettre en scène les classiques. Monter *L'Illusion comique* - \(New Course\)](#)

[French 167. Parisian Cityscapes]

[French 184. Cinema and the *auteur*]

[History of Art and Architecture 1. Landmarks of World Art & Architecture]

[History of Art and Architecture 10. The Western Tradition: Art Since the Renaissance](#)

[History of Art and Architecture 11. Landmarks of World Architecture](#)

[History of Art and Architecture 12m. Monuments and Cities of the Islamic World: An Introduction]

[History of Art and Architecture 18k. Introduction to Japanese Art]

[History of Art and Architecture 70. Introduction to Modern Art and Visual Culture, 1700–1990s](#)

[History of Art and Architecture 120n. Art of the Timurids in Greater Iran and Central Asia]

[History of Art and Architecture 152. Italian Renaissance Art]

[History of Art and Architecture 155p. Jan van Eyck and the Rise of Painting]

[History of Art and Architecture 172w. American Art and Modernity, 1865–1965]

[History of Art and Architecture 175y. Visual Culture of Weimar Germany (1919-1937)]

[History of Art and Architecture 197. The Imperial Arts of the Inca and the Aztec](#)

[Japanese Literature 161. Introduction to Japanese Animation](#)

[Medieval Studies 107. Authority and Invention: Medieval Art and Architecture](#)

[Music 1a. Introduction to Western Music from the Middle Ages to Mozart](#)

[Music 1b. Introduction to Western Music from Beethoven to the Present](#)

[Music 2. Foundations of Tonal Music I](#)

[Music 153. Jazz Harmony](#)

[Music 159. South Indian Music Theory & Practice - \(New Course\)](#)

[Music 190gw (formerly Music 190rs). Topics in World Music: Proseminar]

[Scandinavian 115. Nordic Cinema](#)

[*Social Studies 98eo. Culture and Society](#)

[*Sociology 167. Visualizing Human Rights and Social Change in Documentary](#)

[Photography and Film](#)

[Visual and Environmental Studies 70 \(formerly Literature and Arts B-11\). The Art of Film](#)

[Visual and Environmental Studies 71. Silent Cinema](#)

[Visual and Environmental Studies 72. Sound Cinema]

[Visual and Environmental Studies 184. Imagining the City: Literature, Film, and the Arts]

[Visual and Environmental Studies 187x. From Postwar to Postwall German Cinema]

[Visual and Environmental Studies 197. The Cinema According to Alfred Hitchcock - \(New Course\)](#)



Literature and Arts C

[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.

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 given in 2011–12.

Core and General Education courses that satisfy the Literature and Arts C requirement

[Aesthetic and Interpretive Understanding 13 \(formerly Spanish 180\). Cultural Agents Aesthetic and Interpretive Understanding 14 \(formerly Literature and Arts C-56\). Putting Modernism Together](#)

[Aesthetic and Interpretive Understanding 25 \(formerly Literature and Arts C-55\). Surrealism: Avant-Garde Art and Politics between the Wars](#)

[Aesthetic and Interpretive Understanding 32 (formerly Literature and Arts C-51). Revolution and Reaction: The Rise and Fall of the Russian Avant-Garde]

[Aesthetic and Interpretive Understanding 41 \(formerly Literature and Arts C-30\). How and What Russia Learned to Read: The Rise of Russian Literary Culture](#)

[Aesthetic and Interpretive Understanding 42. Literature and Revolution: Great Books in Moments of Cultural Transformation](#)

[Aesthetic and Interpretive Understanding 45 \(formerly Foreign Cultures 72\). Art and Politics in Russia and Eastern Europe](#)

[Culture and Belief 12. For the Love of God and His Prophet: Religion, Literature, and the Arts in Muslim Cultures]

[Culture and Belief 13. The Contested Bible: The Sacred-Secular Dance](#)

[Culture and Belief 15. The Presence of the Past]

[Culture and Belief 16 \(formerly Folklore and Mythology 100\). Performance, Tradition and Cultural Studies: An Introduction to Folklore and Mythology](#)

[Culture and Belief 22. The Heroic and the Anti-Heroic in Classical Greek Civilization](#)

[Culture and Belief 23 (formerly Literature and Arts C-70). From the Hebrew Bible to Judaism, From the Old Testament to Christianity]

[Culture and Belief 27 \(formerly Jewish Studies 55\). Among the Nations: Jewish History in Pagan, Christian and Muslim Context](#)

[Culture and Belief 28. Hindu Worlds of Art and Culture]

[Culture and Belief 33. Introduction to the Study of East Asian Religions](#)

[Culture and Belief 35. Classical Mythology]

[Culture and Belief 38 (formerly Literature and Arts C-28). Icon, Ritual, Text: Reading the Culture of Medieval Rus']

[Culture and Belief 40 \(formerly Foreign Cultures 67\). Popular Culture and Modern China](#)



[Culture and Belief 43. The World of Yiddish - \(New Course\)](#)

[Culture and Belief 44. The Cradle of History: Ancient Historians and their Afterlives - \(New Course\)](#)

[East Asian Studies 120. Melodrama in East Asian Cinema - \(New Course\)](#)

[\[Historical Study B-19. The Renaissance in Florence\]](#)

[Societies of the World 16 \(formerly Literature and Arts C-61\). The Rome of Augustus](#)
[United States in the World 23 \(formerly English 177\). Art and Thought in the Cold War](#)
[*United States in the World 32 \(formerly Religion 1007\). The World's Religions in](#)
[Multicultural America: Case Studies in Religious Pluralism](#)

Departmental courses that satisfy the Literature and Arts C requirement

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

[\[Chinese 187. Art and Violence in the Cultural Revolution\]](#)

[East Asian Studies 120. Melodrama in East Asian Cinema - \(New Course\)](#)

[Folklore and Mythology 126. Continuing Oral Traditions in Indigenous Communities](#)

[\[French 129. Les masques de l'homme de cour : civilité et société au XVIIe siècle\]](#)

[\[French 274. Hybridization, Intertextuality and Métissage in Literatures from Mauritius, La Réunion & the Caribbean\]](#)

[Japanese Literature 162. Girl Culture, Media, and Japan](#)

[*Literature 146 \(formerly *Literature 124\). Space and Place in Postmodern Culture](#)

[Literature 157 \(formerly Comparative Literature 111\). From Type to Self in the Middle Ages](#)

[Literature 165. The Holocaust and Problems of Representation - \(New Course\)](#)

[\[Slavic 148. Strange Russian Writers\]](#)

[\[Spanish 70c. Documenting Spanish Modernity: A Survey of Spanish Literature and Culture from 1700\]](#)

[Spanish 71b. Introduction to Modern Latin American Literature](#)

[Spanish 90j. La juventud latinoamericana en el cine y la literatura](#)

[Spanish 110. Hispanic Literature: The Middle Ages](#)

[\[Studies of Women, Gender, and Sexuality 1154. I Like Ike, But I Love Lucy: Women, Popular Culture, and the 1950s\]](#)

Moral Reasoning

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

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



Moral Reasoning

Core and General Education courses that satisfy the Moral Reasoning requirement

[Culture and Belief 14. Human Being and the Sacred in the History of the West]
[Ethical Reasoning 11. Human Rights: A Philosophical Introduction](#)
 [Ethical Reasoning 12. Political Justice and Political Trials]
 [Ethical Reasoning 13 (formerly Moral Reasoning 56). Self, Freedom, and Existence]
[Ethical Reasoning 14 \(formerly Moral Reasoning 33\). Issues in Ethics](#)
 [Ethical Reasoning 15 (formerly Moral Reasoning 54). “If There is No God, All is Permitted:” Theism and Moral Reasoning]
 [Ethical Reasoning 16 (formerly Moral Reasoning 58). Slavery in Western Political Thought]
 [Ethical Reasoning 17 (formerly Moral Reasoning 76). Comparative Religious Ethics]
[Ethical Reasoning 18 \(formerly Moral Reasoning 78\). Classical Chinese Ethical and Political Theory](#)
 [Ethical Reasoning 20 (formerly Humanities 11). Self, Serenity, and Vulnerability: East and West]
[Ethical Reasoning 21 \(formerly Moral Reasoning 66\). Moral Reasoning about Social Protest](#)
[Ethical Reasoning 22 \(formerly Moral Reasoning 22\). Justice](#)
 [Ethical Reasoning 23 (formerly Moral Reasoning 82). Trust, Vision, and Doubt in Ethics, Politics, and Law]
[Ethical Reasoning 24. Bioethics](#)
[Ethical Reasoning 26. The Ethics of Atheism: Marx, Nietzsche, Freud - \(New Course\)](#)
[Ethical Reasoning 27 \(formerly Moral Reasoning 28\). Ethics and International Relations](#)
[Ethical Reasoning 28. Moral Inquiry in the Novels of Tolstoy and Dostoevsky - \(New Course\)](#)
[Ethical Reasoning 29. Social Theory, the Humanities, and Philosophy Now - \(New Course\)](#)
[United States in the World 20 \(formerly Moral Reasoning 74\). The Theory and Practice of Republican Government](#)

Departmental courses that satisfy the Moral Reasoning requirement

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

[Government 10. Foundations of Political Theory](#)
[Government 1060. Ancient and Medieval Political Philosophy](#)
[Government 1061. The History of Modern Political Philosophy](#)
[Government 1082. What is Property?](#)
 [Government 1093. Ethics, Biotechnology, and the Future of Human Nature]
[Government 1511. The Constitution and the American Political System](#)
[History 1300 \(formerly History 20a\). Western Intellectual History: Greco-Roman Antiquity](#)



[Life Sciences 60 (formerly MCB 60). Ethics, Biotechnology, and the Future of Human Nature]

[Philosophy 168. Kant's Ethical Theory]

[Philosophy 172. The History of Modern Moral Philosophy](#)

[Philosophy 173. Metaethics]

[Philosophy 174. Recent Ethical Theory]

[Philosophy 178. Equality and Democracy](#)

[Philosophy 179. Race and Social Justice](#)

[Religion 56. Existentialism and Religion](#)

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

Core and General Education courses that satisfy the Quantitative Reasoning requirement

[Empirical and Mathematical Reasoning 11. Making Sense: Language, Logic, and Communication](#)

[Empirical and Mathematical Reasoning 12 \(formerly Quantitative Reasoning 48\). Bits](#)

[Empirical and Mathematical Reasoning 14. Fat Chance](#)

[Empirical and Mathematical Reasoning 15 \(formerly Quantitative Reasoning 50\). Medical Detectives](#)

[Empirical and Mathematical Reasoning 16 \(formerly Statistics 105\). Real-Life Statistics: Your Chance for Happiness \(or Misery\)](#)

[Empirical and Mathematical Reasoning 17 \(formerly Quantitative Reasoning 22\). Deductive Logic](#)

[Empirical and Mathematical Reasoning 18. What are the odds?](#)

[[Empirical and Mathematical Reasoning 19 \(formerly Quantitative Reasoning 46\). The Visual Display of Information: The Art of Numbers](#)]

[Empirical and Mathematical Reasoning 20 \(formerly Quantitative Reasoning 24\). The Business and Politics of Health](#)

[Science of the Physical Universe 26. Primitive Navigation - \(New Course\)](#)

[Societies of the World 24. Global Health Challenges: Complexities of Evidence-based Policy](#)

Departmental courses that satisfy the Quantitative Reasoning requirement



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

[Applied Mathematics 21a. Mathematical Methods in the Sciences](#)
[Applied Mathematics 21b. Mathematical Methods in the Sciences](#)
[Applied Mathematics 101. Statistical Inference for Scientists and Engineers](#)
[Computer Science 1. Great Ideas in Computer Science](#)
[Computer Science 50. Introduction to Computer Science I](#)
[Computer Science 171. Visualization](#)
[Economics 1123. Introduction to Econometrics](#)
[Economics 1126. Quantitative Methods in Economics](#)
[Government 50. Introduction to Political Science Research Methods](#)
[*Government 1000. Quantitative Methods for Political Science I](#)
[Government 1328. Electoral Politics - \(New Course\)](#)
[Mathematics 1a. Introduction to Calculus](#)
[Mathematics 1b. Calculus, Series, and Differential Equations](#)
[Mathematics 19a. Modeling and Differential Equations for the Life Sciences](#)
[Mathematics 19b. Linear Algebra, Probability, and Statistics for the Life Sciences](#)
[Mathematics 20. Algebra and Multivariable Mathematics for Social Sciences](#)
[Mathematics 21a. Multivariable Calculus](#)
[Mathematics 21b. Linear Algebra and Differential Equations](#)
[Mathematics 23a. Linear Algebra and Real Analysis I](#)
[Mathematics 23b. Linear Algebra and Real Analysis II](#)
[Mathematics 25a. Honors Linear Algebra and Real Analysis I](#)
[Mathematics 25b. Honors Linear Algebra and Real Analysis II](#)
[*Mathematics 55a. Honors Abstract Algebra](#)
[Mathematics 55b. Honors Real and Complex Analysis](#)
[Mathematics 101. Sets, Groups and Topology](#)
[Mathematics 154 \(formerly Mathematics 191\). Probability Theory](#)
[Psychology 1900. Introduction to Statistics for the Behavioral Sciences](#)
[*Sociology 156. Quantitative Methods in Sociology](#)
[Statistics 100. Introduction to Quantitative Methods for the Social Sciences and Humanities](#)
[Statistics 101. Introduction to Quantitative Methods for Psychology and the Behavioral Sciences](#)
[Statistics 104. Introduction to Quantitative Methods for Economics](#)
[Statistics 110. Introduction to Probability](#)

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

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

Science



AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

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

Science A

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

Science B

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

Science A

Core and General Education courses that satisfy the Science A requirement

- [Science of the Physical Universe 12 \(formerly Science A-43\). Natural Disasters](#)
- [Science of the Physical Universe 13 \(formerly Science A-49\). The Physics of Music and Sound](#)
- [\[Science of the Physical Universe 15 \(formerly Science A-45\). Reality Physics\]](#)
- [Science of the Physical Universe 17 \(formerly Science A-41\). The Einstein Revolution](#)
- [\[Science of the Physical Universe 18 \(formerly Science A-39\). Time\]](#)
- [Science of the Physical Universe 19 \(formerly Science A-35\). The Energetic Universe](#)
- [Science of the Physical Universe 20. What is Life? From Quarks to Consciousness](#)
- [Science of the Physical Universe 21 \(formerly Science A-36\). Stellar Measures of the Universe](#)
- [Science of the Physical Universe 22. The Unity of Science: From the Big Bang to the Brontosaurus and Beyond](#)
- [\[Science of the Physical Universe 23 \(formerly Science A-29\). The Nature of Light and Matter\]](#)
- [*Science of the Physical Universe 24. Introduction to Technology and Society](#)
- [Science of the Physical Universe 25. Energy: Perspectives, Problems and Prospects](#)
- [Science of the Physical Universe 26. Primitive Navigation - \(New Course\)](#)
- [Science of the Physical Universe 27. Science and Cooking: From Haute Cuisine to Soft Matter Science - \(New Course\)](#)
- [Science of the Physical Universe 28 \(formerly Science A-50\). Invisible Worlds](#)



[*Science of the Physical Universe 29. The Climate-Energy Challenge - \(New Course\)](#)
[Science of the Physical Universe 30 \(formerly Science A-54\). Life as a Planetary Phenomenon](#)

Departmental courses that satisfy the Science A requirement

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

[Astronomy 16. Stellar and Planetary Astronomy](#)
[Astronomy 17. Galactic and Extragalactic Astronomy](#)
[Chemistry 17. Principles of Organic Chemistry](#)
[Chemistry 20. Organic Chemistry](#)
[Chemistry 27. Organic Chemistry of Life](#)
[Chemistry 30. Organic Chemistry](#)
[Earth and Planetary Sciences 5. Introduction to Environmental Science: Atmosphere, Ocean, and Biosphere](#)
[Earth and Planetary Sciences 7. Introduction to Geological Sciences](#)
[Earth and Planetary Sciences 109. Earth Resources and the Environment](#)
[Earth and Planetary Sciences 133. Atmospheric Chemistry](#)
[*Engineering Sciences 1. Introduction to Engineering Sciences](#)
[*Engineering Sciences 50. Introduction to Electrical Engineering](#)
[Life and Physical Sciences A. Foundational Chemistry and Biology](#)
[Life Sciences 1a. An Integrated Introduction to the Life Sciences: Chemistry, Molecular Biology, and Cell Biology](#)
[Physical Sciences 1. Chemical Bonding, Energy, and Reactivity: An Introduction to the Physical Sciences](#)
[Physical Sciences 2. Mechanics, Elasticity, Fluids, and Diffusion](#)
[Physical Sciences 3. Electromagnetism, Circuits, Waves, Optics, and Imaging](#)
[Physics 11a. Mechanics](#)
[Physics 11b. Electricity, Magnetism, and Waves](#)
[Physics 15a. Introductory Mechanics and Relativity](#)
[Physics 15b. Introductory Electromagnetism](#)
[Physics 15c. Wave Phenomena](#)
[Physics 16. Mechanics and Special Relativity](#)
[Physics 123. Laboratory Electronics](#)
[Physics 125. Widely Applied Physics](#)

Science B

Core and General Education courses that satisfy the Science B requirement

[Science of Living Systems 11. Molecules of Life](#)
[Science of Living Systems 12. Understanding Darwinism](#)
[Science of Living Systems 15 \(formerly Science B-60\). Origins of Knowledge](#)



[Science of Living Systems 16. Human Evolution and the Human Body](#)

[Science of Living Systems 17 \(formerly Science B-23\). The Human Organism](#)

[Science of Living Systems 18 (formerly Science B-65). Evolutionary Biology: Sex, Survival, and the Orgy of Species]

[Science of Living Systems 19. Nutrition and Global Health](#)

[Science of Living Systems 20. Psychological Science](#)

[Science of Living Systems 21. Evolutionary Medicine - \(New Course\)](#)

[Science of Living Systems 22. Human Influence on Life in the Sea - \(New Course\)](#)

[Science of Living Systems 23. Outbreak: Evolution, Genomics and Infectious Disease] - (New Course)

[*Science of Living Systems 24. From Neurons to Nations: The Science of Early Childhood Development and the Foundations of a Successful Society - \(New Course\)](#)

[Science of Living Systems 25 \(formerly Science B-40\). Trees, Forests and Global Change](#)

[Science of the Physical Universe 14 (formerly Science B-35). How to Build a Habitable Planet]

[Science of the Physical Universe 20. What is Life? From Quarks to Consciousness](#)

[Science of the Physical Universe 22. The Unity of Science: From the Big Bang to the Brontosaurus and Beyond](#)

Departmental courses that satisfy the Science B requirement

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

[Engineering Sciences 6. Environmental Science and Technology](#)

[Human Evolutionary Biology 1310. Hormones and Behavior](#)

[Life and Physical Sciences A. Foundational Chemistry and Biology](#)

[Life Sciences 1b. An Integrated Introduction to the Life Sciences: Genetics, Genomics, and Evolution](#)

[Life Sciences 2. Evolutionary Human Physiology and Anatomy](#)

[MCB 52. Molecular Biology](#)

[MCB 54. Cell Biology](#)

[MCB 80. Neurobiology of Behavior](#)

[MCB 131. Computational Neuroscience]

[*MCB 142. Major Advances in Classical and Molecular Genetics]

[OEB 10. Foundations of Biological Diversity](#)

[OEB 52 \(formerly OEB 124\). Biology of Plants](#)

[OEB 53 \(formerly Biological Sciences 53\). Evolutionary Biology](#)

[OEB 54. Biology of the Fungi](#)

[OEB 55 \(formerly Biological Sciences 55\). Ecology: Populations, Communities, and Ecosystems](#)

[OEB 57 \(formerly Biological Sciences 57\). Animal Behavior](#)

[OEB 59 \(formerly OEB 104\). Plants and Human Affairs](#)

[OEB 139. Evolution of the Vertebrates](#)

[OEB 145. Genes and Behaviors]



[Psychology 13. Cognitive Psychology](#)

[Psychology 15. Social Psychology](#)

[*Psychology 16. Developmental Psychology: Psychology of Early Childhood](#)

[Psychology 18. Abnormal Psychology](#)

[Psychology 1201. Your Brain on Drugs: Psychopharmacology](#)

[SCRB 10. Human Developmental and Regenerative Biology](#)

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 50. Urban Revolutions: Archaeology and the Investigation of Early States](#)

Catalog Number: 4409

C. C. Lamberg-Karlovsky

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

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

Note: Expected to be omitted in 2011–12. No previous knowledge of archaeology is necessary.

[Social Analysis 52. The Political Economy of Development](#)

Catalog Number: 1879

Robert H. Bates

Half course (fall term). M., W., at 3, and a weekly section to be arranged. EXAM GROUP: 8

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

Note: This course, when taken for a letter grade, meets the General Education requirement for Societies of the World or the Core area requirement for Social Analysis.



[Social Analysis 70. Food and Culture]

Catalog Number: 3940

Theodore C. Bestor

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

Food is examined for its social and cultural implications; nutritional or dietetic concerns are of secondary interest. Topics include food taboos and restrictions, gift giving and reciprocity, food symbolism and social boundaries, food panics, globalization of food industries, food security and agroterrorism, and the world standardization of food preferences. Examples are drawn from China, Japan, Korea, India, Latin America, Africa, Europe, the Pacific, and the US.

Note: Expected to be given in 2011–12.

Core and General Education courses that satisfy the Social Analysis requirement

[Empirical and Mathematical Reasoning 13 (formerly Social Analysis 46). Analyzing Politics]

[Societies of the World 24. Global Health Challenges: Complexities of Evidence-based Policy](#)

[Societies of the World 25 \(formerly Anthropology 1825\). Health, Culture and Community: Case Studies in Global Health](#)

[Societies of the World 29. Inequality and Society in 21st Century East Asia]

[Societies of the World 31. Political Economy After The Crisis](#)

[Societies of the World 40 \(formerly Anthropology 1174\). The Incas: The Last Great Empire of Pre-Columbian South America](#)

[Societies of the World 44. Human Trafficking, Slavery and Abolition in the Modern World - \(New Course\)](#)

[Studies of Women, Gender, and Sexuality 1163. Cultures of Sexuality in Global Perspective - \(New Course\)](#)

[United States in the World 11. American Health Care Policy](#)

[United States in the World 15 \(formerly Social Analysis 66\). Is the American Racial Order Being Transformed?](#)

[United States in the World 17 \(formerly Social Analysis 72\). Economics: A Critical Approach](#)

[United States in the World 24 \(formerly Sociology 19\). Reinventing Boston: The Changing American City](#)

[United States in the World 31 \(formerly Social Analysis 54\). American Society and Public Policy](#)

Departmental courses that satisfy the Social Analysis requirement

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

[Anthropology 1010. The Fundamentals of Archaeological Methods & Reasoning](#)

[Anthropology 1090. Ethnography and Archaeology]

[Anthropology 1640. Language and Culture](#)



[*Computer Science 105 \(formerly Computer Science 199r\). Privacy and Technology](#)
[Economics 10 \(formerly Social Analysis 10\). Principles of Economics](#)
[Economics 1010a. Microeconomic Theory](#)
[Economics 1010b. Macroeconomic Theory](#)
[Economics 1011a. Microeconomic Theory](#)
[Economics 1011b. Macroeconomic Theory](#)
[\[Economics 1356. Economics of Work and Family\]](#)
[Government 20. Foundations of Comparative Politics](#)
[Government 30. American Government: A New Perspective](#)
[Government 1100. Political Economy of Development](#)
[\[Government 1295. Comparative Politics in Latin America\]](#)
[Government 1780. International Political Economy](#)
[Linguistics 110. Introduction to Linguistics](#)
[Sociology 24. Introduction to Social Inequality](#)
[\[Sociology 25. Introduction to the Sociology of Organizations\]](#)
[Sociology 43. Social Interaction](#)
[\[Sociology 145. Urban Social Problems\]](#)
[Sociology 165. Inequalities in Health Care](#)
[Sociology 190. Life and Death in the US: Medicine and Disease in Social Context](#)
[Studies of Women, Gender, and Sexuality 1163. Cultures of Sexuality in Global Perspective](#)
[- \(New Course\)](#)
[Studies of Women, Gender, and Sexuality 1168. Education, Race, and Gender in the United States](#)

Freshman Seminars and House Seminars

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Committee on Freshman Seminars

Jay M. Harris, Harry Austryn Wolfson Professor of Jewish Studies (*Chair*)
Lawrence Buell, Powell M. Cabot Professor of American Literature (*on leave 2010-11*)
J. Woodland Hastings, Paul C. Mangelsdorf Professor of Natural Sciences
John W. Hutchinson, Abbott and James Lawrence Professor of Engineering and Gordon McKay Professor of Applied Mechanics
Andrew H. Knoll, Fisher Professor of Natural History and Professor of Earth and Planetary Sciences
Melissa M. McCormick, Professor of Japanese Art and Culture
Sandra Naddaff, Senior Lecturer on Literature and Comparative Literature (*Director of the Freshman Seminar Program, ex officio*)
D. N. Rodowick, William R. Kenan, Jr. Professor of Visual and Environmental Studies
Stephanie Sandler, Ernest E. Monrad Professor of Slavic Languages and Literatures (*on leave*)



2010-11)

Daniel L. Smail, Professor of History

Justin Weir, Professor of Slavic Languages and Literatures

The Freshman Seminar Program

Freshman Seminars are designed to intensify the intellectual experience of incoming undergraduates by allowing them to work closely with faculty members on topics of mutual interest. Enrollment is limited to the first two terms of students who enter as freshmen. Freshman Seminars are graded SAT/UNS and may not be audited. For information on the Freshman Seminar Program, please visit our website at www.freshmanseminars.college.harvard.edu.

Freshman Seminars 2010-11

***Freshman Seminar 21n. Imaging: Principles and Biomedical Applications - (New Course)**

Catalog Number: 10849 Enrollment: Limited to 15.

Andres Leschziner

Half course (spring term). Th., 3–5:30.

Imaging is everywhere in today's world, from the cutting-edge techniques used in science and medicine to the more mundane applications we take for granted--cell phone cameras, holograms, etc. How does it all work? What are the common principles behind these techniques and devices? This course will draw from phenomena we experience in daily life and from experiments we can perform in the classroom to understand how advanced imaging techniques work.

Note: Open to Freshmen only.

***Freshman Seminar 21o. The Neurophysiology of Visual Perception**

Catalog Number: 7584 Enrollment: Limited to 12.

David H. Hubel (Medical School)

Half course (fall term). Th., 3:15–6.

How do the eyes and brain of higher mammals (including humans) deal with visual information originating in the outside world? Starts with brief survey of mammalian brain neuroanatomy and cell-level neurophysiology (nerve conduction, synapses). Covers neurophysiology of the visual path from retina to cortex, with emphasis on transformations in information that occur at each successive level. Studies main components of visual perception: form, color, movement, depth, and considers the bearing of these on art.

Note: Meets at the Medical School. Open to Freshmen only.

***Freshman Seminar 21p. Materials, Energy, and Society**

Catalog Number: 74031 Enrollment: Limited to 15. There are no prerequisites.

David R. Clarke

Half course (spring term). M., 2–6.

Advances in materials and energy technology have paced the development of Society from the Stone Age to the present. Today, we are facing an over-reliance on fossil fuels, a growing population, and its consequences on Global Warming. Starting with our current and anticipated future energy needs, this course, which includes substantial weekly laboratory content, explores



the role of materials in evolving alternative energy technologies as well as their impact on worldwide resources.

Note: Open to Freshmen only.

Prerequisite: This course is for non-SEAS students.

***Freshman Seminar 21q. Biological Impostors: Mimicry and Camouflage in Nature**

Catalog Number: 8762 Enrollment: Limited to 15.

Michael R. Canfield

Half course (spring term). Th., 2:30–4:30.

Plants and animals imitate one another and their surroundings to escape notice and avoid predators. This seminar explores the evolution of mimicry and camouflage using case studies that reveal the range of visual, behavioral, acoustical, and chemical means by which this deception is accomplished.

Note: Open to Freshmen only.

***Freshman Seminar 21s. Germs**

Catalog Number: 2067 Enrollment: Limited to 15.

Ralph Mitchell

Half course (fall term). W., 1–4:30.

Germs are responsible for the disruption of whole civilizations and for the maintenance of the ecological balance on planet Earth. Explores the importance of germs as causative agents of disease in humans, animals, and plants and emerging diseases. Investigates why epidemics occur, the role of germs in the control of the ecological balance on Earth -- how microbes affect the cycling of elements, and climate control. Are there dangers to inserting microbial genes into crops?

Note: Open to Freshmen only.

***Freshman Seminar 21t. Interplay of Host Cells and Viruses: the Case of HIV - (New Course)**

Catalog Number: 32821 Enrollment: Limited to 15.

Victoria M. D'Souza

Half course (spring term). W., 3–5.

Combating the Human Immunodeficiency Virus (HIV) has thus far proven to be a formidable task. This seminar looks at the molecular organization of the virus and the various strategies it uses to manipulate the host cell for optimal replication. The seminar will also focus on the approaches used by HIV to evade the various defense mechanisms in place within the host cell. Wide range of techniques- from structural biology to systems biology- will be discussed.

Note: Open to Freshmen only.

***Freshman Seminar 21u. Calculating Pi**

Catalog Number: 4737 Enrollment: Limited to 12.

Paul G. Bamberg

Half course (fall term). W., 2–5.

Focuses on mathematical, computational, and historical aspects of calculating pi. Many great mathematicians, including Archimedes, Newton, Gauss, and Euler, worked on the problem. Explores a wide variety of methods for computing pi and their implementation in Mathematica



on a personal computer. Geometry and calculus used to prove the correctness of these methods and assess their accuracy, and then methods used to calculate pi to a large number of decimal places.

Note: Open to Freshmen only.

Prerequisite: Calculus

***Freshman Seminar 21w. Research at the Harvard Forest: Global Change Ecology-Forests, Ecosystem Function, the Future**

Catalog Number: 0060 Enrollment: Limited to 11.

David R. Foster

Half course (spring term). Four weekends at the Harvard Forest in Petersham, MA.

This course explores state-of-the-art research, tools and measurements used to investigate and predict climate change through ongoing studies at the Harvard Forest's 3,000 acre outdoor laboratory in Petersham, MA. The seminar consists of three weekend-long field trips (Friday evening-Sunday) to the Harvard Forest and a final on-campus meeting. Students develop skills for evaluating, discussing, and presenting the ecological evidence for climate change, including feedbacks between forests and the atmosphere and long-term impacts on forest ecosystems.

Note: Open to Freshmen only. Four weekends at the Harvard Forest in Petersham, MA (Fri, 3pm-Sun, late afternoon) dates TBA. Transportation, accommodations, and meals at the Harvard Forest will be provided.

***Freshman Seminar 21x. Galaxies and the Universe**

Catalog Number: 4075 Enrollment: Limited to 15.

Charles Alcock

Half course (fall term). M., 2–5:30.

Explores the properties of galaxies and the basic observations that lend support to the current cosmological model, the hot Big Bang, and recent observations that indicate that the Universe might even be accelerating. Topics covered include the internal structure and dynamics of galaxies, cosmological models, the determination of the cosmic distance scale, observations of large-scale structure in the universe, quasars, galaxy formation, and the age, size, and fate of the universe. Seminar includes a class project.

Note: Open to Freshmen only.

***Freshman Seminar 21y. The Art and Politics of Molecular Biology**

Catalog Number: 89138 Enrollment: Limited to 15.

Roberto G. Kolter (Medical School)

Half course (fall term). W., 2–4.

Objectivity is important in carrying out scientific research, yet it is clear that there are elements of creativity and politics that shape the practice and communication of science. This course explores how individual creativity and political behavior influence scientific pursuits in molecular biology. Harold Varmus' memoir "The Art and Politics of Science" is read and discussed, followed by diverse activities, including viewing and discussing films that broach scientific topics, e.g. "DNA Story" and "GATTACA".

Note: Open to Freshmen only.



***Freshman Seminar 22g. Plants and Climate Change - (New Course)**

Catalog Number: 63035 Enrollment: Limited to 15.

Andrew Richardson

Half course (fall term). M., 2–4.

Plants are remarkable organisms: they convert the sun's energy into chemical bonds that provide food for the biosphere's consumers, including humans. This seminar focuses on questions related to the effects of climate change on the world of plants. We will discuss impacts of climate change on the ecology of both natural and managed ecosystems and ask how these impacts may influence human societies and the health of our planet. Climate change skeptics are welcome.

Note: Open to Freshmen only.

***Freshman Seminar 22i. The Science of Sailing**

Catalog Number: 7269 Enrollment: Limited to 12.

Jeremy Bloxham

Half course (fall term). W., 6–8 p.m.

Explores basic physical principles through sailing. Sailboats are driven by the flow of wind across their sails. How does this generate a driving force, how is that force balanced, and how does it scale with the size of the sailboat? Studies the environment in which a sailboat operates, including the origin and variability of the wind, and the interaction of wind with water.

Addresses questions of strategy and tactics faced by sailors on race courses.

Note: Open to Freshmen only.

Prerequisite: Participants in this seminar should have a good high school physics background and have some knowledge of sailing.

***Freshman Seminar 22j. Seeing by Spectroscopy**

Catalog Number: 4039 Enrollment: Limited to 15.

William Klemperer

Half course (spring term). W., 2–4.

Explores diverse topics and areas of science in which spectroscopy-the observation of energy emitted from a radiant source-plays a leading role. Concentrates on selected topics from chemistry, physics, astronomy, and atmospheric science. Emphasizes spectroscopy as the basis for remote sensing, choosing the grand topic of looking out-astronomical observations and seeing what is in the universe. Participants also will study (Nuclear) Magnetic Resonance Imaging as a model for looking in.

Note: Open to Freshmen only.

***Freshman Seminar 22m. The Human Brain**

Catalog Number: 6810 Enrollment: Limited to 13. Prerequisite: High school science

John E. Dowling

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

Investigates human brain function through famous neurological cases and what we have learned from them: Broca's patient "Tan" whose case led to the identification of one of the brain's language areas; Phineas Gage, whose injury to a specific brain region changed his personality dramatically; and patient HM who, after brain surgery, no longer could remember things for more than a few minutes. Readings will be from my book *Creating Mind*.



Note: Open to Freshmen only. This seminar is designed for non-science concentrators.

Prerequisite: High school science.

***Freshman Seminar 22n. Slips of the Ear**

Catalog Number: 31415 Enrollment: Limited to 15.

Michael Becker

Half course (fall term). W., 1–3.

Little scientific attention has been paid to "slips of the ear", during which listeners perceive something that was not what was actually said. In this freshman seminar, students keep a weekly journal of naturally occurring slips of the ear that they observe in their daily lives, report on them in class, and learn the methods of phonetic and semantic analysis that enable making sense of why these slips happen when and to whom.

Note: Open to Freshmen only.

***Freshman Seminar 22t. Why We Animals Sing (the ways we do)**

Catalog Number: 22509 Enrollment: Limited to 15.

Brian D. Farrell

Half course (spring term). W., 2–4.

We will become familiar with sounds and structures of the different kinds of acoustic animals, including birds, mammals, frogs and insects, and the different kinds of habitats in which they produce their songs and calls. We will learn to imitate other species by slowing down their calls and will explore the evolution and biology of music in humans. The capstone will be a performance in the Harvard Museum of Natural History at semester's end.

Note: Open to Freshmen only.

***Freshman Seminar 22w. Environmental Epigenetics - (New Course)**

Catalog Number: 21825 Enrollment: Limited to 15.

Nicole J. Francis

Half course (spring term). W., 3–6.

Why do plants flower in spring, but not in fall? Why don't identical twins get the same diseases? How do early life chemical exposures affect disease susceptibility or severity in adults? The course will explore the concepts, phenomena, and mechanisms of epigenetics. We will consider the implications of epigenetics for disease prevention. Finally, we will consider the evolutionary implications of the possibility that experiences of the parent can be molecularly transmitted to offspring.

Note: Open to Freshmen only.

***Freshman Seminar 22z. Quantitative Methods in Public Policy Decisions**

Catalog Number: 8839 Enrollment: Limited to 12.

Richard Wilson

Half course (fall term). W., 2–5:30.

The seminar will apply scientifically quantitative methods to understanding a number of problems of general public concern, and provide insight into the roles of a scientist in public affairs by understanding diverse problems of the environment, pollution, and public health. The topics will be selected in the first two weeks from those that are topical at the time.

Note: Open to Freshmen only.



***Freshman Seminar 23e. The Scientific Method: A Roadmap to Knowledge - (New Course)**

Catalog Number: 14833 Enrollment: Limited to 15.

Robert Sackstein

Half course (spring term). Tu., 4:30–6:30.

This course is designed to provide a working knowledge of the scientific method, thereby fostering development of fundamental skills in logic and experimental design. The various forms of reasoning (deductive, inductive, abductive) will be discussed in context of the practice of science. Through critical analysis of historical and contemporary scientific reports, students will gain an understanding of creating appropriate hypotheses, of controlled experimentation, and of the breadth and limits of conclusions drawn from experimental data.

Note: Open to Freshmen only.

***Freshman Seminar 23k. Insights from Narratives of Illness**

Catalog Number: 1904 Enrollment: Limited to 12.

Jerome E. Groopman (Medical School)

Half course (spring term). W., 1–3.

A physician occupies a unique perch, regularly witnessing life's great mysteries; it is no wonder that narratives of illness have been of interest to both physician and non-physician writers.

Examines and interrogates both literary and journalistic dimensions of medical writing from Tolstoy to Oliver Sacks as well as newspapers and periodicals. Studies not only mainstream medical journalists, but so called alternative medical writers such as Andrew Weil also. Work with different forms of medical writing.

Note: Open to Freshmen only.

***Freshman Seminar 23l. Medicine, Law, and Ethics: An Introduction**

Catalog Number: 4235 Enrollment: Limited to 15.

Shahram Khoshbin (Medical School)

Half course (spring term). M., Th., 7–9 p.m.

Explores medical, legal, and ethical aspects of medical care, with particular attention to medical decision-making at the beginning and end of life, participants in research on human subjects, human reproductive technologies, mental illness, and experimentation on animals. Historical background of present-day medical practices and relevant law to be discussed.

Note: Open to Freshmen only.

Prerequisite: All students are welcome, but this seminar is particularly geared to pre-medical and pre-law students. Students are advised that this course is intended to be introductory. Students who have participated in debate or who are looking for an advanced debate course should not take this course..

***Freshman Seminar 23m. Nutrition and Public Health**

Catalog Number: 8823 Enrollment: Limited to 12.

Clifford Lo

Half course (fall term). Tu., 6:30–8:30 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: Open to Freshmen only. Clinical rounds with Nutrition Support Services at Children's Hospital are optional.

***Freshman Seminar 23n. Evolutionary Arms Races-From Genes to Societies - (New Course)**

Catalog Number: 84343 Enrollment: Limited to 12.

Kirsten Bomblies

Half course (fall term). M., 3–5.

Competition and conflict are common in biology - e.g. predator-prey or host-pathogen interactions - with important implications in evolution and human health. Conflicts of interest almost inevitably set in motion perpetually evolving counterstrategies, a pattern similar to the arms races in human society. This seminar will focus on these patterns in biology and compare and contrast them with those in society. We will consider outcomes, and explore the utility of using such analogies across systems.

Note: Open to Freshmen only.

***Freshman Seminar 23o. Evolution of Aging**

Catalog Number: 3444 Enrollment: Limited to 15.

Anne E. Pringle

Half course (spring term). M., 2–4.

How do we age? WHY do we age? If natural selection can effectively build "better" organisms, should organisms be immortal? This seminar explores both the mechanisms that cause aging, and the hypotheses used to explain its evolution. We will focus on human data and the genetics of aging in human populations, but use examples from across the domains of life to illustrate that aging is a universal phenomenon.

Note: Open to Freshmen only.

***Freshman Seminar 23s. The Seven Sins of Memory**

Catalog Number: 8910 Enrollment: Limited to 12.

Daniel L. Schacter

Half course (fall term). M., 1–3.

Examines fallibility of memory from both cognitive and neuropsychological perspectives. Seven basic "sins" of memory: transience, absent-mindedness, blocking, misattribution, suggestibility, bias, and persistence. The first three reflect different types of forgetting. The next three involve distortion or inaccuracy. Persistence, the last, refers to pathological remembrances. Can "sins" be conceptualized as by-products of adaptive features of memory, rather than as flaws in the system or blunders made by Mother Nature during evolution?

Note: Open to Freshmen only.

***Freshman Seminar 23w. Science and the Sea - (New Course)**

Catalog Number: 88171 Enrollment: Limited to 15. There are no prerequisites for this seminar.

Alistair William Sponsel

Half course (fall term). M., 4–6.

Examines how science has reshaped our view of the ocean over the past two hundred years.



Formerly considered a featureless and threatening void, the deep sea is now understood as a dynamic place to be studied and even protected. How did scientists create knowledge of the ocean, and what was distinctive about doing science "at sea," whether from the deck of an explorer's ship or the inside of a diving bell?

Note: Open to Freshmen only.

***Freshman Seminar 23x. Energy and the Environment: Paths to Sustainability - (New Course)**

Catalog Number: 48465 Enrollment: Limited to 15.

Christopher Frederick Jones

Half course (fall term). Tu., 3–5:30.

The interrelationships between energy and environment are defining issues of our time. In this class, we will examine how the environment has shaped human energy choices and how these choices have shaped the environment. We will study the broad sweep of human energy use from hunter-gatherer societies to the present day and use this history to analyze contemporary issues such as climate change, peak oil, and the future of renewable energy systems.

Note: Open to Freshmen only.

***Freshman Seminar 24e. The Physics and Applied Physics Freshman Research Laboratory**

Catalog Number: 3573 Enrollment: Limited to 12.

Jene A. Golovchenko

Half course (fall term). M., W., 3–5.

Exposes students considering careers in science or engineering to environment of a modern research laboratory. Research teams construct, perform, analyze, and report on cutting-edge experiments in physical, engineering, and biological sciences. Projects provide insight into the mathematical, mechanical, electronic, chemical, computational, and organizational tools and skills that characterize modern experimental science. Past projects focused on atomic, nuclear, and solid state physics, materials science, dynamical systems, and biophysical science. Projects highlight both team and individual effort.

Note: Open to Freshmen only.

***Freshman Seminar 24i. Mathematical Problem Solving**

Catalog Number: 3711 Enrollment: Limited to 15.

Noam D. Elkies

Half course (fall term). M., 2–5.

Explores mathematical problem solving (and problem posing) in contexts ranging from classroom exercises to competitions to research mathematics, develops strategies and techniques for solving such problems. Participants will solve selected problems in various areas of mathematics and at a range of difficulty levels, and will present, compare and reflect on their and other participants' solutions

Note: Open to Freshmen only.

Prerequisite: Intended for students with a strong interest in mathematics, particularly those who do not already have extensive training in mathematical problem solving.

***Freshman Seminar 24n. Child Health in America**

Catalog Number: 6367 Enrollment: Limited to 15.



Judith Palfrey (Medical School)

Half course (fall term). M., 4–6.

Reviews history of children's health care in the United States; explores the impact of geography, environment, nutrition, clean water, as well as scientific discoveries of the late 19th and the early 20th centuries and the emergence of high technology care in middle and late 20th century. Does America provide children the best possible health care available? Compares United States epidemiology with that of other developed and developing nations. Explores how child health delivery is financed.

Note: Open to Freshmen only.

***Freshman Seminar 25g. The Impact of Infectious Diseases on History and Society**

Catalog Number: 8075 Enrollment: Limited to 15.

Donald A. Goldman

Half course (fall term). Th., 7–9 p.m.

Mankind's journey- farming, urbanization, exploration, trade, globalization -has been marked by devastating encounters with infectious diseases. Infections have affected wars, political dynasties, global balance of power, social structure, public health policy, economics, and the arts. This course explores these themes by studying infections such as plague, syphilis, smallpox, malaria, sleeping sickness, tuberculosis, cholera, yellow fever, polio, and influenza. It investigates how the epidemiology of these diseases, and society's response, inform contemporary policy and future threats.

Note: Open to Freshmen only.

***Freshman Seminar 25i. On the Witness Stand: Scientific Evidence in the American Courts**

Catalog Number: 81814 Enrollment: Limited to 15.

Sean Tath O'Donnell

Half course (fall term). M., 2–4.

Scientific evidence serves as a powerful witness in the courts. This seminar focuses on social, historical and theoretical problems in the interaction of law and science. The course coverage includes scientific evidence such as x-rays, fingerprinting, ballistics, lie detectors and DNA. Particularly, the seminar investigates the legal strategies used to demarcate pseudo-science from legitimate science, to establish expertise and legitimize both scientific and legal authority. In turn, the seminar considers recent proposals for reform.

Note: Open to Freshmen only.

***Freshman Seminar 25k. You Are What You Eat**

Catalog Number: 3913 Enrollment: Limited to 15.

Karin B. Michels

Half course (fall term). M., 4–6.

What does food do to our bodies? What does a healthy diet entail? What is known about the role of nutrition in preventing or curing disease? Explores and critically evaluates diet recommendations, current knowledge about the role of diet in maintaining health, and use of nutrition to treat disease. Discusses how studies are conducted to understand the impact of nutrition. Explores different diets and the obesity epidemic, its causes and its implications for the



next decades.

Note: Open to Freshmen only.

***Freshman Seminar 25n. Understanding Psychological Development, Disorder and Treatment: Learning through Literature and Research**

Catalog Number: 9589 Enrollment: Limited to 12.

Nancy Rappaport (Medical School)

Half course (fall term). Th., 3–5.

Deepens understanding of human development and how individuals cope with serious emotional or social difficulties (neglect, bipolar disorder, autism, depression). We will use multiple perspectives: medical texts that provide practical knowledge, narrative readings to understand how patients experience the meaning of illness, speaking with patients about their experiences, and portrayals of development-related mental illness in the press. Examines the fundamental need for tenderness and making meaning, the resourcefulness required for resiliency and the context of vulnerability.

Note: Open to Freshmen only.

***Freshman Seminar 25p. Neurotoxicology: Biological Effects of Environmental Poisons**

Catalog Number: 1838 Enrollment: Limited to 15.

S. Allen Counter (Medical School)

Half course (fall term). W., 2–4.

Explores wide range of environmental neurotoxic substances and effects on human and animal populations. Attention to pediatric exposure to neurotoxic agents and associated neurodevelopmental disabilities, as well as neurobehavioral and immunological changes. Examines impact of lead and mercury poisoning, PCBs. Investigates neurophysiology and neurochemistry of a number of other neurotoxins, including arsenic, tetrodotoxin, saxitoxin, botulinum, curare, cocaine, and "nerve gas." What dangers do these toxins pose? What can or should be done to prevent exposure?

Note: Open to Freshmen only.

***Freshman Seminar 25t. AIDS in Africa**

Catalog Number: 0024 Enrollment: Limited to 14.

Myron Essex (Public Health) and Tun-Hou Lee (Public Health)

Half course (spring term). Tu., 3–5.

HIV/AIDS has infected or killed more than sixty million people, and no vaccine is expected within five to ten years. About two-thirds of current infections are in ten percent of the world's population in sub-Saharan Africa, where few patients receive life-saving treatment. Explores dimensions of AIDS in Africa including the evolution and epidemiology of HIV, the pathobiology of AIDS, prevention of infection, and treatment of disease. Encourages multidisciplinary approaches, using country-specific illustrations of successful interventions.

Note: Open to Freshmen only.

***Freshman Seminar 25u. The Atomic Nucleus on the World Stage**

Catalog Number: 0027 Enrollment: Limited to 12.

Roy J. Glauber

Half course (fall term). Tu., 2–4, and occasionally on F., 1–3.



In 1939 realization that atomic nuclei can undergo fission arrived as a surprise. Traces some of the history leading to understanding of the properties of nuclei and their constituents. Studies wartime project that developed both nuclear power sources and weapons; readings supplemented by instructor's own recollections of this project. Investigates formidable problems posed by control of nuclear weapons, development of nuclear reactors, and hope that thermonuclear reactions may provide an abundant source of clean energy.

Note: Open to Freshmen only.

***Freshman Seminar 25w. Responsibility, the Brain, and Behavior**

Catalog Number: 0049 Enrollment: Limited to 12.

Ronald Schouten (Medical School)

Half course (fall term). Tu., 7–9 p.m.

Explores philosophical and legal bases of the concept of individual responsibility as applied in the criminal justice system. Examines how forensic mental health professionals assess an individual's mental state at time of an alleged criminal act, the legal standards applied, and the social and political forces that help shape the legal decision. Considers the insanity defense; examines modern concepts of the biological basis of behavioral disorders and their relationship to existing standards of criminal responsibility.

Note: Open to Freshmen only.

***Freshman Seminar 25z. Stress and Disease (Biobehavioral Aspects of Health and Disease)**

Catalog Number: 1691 Enrollment: Limited to 15.

Donald B. Giddon (Dental School)

Half course (fall term). W., 2–4.

This seminar on biobehavioral bases of health and disease focuses on the interaction of injurious or infectious agents and the physical and social environment in the development and maintenance of stress-related disorders. What factors are stressful for given individuals? What are the pathophysiological and/or behavioral pathways to disease? Why is a particular body organ system the target of stress? What psychological, social, and economic factors influence cognitive, affective/physiological, and behavioral responses to disease?

Note: Open to Freshmen only. Most class meetings will be at the Medical School.

***Freshman Seminar 26j. The Universe's Hidden Dimensions**

Catalog Number: 7529 Enrollment: Limited to 15.

Lisa Randall

Half course (spring term). W., 2–4.

Based loosely on book, *Warped Passages*, considers revolutionary developments in Physics in early 20th century: quantum mechanics and general relativity; investigates key concepts which separated these developments from the physical theories which previously existed. Topics: particle physics, supersymmetry, string theory, and theories of extra dimensions of space. We will consider the motivations underlying these theories, their current status, and how we might hope to test some of the underlying ideas in the near future.

Note: Open to Freshmen only.

***Freshman Seminar 26s. Mathematical Structures and Gödel's Completeness Theorem**

Catalog Number: 0012 Enrollment: Limited to 12. High school algebra and a strong interest in



fundamental mathematical problems.

Gerald E. Sacks

Half course (fall term). M., 4–6.

Mathematics is about structures. Some examples of structures are: the integers, the real numbers, and Euclidian plane geometry. Model theory, a branch of mathematical logic, provides a useful definition of structure. Gödel's completeness theorem shows how logically consistent definitions imply the existence of arbitrary mathematical structures. Model theory is applicable to problems that arise in algebra. An example is: the elementary theory of the real numbers is decidable.

Note: Open to Freshmen only.

Prerequisite: High school algebra and a strong interest in fundamental mathematical problems.

***Freshman Seminar 26u. What is Mental Illness?**

Catalog Number: 9123 Enrollment: Limited to 15.

Michael William Kahn (Medical School)

Half course (fall term). M., 2:30–5.

Introduces students to the nature of mental illness based on taped interviews of people suffering from a variety of psychiatric conditions. Investigates what illness and treatment are like from patient's perspective. Interviews supplemented by readings which include a variety of patient narratives. Provides background on categories of mental illness, the varieties of treatment available, and the nature of the illness experience itself.

Note: Open to Freshmen only.

***Freshman Seminar 26v. Blood: From Gory to Glory**

Catalog Number: 9017 Enrollment: Limited to 12.

David T. Scadden

Half course (fall term). W., 1:30–3:30.

Humans have long understood that the blood flowing in their veins was imperative to their health and well-being. This course will examine the history, attitudes and beliefs surrounding blood.

We will study human beliefs about blood and its uses in cultural beliefs and ceremonies. We will examine the science associated with blood: the production and the function of blood in the body, ideas of blood regarding medicine, healing, blood-related illnesses, biotechnology, nanotechnology and stem cell research.

Note: Open to Freshmen only.

***Freshman Seminar 26w. The Biology and Science of Cancer and Its Treatments: From Empiric to Scientific to Humanistic**

Catalog Number: 63338 Enrollment: Limited to 15.

David Stanley Rosenthal (Medical School) and George Daniel Demetri (Medical School)

Half course (spring term). Tu., 4–6.

"Cancer" represents hundreds of different diseases with a wide variety of causative mechanisms. We will study the biology of cancer and what makes a normal cell become a cancer one, delving into acquired and inherited genetic abnormalities and effects of environmental factors, such as nutrition, radiation, and tobacco. Current approaches to cancer will be discussed from prevention and early detection to treatment of survivorship.

Note: Open to Freshmen only.



***Freshman Seminar 26z. What is Life?**

Catalog Number: 20722 Enrollment: Limited to 15.

Guido Guidotti

Half course (spring term). W., 2–4.

This seminar considers the conditions of a cell necessary to support life. The proposal is to find a definition for a living system using information and principles of biology, chemistry and physics to characterize some central properties of living cells, like energy and material uptake and use, cellular crowding, diffusion and molecular interactions, homeostasis and growth.

Note: Open to Freshmen only.

***Freshman Seminar 30o. What is College and What is It For?**

Catalog Number: 1897 Enrollment: Limited to 15.

Paul J. Barreira (Medical School)

Half course (spring term). W., 3–5.

Seminar asks students to think and write critically about American higher education--its history, purpose and ongoing challenges. Considers "the uses of the university" from a variety of perspectives: historical, sociological, economic, and developmental. Addresses questions: What constitutes a liberal arts education? What are its goals? How should students be assessed? What role do extracurricular activities play in a college education? Does bachelor's degree certify a vocational education, a cultural one, or a moral one?

Note: Open to Freshmen only.

***Freshman Seminar 31g. The Pleasures of Japanese Poetry: Reading, Writing, and Translation**

Catalog Number: 1645 Enrollment: Limited to 12.

Edwin A. Cranston

Half course (fall term). W., 2–5.

Reads classical waka, its modern descendant the tanka, and examples of linked verse (renga) and modern poems in free and prose-poem forms. (And haiku too!) Focuses on themes such as desire, renunciation, time, memory, war, death, sorrow, and receptivity. Students keep a diary of their encounters with the new poetry, practice the art of sequencing, and make their own translations based on literal renderings and explanations of Japanese originals.

Note: Open to Freshmen only.

***Freshman Seminar 31j. Skepticism and Knowledge**

Catalog Number: 9760 Enrollment: Limited to 15.

Catherine Z. Elgin (School of Education)

Half course (fall term). Tu., 3–5.

What can we know; how can we know it? Can I know that I am not a brain in a vat being manipulated into thinking that I have a body? Can I know that Lincoln was assassinated, that $E=MC^2$, that Hamlet is better than Harry Potter, that the sun will rise tomorrow? This seminar will study skeptical arguments and responses to skepticism to explore the nature and scope of knowledge.

Note: Open to Freshmen only.



***Freshman Seminar 31m. In Pursuit of the Ordinary: Genre Painting in Boston-Area Museums**

Catalog Number: 8635 Enrollment: Limited to 12.

Joseph Koerner

Half course (spring term). W., 1–3.

Examines key examples of "genre" pictures, that is, depictions of everyday life, in ten different Boston-area collections. Investigates the changing nature and value of the genre picture from its emergence as a specialty product in the Renaissance through its rejection in Modernist art practice. Considers what the current study of the visual arts--scholarship, criticism, collection, preservation and display--imagines the "everyday" to be.

Note: Will meet at museum sites. Open to Freshmen only.

***Freshman Seminar 31n. Beauty and Christianity**

Catalog Number: 4682 Enrollment: Limited to 12.

Robert J. Kiely

Half course (fall term). W., 2–4.

Jesus has inspired great works of art, literature, and music, but Christians have not always agreed on the function of beauty. This seminar will consider Christian aesthetics, art (Italian Renaissance), and music (Bach, Messiaen, and spirituals), but the focus will be on literary works of St. Francis, Dante, Herbert, Donne, Hopkins, Hawthorne, Melville, C.S. Lewis, and O'Connor. The abiding question will be: In what ways does aesthetic form-- beauty-- enhance, qualify, complicate, or obscure the gospel?

Note: Open to Freshmen only.

***Freshman Seminar 31s. Heist: The Culture and Politics of Art Theft, Grave Robbery, and Looting**

Catalog Number: 2258 Enrollment: Limited to 15.

Nenita Ponce de Leon Elphick

Half course (fall term). W., 2–4.

Considers art theft from several angles, looking first at the popular appeal and glamorization of art heists in fiction and film and then focusing on different types of art theft (heists, grave robbery, and looting) to critically examine and debate the ethical issues and legalities of provenance and provenience that concern public and private collectors, museums, institutions, and the international art market. Topics include the Elgin Marbles, Nazi looting, and the national treasures of Iraq.

Note: There will be additional meeting times for film screenings. Open to Freshmen only.

***Freshman Seminar 31w. A Question of Taste**

Catalog Number: 8061 Enrollment: Limited to 15.

James S. Murphy

Half course (fall term). M., 3–5.

Explore concepts of taste developed within science, sociology, and philosophy over the past three centuries alongside poetry and fiction from the same timeframe. Considers the sources, uses, and ways aesthetic judgments are entangled in debates over nature/nurture, class, democracy, education, consumption, rebellion, and ethics. Authors to be read include Lehrer,



Pope, Hume, Austen, Bourdieu, James, Calinescu, and Nabokov.

Note: Open to Freshmen only.

***Freshman Seminar 32s. The Twilight of the Gods: Ragnarök and the Apocalyptic Tradition - (New Course)**

Catalog Number: 77478 Enrollment: Limited to 12.

Stephen A. Mitchell

Half course (fall term). Tu., 1–3.

Norse mythology culminates apocalyptically, with giants, fire-demons and various monsters destroying Odin, Thor and the other gods, a battle from which a peaceful new world emerges. This seminar situates this Viking Age eschatological vision against both specific historical data (e.g., the 6th-c. climate crisis) and the comparanda of world mythologies (e.g., the Armageddon of the Abrahamic religions) and investigates how it is employed in such modern contexts as opera, Viking metal, art, literature and politics.

Note: Open to Freshmen only.

***Freshman Seminar 32v. The Art of Storytelling**

Catalog Number: 7011 Enrollment: Limited to 15.

Deborah D. Foster

Half course (spring term). Tu., 2–4.

People everywhere tell stories to express both the verities and contradictions found in experiences of everyday life. Based on storytelling traditions, a narrator shapes the story to reflect his or her own intentions, making it personally expressive as well as publicly meaningful to a particular audience. This seminar examines the nature of storytelling, its enduring appeal, and its ability to adapt to multiple technologies (print, film, internet). Participants engage in the storytelling process itself.

Note: Open to Freshmen only. This course includes student art-making as part of the Elson Family Arts Initiative.

***Freshman Seminar 32z. How to Be a Courtier in the Age of Louis 14 - (New Course)**

Catalog Number: 57039 Enrollment: Limited to 15.

Sylvaine Guyot

Half course (spring term). W., 2–4.

By considering the image of the courtier at the Sun King's court, this course has three related purposes. Firstly, students read a range of various texts (mostly drama, memoirs, letters, novels) within their political and cultural context (theorists of manner, paintings, royal control over arts). Secondly, they view videos of performances and historical movies in order to question our "modern" vision of the "classical" century. Finally, they experience theater as form of physical and vocal expression through two performance-oriented presentations.

Note: Open to Freshmen only. This course includes student art-making as part of the Elson Family Arts Initiative.

***Freshman Seminar 33o. Animation--Getting Your Hands On Time**

Catalog Number: 37616 Enrollment: Limited to 15.

Ruth S. Lingford

Half course (fall term). Tu., 1–4.



Experimentation with a variety of animation techniques leads to new perspectives on time in this practice-based seminar. Practical assignments using drawing, pixillation, strata-cut and time-lapse will build into students making a short animated film, individually or in groups.

Note: Open to Freshmen only. This course includes student art-making as part of the Elson Family Arts Initiative.

***Freshman Seminar 33s. Narrative Before the Novel - (New Course)**

Catalog Number: 87253 Enrollment: Limited to 15.

Nicholas Watson

Half course (spring term). W., 4–6.

Before the novel was the romance, a genre responsible for some of the West's most powerful imaginings, from the story of King Arthur to chivalry and courtly love. This course considers the place of romance in fashioning ideas of selfhood, sexuality, society, and secular ethics in medieval Europe ; in offering pleasure and release to pre-modern readers; and in shaping the crucial modern notion of "fiction," the powerful written description of non-existent events and people.

Note: Open to Freshmen only,

***Freshman Seminar 33v. Buddhist Visualization in a Chinese Cave: Body, Time, and Cosmos**

Catalog Number: 2530 Enrollment: Limited to 12.

Eugene Wang

Half course (fall term). Th., 3–5.

The seminar is an introduction to Buddhism and art history by focusing on a fifth-century Chinese cave. The images therein show episodes from the Buddha's past and present lives (his bodily sacrifices and demon-subjugation, etc.), which involve key concepts of Buddhism, including body, time, and cosmos. Poor visibility in the cave calls for inquiries into modes of cognition and religious functions. The interdisciplinary study explores issues of art, religion, anthropology, and cognitive psychology.

Note: Open to Freshmen only.

***Freshman Seminar 33w. Moving Pictures: Pictorial Narrative in Japan**

Catalog Number: 82937 Enrollment: Limited to 15.

Melissa M. McCormick

Half course (spring term). Th., 1–3.

Dynamic forms of visual storytelling abound in Japan, from twelfth-century narrative scrolls, to twentieth-century manga, to contemporary anime. This seminar examines the fundamentals of Japanese pictorial narrative by analyzing formal characteristics of both images (composition, framing, line, color), and narrative texts (plot, temporality, character) and how these elements interact to generate meaning. Students will create their own illustrated scrolls, manga, and storyboards to understand the potential and limitations of visual narrative.

Note: Open to Freshmen only. This course includes student art-making as part of the Elson Family Arts Initiative. No Japanese language required.

***Freshman Seminar 33x. Complexity in Works of Art: Ulysses and Hamlet**

Catalog Number: 6673 Enrollment: Limited to 12.



Philip J. Fisher

Half course (fall term). M., 2–4.

Do inherited forms found in literature permit only certain variations within experience to reach lucidity? Investigates literature's limits in giving account of mind, everyday experience, thought, memory, full character, and situation in time. Studies Shakespeare's Hamlet and Joyce's Ulysses, a modern work of unusual complexity and resistance to both interpretation and to simple comfortable reading. Reading these two works suggests potential meanings for terms like complexity, resistance, openness of meaning, and experimentation within form.

Note: Open to Freshmen only.

***Freshman Seminar 34i. Girl Talk: Reflections on Gender and Youth in America**

Catalog Number: 4743 Enrollment: Limited to 15.

Laura K. Johnson

Half course (fall term). Th., 2–4.

This seminar explores what women have to say about growing up female in contemporary America. Sources analyzed include memoirs, documentary films, photographs, and diaries. These sources both depict individual experiences and reflect more broadly on the role gender plays in American society. Topics considered include the various ways gender impacts the experience of athletics, academic achievement, illness, self-esteem, body image, and family dynamics.

Note: Open to Freshmen only.

***Freshman Seminar 34m. Leonard Bernstein and His World**

Catalog Number: 0175 Enrollment: Limited to 15.

Carol J. Oja

Half course (fall term). Tu., 1–3.

Conductor, composer, teacher, television personality, Bernstein embraced new technologies with gusto, bringing classical music to a wider audience than ever before. As composer of a series of innovative Broadway musicals, including West Side Story (1957), he also challenged the status quo. Explores Bernstein's career in the round, looking at concurrent cultural patterns. Special focus on his relationship to mass media. Course includes an opportunity to dance to the choreography of Jerome Robbins.

Note: Open to Freshmen only. This course includes student art-making as part of the Elson Family Arts Initiative.

Prerequisite: Music literacy is desirable but not required. No previous dancing experience is required.

***Freshman Seminar 34u. The Worlds of Joseph Conrad - (New Course)**

Catalog Number: 72146 Enrollment: Limited to 15.

Maya Jasanoff

Half course (spring term). M., 2–4.

Anarchists, asylum-seekers, gun-runners, sea captains and corporate agents gone rogue: all these figures and more populated the world of Joseph Conrad, the greatest novelist to explore the workings of modern imperialism. This course uses three major works—The Secret Agent, Lord Jim, and Heart of Darkness—as windows onto empire and globalization c. 1900. Topics under consideration include informal imperialism, "going native," migration, seafaring, and



technological change. Readings and assignments facilitate an interdisciplinary approach to history.

Note: Open to Freshmen only.

***Freshman Seminar 34y. Inside Beethoven's Quartets - (New Course)**

Catalog Number: 73347 Enrollment: Limited to 15.

Lewis Lockwood

Half course (spring term). W., 1–3.

A wide-ranging introduction to the Beethoven String Quartets, focused on selected works from all periods of his creative life. A primary focus will be on the composer's changing approach to what contemporaries called "this noble genre" and on the ways in which performers seek to realize the expressive and structural dimensions of the music. Visits by the Chiara Quartet will be arranged, and students who can perform the quartets are encouraged to do so.

Note: Open to Freshmen only.

***Freshman Seminar 34z. Pressing the Page: Making Art with Letters, Paper & Ink**

Catalog Number: 97712 Enrollment: Limited to 12.

Zachary Sifuentes

Half course (spring term). M., W., 3–5.

This seminar makes art out of language, letter, and type. We print poetry with a vintage letterpress, turn poems into drawings, and transform books into sculptures. To make this art, we rely on a variety of tools: metal type, disappearing inks, and even drill bits will help us physically expose how poetry uses language. In the process, we learn to work with a variety of limits to see constraint as fundamental to creativity.

Note: Open to Freshmen only. This course includes student art-making as part of the Elson Family Arts Initiative.

***Freshman Seminar 35g. Painting With Words - (New Course)**

Catalog Number: 95368 Enrollment: Limited to 15.

Phoebe Francesca Putnam

Half course (fall term). Tu., 3–6.

This seminar is for writers who would like to explore painting, painters who would like to explore writing, and for anyone who wishes to enrich the quality of his sight and the descriptive resonance of her language through a combination of guided research and creative practice. As we consider what is "painterly," our discussions will center on literary materials from Melville to Elizabeth Bishop, and visual materials from John Singer Sargent to Ezra Jack Keats.

Note: Open to Freshmen only. This course includes student art-making as part of the Elson Family Arts Initiative.

***Freshman Seminar 35l. War, Violence and Memory in 20th Century Europe**

Catalog Number: 3854 Enrollment: Limited to 15.

Katrina Maria Hagen

Half course (fall term). W., 3–5.

This seminar explores the relationship of history and memory in the context of war and genocide in 20th century Europe. It charts the shifting "politics of memory" from the First and Second World Wars, to wars of decolonization in the 1950s and 60s, to post-Cold War ethnic cleansing



in the former Yugoslavia. Assignments include short response papers, and a research project with an oral presentation.

Note: Open to Freshmen only.

***Freshman Seminar 35n. The Art and Craft of Acting - (New Course)**

Catalog Number: 21542 Enrollment: Limited to 14.

Remo Francisco Airaldi

Half course (spring term). M., 4–6.

Provides an introduction to acting by combining elements of a discussion seminar with exercises, improvisations, performance activities including the analysis, rehearsal, presentation of monologues and scenes. Uses improvisation to develop characters, improve group/ensemble dynamics and to minimize habitual behaviors. Explores a range of historical and contemporary acting techniques including those of Stanislavsky, Sanford Meisner, Stella Adler, Uta Hagen, Jerzy Grotowski, Peter Brook, others. Students also attend and critique performances at the Loeb Drama Center.

Note: Open to Freshmen only. This course includes student art-making as part of the Elson Family Arts Initiative.

***Freshman Seminar 35o. Archives of Childhood: Growing Up with the United States - (New Course)**

Catalog Number: 43133 Enrollment: Limited to 15.

Sarah Anne Carter

Half course (spring term). W., 2–5.

The United States is a young nation. As both historical actors and evocative symbols, children and ideas about childhood are and have been a central part of American history and cultural life. This interdisciplinary seminar draws upon many different archives of childhood from diaries and photographs to toys and memorials to consider the ways diverse children's experiences and representations have shaped American life from the eighteenth century through the 1970s.

Note: Open to Freshmen only.

***Freshman Seminar 35p. Stories of Addiction - (New Course)**

Catalog Number: 93249 Enrollment: Limited to 15.

Eoin Francis Cannon

Half course (fall term). W., 2–4.

This course examines the role of storytelling in the study of addiction. Much of what is known about addiction is expressed through the medium of the life-story, whether told by addicts, researchers, or imaginative writers. At the same time, stories of addiction and recovery have helped to define modern society's deepest beliefs about the nature of the self and the qualities of the well-lived life. Readings will include memoirs, research publications, fiction, and film.

Note: Open to Freshmen only.

***Freshman Seminar 35s. Movement and Meaning: Dance, Culture, and Identity in the 20th Century**

Catalog Number: 46522 Enrollment: Limited to 15.

Jessica Berson

Half course (fall term). M., 1–3.



This course examines the history of Western theatrical and social dance through the course of the twentieth century, including the development of modern dance, contemporary ballet, popular dance, and dance in film and television. Students will be invited to think critically about dance and also to dance themselves (no prior dance experience required). Artists under consideration include Martha Graham, George Balanchine, Alvin Ailey, Judson Church Dance Theater, and Jawole Willa Jo Zollar, among many others.

Note: Open to Freshmen only. This course includes student art-making as part of the Elson Family Arts Initiative.

***Freshman Seminar 35u. Nazism, Stalinism, and the Devil: Reading History through Doctor Faustus and The Master and Margarita - (New Course)**

Catalog Number: 20419 Enrollment: Limited to 15.

John D. Ondrovicik

Half course (fall term). W., 1–4.

In *Doctor Faustus* and *The Master and Margarita*, Thomas Mann and Mikhail Bulgakov use the legend of Faust and the figure of the devil to investigate the social, political, and cultural origins of Nazism and Stalinism. This course takes up their explorations by revisiting the founding texts of the Faust legend and pairing the novels of Mann and Bulgakov with the best historical scholarship on the two regimes.

Note: Open to Freshmen only.

***Freshman Seminar 35x. Truth or Dare: What's at Stake in Contemporary Poetry - (New Course)**

Catalog Number: 14218 Enrollment: Limited to 15.

Teresa Villa-Ignacio

Half course (fall term). Tu., 3–5.

How and why is poetry relevant today? This seminar provides a gateway to the diversity of contemporary poetic production and an opportunity for in-depth study of today's foremost poets. Focusing on issues of great concern to today's writers and readers of poetry - linguistic innovation, historical witnessing, political activism, new media poetry, and translation - the seminar explores poetry in experimental collections, literary journals, slam and performance poetry, audio recordings, and the Internet.

Note: Open to Freshmen only.

***Freshman Seminar 35y. Paris Love Stories - (New Course)**

Catalog Number: 80847 Enrollment: Limited to 15.

Stephanie Lin Carlson

Half course (fall term). Th., 1–3.

Through study of literary texts and films, this course explores Paris as the inspiration and setting for the unfurling of one of life's most complex emotions and experiences: love. Evoking the historical and cultural context surrounding these narratives, the course will explore why and how Paris came to be associated with affairs of the heart. There are no prerequisites for the course. All readings are in English.

Note: Open to Freshmen only. All readings are in English.



***Freshman Seminar 36o. The Trials of Socrates - (New Course)**

Catalog Number: 49051 Enrollment: Limited to 15.

Christopher Stephen Meckstroth

Half course (fall term). W., 4–6.

Socrates initiated Western philosophy, despite claiming to know nothing at all. In this course, we read Platonic dialogues and more recent interpretations of Socrates' story in philosophy (Nietzsche, Arendt, Foucault), politics (I.F. Stone), theater (Voltaire and Brecht), music (Satie), and film (Rossellini). And we use tools of classical rhetoric to craft public speeches like Socrates'. We ask: what is Socratic method? Socratic irony? Was Socrates a hero, a genius, a scam artist, or a fool?

Note: Open to Freshmen only. This course includes student art-making as part of the Elson Family Arts Initiative. Students will also work in pairs to prepare their own oral accusation or defense of Socrates to be delivered in class during a mock trial.

***Freshman Seminar 36p. To Far Places: Literature of Journey and Quest - (New Course)**

Catalog Number: 95495 Enrollment: Limited to 15.

William Albert Graham

Half course (spring term). W., 3–5.

Considers largely fictional, mythic, or epic literature involving travel, quest, pilgrimage, sojourning, and enduring themes and questions this literature raises: parting/return, separation/reintegration, homelessness/homecoming, loneliness/companionship, orientation/disorientation, internal/external, place/space, apprenticeship, trial, growth, aesthetic vision, courage, and death. Includes works such as *Gilgamesh*, Tolkien's *Hobbit*, Homer's *Odyssey*, Basho's *Narrow Road to Oku*, Endo's *Deep River*, Hesse's *Siddhartha*, Calvino's *Invisible Cities*, Hersey's *A Single Pebble*, Frazier's *Cold Mountain*, Johnson's *Middle Passage*, 'Attar's *Conference of the Birds*, McCarthy's *The Road*.

Note: Open to Freshmen only.

***Freshman Seminar 37i. Love, Medieval Style**

Catalog Number: 5514 Enrollment: Limited to 15.

Sally Livingston

Half course (fall term). Th., 3–5.

In this course we will examine the medieval obsession with love in all its diverse forms, reading (in translation) from the Latin, French, and English medieval literatures. Some of the broad themes we will examine are the interplay between the secular and sacred idea of love, medieval sexualities, the rise of lovesickness as a both a literary theme and medical malady, and the growing connection of love and marriage.

Note: Open to Freshmen only.

***Freshman Seminar 37j. Memory and Memoir - (New Course)**

Catalog Number: 20624 Enrollment: Limited to 15.

Laura Schlosberg

Half course (fall term). M., 2–4.

This seminar explores memoirs that highlight memories and occasionally "forgettings." Our approach considers twentieth-century and contemporary memoirs at the intersection of literature and history, exploring everyday life and the relations between self, memory, story, and history.



We also examine the fictive nature of memoirs, relations between senses and memories, and whether contemporary media are forms of memoirs. Authors include Vladimir Nabokov, Toni Morrison, Oliver Sacks, M.F.K. Fisher, Virginia Woolf, Ernest Hemingway, and Marjane Satrapi.

Note: Open to Freshmen only.

***Freshman Seminar 37n. What's in a Coin? The World of Numismatics**

Catalog Number: 57879 Enrollment: Limited to 15.

Carmen Arnold-Biucchi

Half course (fall term). Th., 1–3.

This seminar offers a hands-on introduction to the world of ancient coins using the collections of the Harvard Art Museums. Ancient coins are important objects of material culture as well as original works of art in miniature. They give clues about the history, geography and religion of the ancient world: by looking at them in detail we can learn about Greek and Roman portraiture, political propaganda, and the myths and legends of that time.

Note: Open to Freshmen only.

***Freshman Seminar 37y. Muslim Voices in Contemporary World Literatures**

Catalog Number: 8901 Enrollment: Limited to 12.

Ali S. Asani

Half course (fall term). W., 1–3:30.

Investigates contemporary experiences of being Muslim in different societies as reflected in literature. Explores range of issues facing Muslim communities in various parts of the world through short stories, novels, and poems. Examines impact of colonialism, nationalism, and globalization; politicization of Islam; status of women and gender relations; attitudes towards the West and Western culture; interaction between religion, race, and ethnicity; search for an "authentic" modern Islamic identity. Readings of Muslim authors from five continents.

Note: Open to Freshmen only. This course includes student art-making as part of the Elson Family Arts Initiative. Students will create an artistic and literary portfolio responding to the weekly readings using different media.

***Freshman Seminar 38j. Medicine and Literature**

Catalog Number: 0116 Enrollment: Limited to 15.

Elaine Scarry

Half course (fall term). M., 1–3.

Based on literary and medical texts. Addresses: Can language express physical pain? Can the body-in its fragile or injured form-enter literature? Are all our senses (hearing, touch, taste, smell) as vividly present in language as vision is? How does the empathic representation of illness or pain in literature differ from the physician's professional attempt to cure or alleviate suffering or (when that is impossible) to solace the suffering patient?

Note: Open to Freshmen only.

***Freshman Seminar 38l. Modes of Reading**

Catalog Number: 4870 Enrollment: Limited to 15.

Joanna Nizynska

Half course (spring term). Tu., 2–4.



What are our modes of reading? How do we create meaning? What contextualizes our reading, and how do social, political, historical, and gender differences affect our interpretations? What differentiates "reading" speech from reading writing? What constitute "literature" and "authorship," and how have these notions been changing historically? What is "text" in the first place? This course introduces basic vocabulary of literary and cultural theories in order to enhance students' ability to interpret.

Note: Open to Freshmen only.

***Freshman Seminar 38m. Meeting the Byzantines**

Catalog Number: 0852 Enrollment: Limited to 10.

John Duffy

Half course (fall term). Th., 2–4.

Byzantium remains for many an alien place, in some respects an imaginary world from a very distant past. The seminar focuses on bringing participants closer to the people of Byzantium through representative groups and individuals, from emperors to monks, from scholars to soldiers. How did one become emperor or empress? Who controlled the content of religious dogma? Who helped pagan Greek literature to survive in a conservative Christian culture? Who took care of the recording of history?

Note: Open to Freshmen only.

***Freshman Seminar 38z. Romancing the Kitchen: Food Culture across the Romance Languages - (New Course)**

Catalog Number: 26825 Enrollment: Limited to 15.

Elvira G. DiFabio

Half course (spring term). W., 2:30–5.

This course offers a taste (sapore) of the knowledge (sapere) that is found in the language and culture the Romance languages, in particular, French, Italian, Spanish, infused by unique flavors of Portuguese and Catalan as well. Consumption of food and the consumption of texts, eating language and culture, the Romance kitchen as a liminal space between language and culture, body and spirit, the living and the deceased.

Note: Open to Freshmen only. This course includes student art-making as part of the Elson Family Arts Initiative. The class will engage in at least five hands-on sessions in the kitchen to read, create, and taste.

***Freshman Seminar 39g. The Book of Hours: Picturing Prayer in the Middle Ages**

Catalog Number: 4824 Enrollment: Limited to 12.

Jeffrey F. Hamburger

Half course (spring term). Tu., 1–3.

The proverbial "bestsellers" of the later Middle Ages, Book of Hours served both as prayer and picture books. Using originals in Harvard's Houghton Rare Book Library as well as facsimiles of famous examples, the seminar will consider the history and development of both the Book of Hours-the most common type of illustrated manuscript in the later Middle Ages-and, more generally, other forms of prayer books from the period (1100-1500).

Note: Open to Freshmen only. This course includes student art-making as part of the Elson Family Arts Initiative.



***Freshman Seminar 39l. Art in Multiple Dimensions**

Catalog Number: 8205 Enrollment: Limited to 12.

Helen Mirra

Half course (spring term). W., 1–4.

Examines the crooked paths artmaking practices have taken since artists began blurring lines between painting, sculpture, writing, and music (and video and cooking and sleeping), and the work of many artists who would find it difficult or misleading to ally themselves with a single medium. Texts will include artists' writings and selections from John Dewey's *Art as Experience*. Students asked to write short response papers to facilitate discussions, and to "make art", in a myriad of ways.

Note: Open to Freshmen only. This course includes student art-making as part of the Elson Family Arts Initiative.

***Freshman Seminar 40i. The Supreme Court in U.S. History**

Catalog Number: 7142 Enrollment: Limited to 15.

Richard H. Fallon (Harvard Law School)

Half course (spring term). Th., 1–3.

Often described as the world's most powerful court, the US Supreme Court has not always enjoyed high prestige or unquestioned authority. The Court's significance has waxed and occasionally waned, with the variations typically depending on surrounding currents in the nation's social and political history. Examines the history of the Court from the nation's founding to the present. Highlights relation between constitutional law and ordinary politics, and the ways in which they influence one another.

Note: Open to Freshmen only.

***Freshman Seminar 41p. American Presidential Campaigns and Elections 1960-2008**

Catalog Number: 2004 Enrollment: Limited to 15.

Maxine Isaacs

Half course (fall term). Th., 1–3.

What can we learn from modern presidential campaigns and elections about our own political era? In this Seminar, we examine changes in campaigns and elections since 1960; demographic shifts of the last fifty years; nature and structure of American public opinion; ways American news media transmit information and people learn about matters in the public sphere - and use all these perspectives to understand the remarkable 2008 presidential campaign and our own times, issues and society.

Note: Open to Freshmen only.

***Freshman Seminar 42k. Comparative Law and Religion**

Catalog Number: 9992 Enrollment: Limited to 15.

Ofrit Liviatan

Half course (fall term). W., 2–4.

Investigates the use of legal processes in addressing religion-based conflicts, a leading source of tension in modern societies. The seminar will explore theoretical approaches to accommodating religious diversity and examine existing models of religion-state relationships. Drawing on legal cases from the US, Turkey, India, Israel, Spain, Canada, and England, the seminar will also familiarize participants with contemporary debates involving religion: the wearing of Islamic



headscarf, religion and education, the funding of religious institutions, etc.

Note: Open to Freshmen only.

***Freshman Seminar 42n. Comparative National Security of Middle Eastern Countries**

Catalog Number: 5714 Enrollment: Limited to 15.

Charles David Freilich

Half course (spring term). Tu., 4–6.

The course surveys the national security threats and opportunities facing the primary countries of the Middle East, from their perspective. Issues discussed include the domestic sources of national security considerations, relations with regional and international players, military doctrine, foreign policy principles. The seminar is an interactive, "real world" exercise, in which students play the role of leaders in the countries of their choosing and write practical policy recommendations on current affairs.

Note: Open to Freshmen only.

***Freshman Seminar 42s. Jews Onscreen: An American Story**

Catalog Number: 4921 Enrollment: Limited to 15.

Rachel L. Greenblatt

Half course (fall term). M., 1–4.

Traces the representation and self-representation of Jews in American radio, television, and cinema, focusing on questions of integration, assimilation, and Jewish identity. Explores the evolution of media portrayals of Jews in the context of American history, with an eye to the unique situation in which onscreen images of Jewish characters were often created by Jewish writers, actors, producers and/or directors.

Note: Open to Freshmen only.

***Freshman Seminar 42u. The Laws of War and the War on Terrorism**

Catalog Number: 9694 Enrollment: Limited to 15.

Gregg Andrew Peeples

Half course (fall term). W., 3–5.

How do the "laws of war" regulate the conduct of the United States in the "Global War on Terrorism?" This seminar examines the historical development of two legal concepts: *jus ad bellum*, which determines the legitimacy of the use of armed force; and *jus in bello*, which defines the duties of soldiers and belligerent states. Drawing on this background, the seminar explores how these laws have influenced U.S. military and anti-terrorism operations since 9/11.

Note: Open to Freshmen only.

***Freshman Seminar 42v. Human Rights Between Rhetoric and Reality**

Catalog Number: 1757 Enrollment: Limited to 12.

Stephen P. Marks (Public Health)

Half course (fall term). Tu., 4–6.

Examines radically different perspectives on the question of whether human rights discourse is merely rhetorical or captures a significant dimension of reality for peoples in diverse cultures. Topics include compatibility of human rights with contending philosophical systems and religions, feminism, and critical theory; challenges to human rights from various scientific perspectives, including evolutionary biology, genetic engineering, and brain research; and the



relative significance of human rights in law and government, economics, and foreign policy.

Note: Open to Freshmen only.

***Freshman Seminar 42w. The Book: From Gutenberg to the Internet**

Catalog Number: 6004 Enrollment: Limited to 15.

Robert Darnton

Half course (spring term). W., 1–4.

Examines the impact of books on Western culture from the time of Gutenberg. Hands-on experience in studying the book as a physical object and theoretical reflection on the nature of printing as a means of communication. Students will consider the publishing history of great books such as Shakespeare's First Folio and will address the problem of books as elements in the electronic media.

Note: Open to Freshmen only. Additional time after the seminar meeting may be arranged for hands-on workshops.

***Freshman Seminar 43e. Mind-Body Problems - (New Course)**

Catalog Number: 49842 Enrollment: Limited to 15.

Alison Simmons

Half course (fall term). W., 2–4.

Am I a mind, a body, or both? Can mind affect body just by thinking? Can our mental life be reduced to brain activity? This seminar explores the nature of mind and its puzzling relation to the body through three different disciplines: philosophy, psychiatry, and literature. We will read both historical and contemporary works, including selections from Plato, Aristotle, Descartes, Nagel, Jackson, Freud, Kramer, Tolstoy, Lawrence, and Proust.

Note: Open to Freshmen only.

***Freshman Seminar 43j. The Economist's View of the World**

Catalog Number: 35829 Enrollment: Limited to 16.

N. Gregory Mankiw

Half course (fall term). Th., 2:30–5.

This seminar probes how economic thinkers from the right and left view human behavior and the proper role of government in society. Each week, seminar participants read and discuss a brief, nontechnical, policy-oriented book by a prominent economist. There will also be required writing assignments. Students must have some background in economics, such as an AP economics course in high school or simultaneous enrollment in Economics 10.

Note: Open to Freshmen only.

***Freshman Seminar 43k. American Bodies, American Beauty - (New Course)**

Catalog Number: 93454 Enrollment: Limited to 12.

Karen P. Flood

Half course (fall term). Th., 1–3.

This class examines body ideals over the past century by focusing on four body-shaping techniques in American culture: fitness and body building, weight reduction, surgical alterations, and surface adornments. Through these topics the course will explore changing ideals of femininity and masculinity, and evolving notions of the self. The course will pay close attention to the racial and sexual politics of these bodily ideals, and the ways in which people have either



affirmed or transgressed bodily norms.

Note: Open to Freshmen only.

***Freshman Seminar 43l. Happiness in Philosophy and Psychoanalysis**

Catalog Number: 15185 Enrollment: Limited to 15.

Lucas S. Fain

Half course (fall term). M., 3–5.

Everyone wants to be happy. But do we even know what we want when we say that we desire happiness? Few questions generate so much existential anxiety and overwhelming philosophical interest. For without knowledge of happiness, how can we know what it means to live a good life? This course examines these questions as they have been considered variously in philosophy and psychoanalysis. Readings include works by Aristotle, Descartes, Rousseau, Kant, Nietzsche, Freud, and Zizek.

Note: Open to Freshmen only.

***Freshman Seminar 43m. Psychology of Religion**

Catalog Number: 83191 Enrollment: Limited to 15.

Jon Wesley Boyd

Half course (fall term). M., 3:30–5:30.

This course addresses some of the fundamental issues of the nature of the self, issues which appear at the intersection of religion and psychology. The course will focus on issues of narrative as well as "world construction," the ways in which both individuals and cultures create frameworks of meaning. The readings explore philosophical, psychological, and literary perspectives on religious experience and include works by William James, Freud, Jung, Dostoevsky, Flannery O'Connor, Malcolm X and others.

Note: Open to Freshmen only.

***Freshman Seminar 43o. Shakespeare and Political Philosophy**

Catalog Number: 82605 Enrollment: Limited to 15.

Alexander T. Schulman

Half course (fall term). W., 2–5.

We read a series of Shakespeare plays alongside classic texts of Western political philosophy in order to explore how Shakespeare illuminates the deepest questions of political philosophy, and vice versa. Though there are many legitimate ways to read classical literature and classical political theory our basic framing questions are existential. That is to say: What is the true condition of, and what are the legitimate hopes for, finite, self-conscious, collective human existence in this world?

Note: Open to Freshmen only.

***Freshman Seminar 43q. Historian and the Genes-From Mendel to Human Clones**

Catalog Number: 6220 Enrollment: Limited to 15.

Everett I. Mendelsohn

Half course (fall term). M., 2–4.

Examines several sides of the history of genetics -- scientific, cultural, social, and political -- through the reading of original texts, through the study of their reception, rejection, or modification, through the analysis of their incorporation into fiction as well as social theory and



practice, and through the exploration of their interaction with other sciences and with agricultural and medical practices.

Note: Open to Freshmen only. There may be one or two additional evening sessions to view films.

***Freshman Seminar 43y. Where Does Your Morality Come From?**

Catalog Number: 9380 Enrollment: Limited to 15.

Alan Dershowitz (Law School)

Half course (fall term). Tu., 1–3.

What are the sources of morality, law and rights? This seminar explores these sources through a variety of readings: *The Brothers Karamazov*, excerpts from the Old and New Testaments and the Koran as well as from my book, *The Genesis of Justice*, psychology (Steven Pinker, Marc Hauser), philosophy (Robert Nozick, Socrates, Cicero), jurisprudence (my book, *Rights From Wrongs*, Ronald Dworkin) and positive law (the Declaration of Independence, the Constitution, and foundational documents from other countries).

Note: Open to Freshmen only.

***Freshman Seminar 43z. Cyberspace in Court: Law of the Internet**

Catalog Number: 2880 Enrollment: Limited to 15.

Phillip Robert Malone

Half course (fall term). M., 3–5.

How collisions of interests in online space play out in lawsuits or in proposals before legislatures -- controversies involving Google, YouTube, Apple, Microsoft, MySpace. Examines broad questions of social and technology policy through the lens of law and specific lawsuits. Topics: copyright and fair use, peer-to-peer file sharing, digital rights management, and the DMCA; online speech, anonymity, and privacy; citizen journalism and new media; competition and antitrust; pornography, child protection, and online gambling; security, phishing, and spyware.

Note: Open to Freshmen only.

***Freshman Seminar 44g. Public Policy Approaches to Global Climate Change**

Catalog Number: 1032 Enrollment: Limited to 15.

Richard N. Cooper

Half course (fall term). W., 2–4.

Reviews what is known about greenhouse gas emissions' possible impact on climate. Explores possible impact of climate change on social and economic conditions over the next century. Investigates possible public policy responses to these developments, including actions both to adapt to and to mitigate climate change. What would be the costs of adaptation? Would an investment in mitigating the changes be worthwhile? Are there possibilities for international cooperation in dealing with the problem?

Note: Open to Freshmen only.

***Freshman Seminar 44j. The Aztecs and Maya**

Catalog Number: 7826 Enrollment: Limited to 15.

David L. Carrasco and William L. Fash

Half course (spring term). W., 1:30–4:30.

Explores Aztec and Maya culture, history, religion from insider and outsider (Spanish)



perspectives. Analyzes how religion fueled genesis and expansion of Aztec empire as well as the Conquistadors' activities. Examines approaches used to piece back together puzzles of how a magnificent cultural tradition, the Maya, took root and thrived in tropical forest setting. Examines how modern scholars and students explore world-view, social relations, and history of other cultures including Maya and Aztec peoples today.

Note: Open to Freshmen only.

***Freshman Seminar 45g. Human, Animals, and Cyborgs**

Catalog Number: 57088 Enrollment: Limited to 15.

Jill Constantino

Half course (fall term). W., 1–3.

How do we fit among the animals, plants, and materials around us? In this seminar, we will examine the historical construction of the human category. How do our morals, science, and media blur human and animal groups? How do machines, drugs, and synthetics transform us? What does it mean when computers think like we do and when medicines make us happy, strong, and beautiful? Should we consider ourselves humans, animals, or cyborgs?

Note: Open to Freshmen only.

***Freshman Seminar 45m. The Concept of Race in Science and Medicine in the United States**

Catalog Number: 7675 Enrollment: Limited to 12.

Evelynn M. Hammonds

Half course (fall term). Th., 2:30–4:30.

Studies how biologists, anthropologists, and physicians took up the questions of racial classifications, race differences, and race mixing. How did these ideas change as new tools such as genetics and evolutionary theory were developed? What is the relationship between scientific debates about race and other debates about identity and citizenship in the larger US context? How do new ideas about genetic variation among/between human groups enlist or resist concepts of race today?

Note: Open to Freshmen only.

***Freshman Seminar 45n. The Normans in European History: Vikings, Normans, Norman Conquests, and Achievements, 850-1204 - (New Course)**

Catalog Number: 17714 Enrollment: Limited to 15. Prerequisite: imagination

Thomas N. Bisson

Half course (fall term). Th., 2:30–4:30.

Readings, discussions, reports, and writings on one of the formative subjects of European history. This seminar is designed for ALL students, whatever their interests or intended concentrations. It will also introduce historical study at Harvard, including the Middle Ages. How Vikings became Normans, how Normans conquered England, what we learn from the Bayeux Tapestry (women-made, one of human history's greatest records): these are some of our questions. Reports and (normally) one paper, in programs planned individually with students.

Note: Open to Freshmen only.

***Freshman Seminar 45s. Negotiation and Conflict Management: Dealing With Emotions and Identity - (New Course)**



Catalog Number: 78142 Enrollment: Limited to 15.

Daniel Louis Shapiro

Half course (fall term). M., 1–4.

From the global climate talks to the Israeli-Palestinian negotiations, traditional approaches to conflict resolution are faltering -at great cost to human life and regional and global economies. In this highly interactive course, we will explore a new generation of research and practical tools aimed at addressing the emotional roots of conflict. We will apply the theory to a diversity of real-life negotiations, ranging from interpersonal disputes to international conflict.

Note: Open to Freshmen only.

***Freshman Seminar 45u. Suicide and Violence: a Public Health Perspective - (New Course)**

Catalog Number: 47928 Enrollment: Limited to 15.

Matthew J. Miller

Half course (spring term). Th., 2:30–4:30.

Approximately one million people die by suicide each year - or one death every 40 seconds. Another million die by violence directed at others: 600,000 by homicide and 400,000 in armed conflicts. In the United States too, annual suicide deaths outnumber homicide deaths, but both take a large and disproportionate toll on young people. This course provides an introduction to the scientific study of suicide and violence in the United States and abroad from a public health perspective.

Note: Open to Freshmen only.

***Freshman Seminar 45z. Imagining the American Suburb Post-World War II - (New Course)**

Catalog Number: 71941 Enrollment: Limited to 15.

Paige L. Meltzer

Half course (fall term). Tu., 3–6.

This course considers the powerful fantasies of "the suburbs" since World War II, how these fantasies have changed over time, and what these fantasies and changes tell us about American culture, politics, and identity. We will examine "Suburbia's" association with the ephemeral American Dream, conformity, hetero-normative gender performance, teen rebellion, racial tension, sprawl, and urban decay. Texts include histories, novels, films, television, and graphic novels. There will be 3 out-of class film viewings.

Note: Open to Freshmen only.

***Freshman Seminar 46e. The Germans and Their History**

Catalog Number: 7802 Enrollment: Limited to 12.

Steven Ozment

Half course (spring term). W., 3–5.

Can earlier centuries shed light on the present ones? The seminar will reach back to the first century C.E. and forward to the twenty-first century in search of continuities and discontinuities in the political and cultural life of Germans. The goal will be to discover defining experiences in German history and memory and to ask what they promise, or portend, for a united and democratic Germany facing new demographic, economic, and geo-political crises.

Note: Open to Freshmen only.



***Freshman Seminar 46g. America Inside Out: Foreign Perspectives on the United States - (New Course)**

Catalog Number: 28739 Enrollment: Limited to 15.

George Holt Blaustein

Half course (fall term). Th., 2–5.

The United States has long sparked the imagination or kindled the ire of foreign artists, novelists, sociologists, revolutionaries, and cultural critics. This seminar explores foreign perspectives of America from the 19th century to the present: fiction, poetry, travel-writing, visual arts, film, sociology and psychology. Foreign commentary from many regions illuminates hitherto unseen dimensions of American history and culture, and reveals the influence of the U.S. abroad.

Note: Open to Freshmen only.

***Freshman Seminar 46j. Freedom of Expression: Is It the Primary Right? The Divide Between Europe and the United States - (New Course)**

Catalog Number: 43846 Enrollment: Limited to 15.

Ioanna Tourkochoriti

Half course (spring term). Th., 3–5.

Why must speech be free? Must speech enjoy a special protection compared to other freedoms? The course will discuss the divide between Europe and United States on the protection of freedom of expression. It will study case law of the Supreme Court of the USA and of the European Court of Human rights and other European institutions. Cases studies will include hate speech, pornography, the Islamic scarf ban in France, the Danish cartoons and reality shows.

Note: Open to Freshmen only.

***Freshman Seminar 46n. The Great Immigration Debate - (New Course)**

Catalog Number: 41727 Enrollment: Limited to 15.

Rebecca B. Galemba

Half course (spring term). Tu., 1–3.

The seminar explores the historical, cultural, and socioeconomic context of immigration and how it becomes contested and meaningful to diverse groups in society. We employ a global comparative perspective to examine how immigration is politicized throughout the world and embedded in larger global networks of socioeconomic and cultural relations. We focus on the experiences of immigrants themselves in order to understand how class, ethnicity, race, and gender identities are reconfigured as people move across borders.

Note: Open to Freshmen only.

***Freshman Seminar 46p. Human Rights in Peace and War**

Catalog Number: 8408 Enrollment: Limited to 15.

Jennifer Leaning (Public Health) and Jacqueline Bhabha

Half course (fall term). Th., 3–5.

Studies how human rights perspective illuminates relations between state authority and individuals and defines standards of behavior that societies agree to aspire to reach. Topics include the 1948 Universal Declaration of Human Rights, rights in political and economic spheres, the rights of women, children, and refugees, international human rights law and international humanitarian law, and the state, regional, and international processes and structures



that establish and monitor the regime of international human rights law.

Note: Meets at the John F. Kennedy School of Government. Open to Freshmen only.

***Freshman Seminar 46t. Rebels With a Cause: Tiananmen in History and Memory - (New Course)**

Catalog Number: 54666 Enrollment: Limited to 15.

Rowena Xiaoqing He

Half course (fall term). Tu., 3–5.

In spring 1989, millions of Chinese took to the streets calling for political reforms. The nationwide demonstrations and the college students' hunger strike on Tiananmen Square ended with the People's Liberation Army firing on unarmed civilians. Student leaders and intellectuals were purged, imprisoned, or exiled. ?Tiananmen? remains a political taboo in China today despite the Tiananmen Mothers' struggle to keep the forbidden memory alive. This course will explore the Tiananmen Movement in history and memory.

Note: Open to Freshmen only.

***Freshman Seminar 46u. Punks, Queers, and Pakistanis: Subcultures in Modern Britain - (New Course)**

Catalog Number: 69773 Enrollment: Limited to 15.

Mo Moulton

Half course (fall term). Th., 3–5:30.

British cultural theorists developed the idea of subculture to explain the startling emergence of groups like punks, mods, and skinheads. In this course, subcultures will be our passport to the undergrounds and by-ways of modern Britain. We will consider some themes of British history, including the loss of empire, the rise of consumer culture, and the emergence of queer politics. We will also consider the uses of "subculture" as a category for understanding modern societies.

Note: Open to Freshmen only.

***Freshman Seminar 47n. The Sixties: History and Memory - (New Course)**

Catalog Number: 56834 Enrollment: Limited to 15.

Ian K. Lekus

Half course (fall term). W., 3–5.

The movements of the "Long Sixties" - notably civil rights and Black Power, the New Left and the counterculture, peace activism, feminism, and gay liberation - have transformed American politics and culture. Drawing upon a broad range of primary sources, we will explore the struggle to define what it meant to be American during this period, and how that struggle has been remembered, so that students can develop their own interpretations of this pivotal era of history.

Note: Open to Freshmen only.

***Freshman Seminar 47p. Just Friends: I Don't Love You Like That - (New Course)**

Catalog Number: 87048 Enrollment: Limited to 15.

Bonnie M. Talbert

Half course (fall term). W., 2–4.

Tell someone that you just want to be friends and it will be taken as an assertion that you are slotting them into a secondary role-they are not seen as suitable for the highest levels of



affection, i.e., romantic love. But friendship has not always been seen as a lesser relation of romance. This raises some important questions about the nature of friendship, and this course will examine these and other related topics.

Note: Open to Freshmen only.

***Freshman Seminar 47s. Humanitarian Intervention - (New Course)**

Catalog Number: 29325 Enrollment: Limited to 15.

Scott P. Staring

Half course (fall term). M., 2–4.

This course will examine the changing nature of humanitarian intervention since the end of the Cold War. Through weekly reading assignments, student presentations, video clips and films, this course will look at the methods and means of modern intervention, how such interventions are justified today by scholars and experts, as well as how they are represented to the public by the media, international organizations and governments.

Note: Open to Freshmen only.

***Freshman Seminar 48j. Torture, Terrorism, Pornography, Famine and the Danish Cartoon Controversy: Issues in Contemporary Democracies - (New Course)**

Catalog Number: 95954 Enrollment: Limited to 15.

Carla Yumatle

Half course (spring term). W., 2–4.

The course addresses timely problems and core values of contemporary democracies. The problems that we will examine include: torture, terrorism, pornography, immigration, the Danish Cartoon Controversy and famine. Each of these topics poses a challenge to key values characteristic of liberal-democracies such as the respect for rights, toleration, multiculturalism, and freedom of speech. We will study the philosophical underpinnings of rights, toleration, multiculturalism and freedom of speech as a theoretical background to the applied cases.

Note: Open to Freshmen only.

***Freshman Seminar 48o. The History and Practice of Ancient Greek Astronomy**

Catalog Number: 8926 Enrollment: Limited to 12.

Mark Schiefsky

Half course (spring term). Th., 4–6.

The seminar has two goals: (1) to gain an understanding of the historical development of ancient Greek astronomy, by examining both theories and concrete details of ancient astronomical practice; and (2) to address general questions about the nature of science raised by this development, including especially the relationship of theory to observation and the role of models. Class presentation, weekly exercises, and one paper.

Note: Open to freshman only.

Prerequisite: No mathematics beyond high-school trigonometry is required.

***Freshman Seminar 48v. North Korea as History and Crisis**

Catalog Number: 5209 Enrollment: Limited to 12.

Carter J. Eckert

Half course (spring term). W., 3–5.

Explores the historical context of the present crisis on the Korean peninsula and engages students



in current debates about the crisis from a variety of different official, institutional, and popular perspectives, including those of North and South Korea, the United States, China, Japan, Russia, and other concerned parties, such as the United Nations. Students encouraged to develop own perspectives on resolving crisis. Examines role of historical forces in shaping the crisis and its possible resolution.

Note: Open to Freshmen only.

***Freshman Seminar 49g. The Holocaust, History and Reaction**

Catalog Number: 1208 Enrollment: Limited to 12.

Kevin J. Madigan (Divinity School)

Half course (spring term). Th., 2–4.

Approaches Nazi persecution of European Jewry from several disciplinary perspectives. Presents background and narrative of the Holocaust, introduces the use of primary historical sources, and studies some of the major historiographical debates. Evaluates religious and theological reactions to the Holocaust -- uses literary, cinematic, and theological sources. Considers the role played by the Protestant and Catholic churches and theologies in the Holocaust. Assesses role played by the Holocaust in today's world, specifically in the United States.

Note: Open to Freshmen only.

***Freshman Seminar 49n. Measurements of the Mind: The Creation and Critique of the Psychological Test**

Catalog Number: 9965 Enrollment: Limited to 15.

Marla D. Eby (Medical School)

Half course (fall term). W., 3–5.

Introduces the history of psychological tests, from the perspective of the psychologists using them, the people tested, and the general public. Examines the creativity within psychology in the making of such tests, as well as the drawbacks and dangers of the (mis)uses of these instruments. Explores tests in current use, as well as tests contained in various Harvard archives. Final project for this seminar involves the design of an original psychological test.

Note: Open to Freshmen only.

***Freshman Seminar 49y. Amateur Athletics**

Catalog Number: 4686 Enrollment: Limited to 12.

Harry R. Lewis

Half course (spring term). M., 1–3.

The study of sports as a lens through which to explore social and ethical paradoxes of American life. Does the amateur ideal make sense today? The history of athletics in ancient Greece, Victorian England, and America. College, Olympic, and professional athletics. Athletic competition as a social, spiritual, educational, and commercial institution. The relation of recent trends, including the democratization and internationalization of higher education, to the amateur ideal.

Note: Open to Freshmen only.

***Freshman Seminar 49z. The Art of the Impossible: Political Leadership in the 20th Century**

Catalog Number: 7628 Enrollment: Limited to 15.



Roderick MacFarquhar

Half course (fall term). W., 2–4.

Academic interest in political leaders has declined as historians and political scientists have focused on political, economic, and social forces. But certain individual leaders stand out for having bestowed great benefit or having wreaked great havoc upon their nations. Considers political leadership not as the art of the possible but the art of the impossible: mobilizing a nation for Herculean efforts or leading it into uncharted waters.

Note: Open to Freshmen only.

House Seminars

House Seminars are limited enrollment courses sponsored by the individual residential Houses. They are open to undergraduates only, whether freshmen or upperclassmen, across all house affiliations. They are letter-graded degree-credit courses that may be taken Pass/Fail. Enrollment requires the permission of the instructor.

Primarily for Undergraduates

Leverett

***Leverett 74. Sigmund Freud and C. S. Lewis: Two Contrasting World Views**

Catalog Number: 0773 Enrollment: Limited to 20.

Armand M. Nicholi II (Medical School) and Ryan Dale Taliaferro

Half course (spring term). M., 2–4.

Focuses on "scientific" Weltanschauung (world view) of Freud as a key to his life and work. Examines the world view Freud attacks through readings from C. S. Lewis and letters between Freud and Oskar Pfister, Swiss psychoanalyst and theologian. Themes: source of morality and ethics, human sexuality, problem of pain and human suffering, definition of happiness and reason that unhappiness prevails, role of different categories of love in human relationships, and "the painful riddle of death."

Mather

***Mather 74. Memoirs and Memory in 20th Century Europe**

Catalog Number: 76482 Enrollment: Limited to 20.

Laura Schlosberg

Half course (spring term). M., 2–4.

This seminar explores memoirs that highlight memories - and some "forgettings" - of public and private moments in twentieth-century Europe. Our approach considers memoirs at the intersection of literature and history. We will examine a number of historical events from different memoirs and commemorations, including the Russian Revolution, Jazz-age Paris, the London Blitz and the fall of the Berlin Wall. Eyewitness accounts, historical studies, museum exhibits and fictional depictions are also considered.

Pforzheimer



***Pforzheimer 70. College Student Development Theory**

Catalog Number: 13603 Enrollment: Limited to 20.

Lisa M. Boes

Half course (spring term). Th., 3–5.

Debates about the purpose of undergraduate education and the content of the curriculum are informed by beliefs and theories of college student learning and development. This course examines the cognitive, interpersonal, identity and psycho-social theories of human development that shape the college experience. A theoretical foundation in student development theory is valuable for students who wish to understand and their own learning experiences and for administrators and instructors who develop policies and teach undergraduate students.

Winthrop

***Winthrop 75. The Laws of War**

Catalog Number: 7271 Enrollment: Limited to 15.

Gregg Andrew Peebles

Half course (spring term). M., 3–5.

What are the "laws of war"? This seminar examines the historical development of two legal concepts: *jus ad bellum*, which judges the legitimacy of the use force in international relations; and *jus in bello*, which defines the duties of belligerents during an armed conflict. Drawing on this background in international and U.S. law, the seminar then explores how these laws have influenced the U.S. "War on Terror" and how they might shape future conflicts.

Note: Open to students from all Houses.

African and African American Studies

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Department of African and African American Studies

Evelyn Brooks Higginbotham, Victor S. Thomas Professor of History and of African and African American Studies (*Chair*) (on leave 2010-11)

Lawrence D. Bobo, W. E. B. Du Bois Professor of the Social Sciences (*Acting Chair*)

Emmanuel K. Akyeampong, Professor of History and of African and African American Studies

Ali S. Asani, Professor of Indo-Muslim and Islamic Religion and Cultures

Mark Auslander, Visiting Assistant Professor of African and African American Studies

Robert H. Bates, Eaton Professor of the Science of Government and Professor of African and African American Studies

Homi K. Bhabha, Anne F. Rothenberg Professor of the Humanities



Suzanne P. Blier, Allen Whitehill Clowes Professor of Fine Arts and Professor of African and African American Studies
 Glenda R. Carpio, Professor of English and of African and African American Studies (*Director of Undergraduate Studies*)
 Adrienne L. Childs, Visiting Lecturer on African and African American Studies (*University of Maryland*)
 Caroline M. Elkins, Professor of History
 Marla F. Frederick, Professor of African and African American Studies and of Religion
 Duana Fullwiley, Assistant Professor of Anthropology and of African and African American Studies
 Henry Louis Gates, Jr., Alphonse Fletcher, Jr. University Professor
 Claudine Gay, Professor of Government and of African and African American Studies
 Grey Gundaker, Visiting Lecturer on African and African American Studies
 Evelyn M. Hammonds, Barbara Gutmann Rosenkrantz Professor of the History of Science and of African and African American Studies, Dean of Harvard College
 Jennifer L. Hochschild, Henry LaBarre Jayne Professor of Government and Professor of African and African American Studies, Harvard College Professor (*on leave spring term*)
 Biodun Jeyifo, Professor of African and African American Studies and of Comparative Literature
 Walter Johnson, Winthrop Professor of History and Professor of African and African American Studies (*on leave 2010-11*)
 Jamaica Kincaid, Visiting Lecturer on African and African American Studies and on English
 Michael R. Kremer, Gates Professor of Developing Societies (*on leave fall term*)
 Michèle Lamont, Robert I. Goldman Professor of European Studies and Professor of Sociology and of African and African American Studies
 Joanna Lipper, Visiting Lecturer on African and African American Studies
 Ingrid Monson, Quincy Jones Professor of African-American Music, Supported by the Time Warner Endowment, Dean of Arts and Humanities
 Marcyliena Morgan, Professor of African and African American Studies
 John M. Mugane, Professor of the Practice of African Languages and Cultures and Director of the African Language Program
 Jacob Olupona, Professor of African and African American Studies and Professor of African Religious Traditions (*Director of Graduate Studies*)
 Tommie Shelby, Professor of African and African American Studies and of Philosophy
 Kay Kaufman Shelemay, G. Gordon Watts Professor of Music and Professor of African and African American Studies
 James Sidanius, Professor of Psychology and of African and African American Studies
 Jason Sokol, College Fellow in the Department of African and African American Studies
 Werner Sollors, Henry B. and Anne M. Cabot Professor of English Literature and Professor of African and African American Studies (*on leave spring term*)
 Doris Sommer, Ira Jewell Williams, Jr. Professor of Romance Languages and Literatures and of African and African American Studies
 John Stauffer, Professor of English and of African and African American Studies (*on leave spring term*)
 Kaia Stern, Lecturer on Sociology, Lecturer on African and African American Studies
 David Williams, Florence Sprague Norman and Laura Smart Norman Professor of Public Health



in the School of Public Health and Professor of African and African American Studies in the Faculty of Arts and Sciences (*on leave spring term*)

William Julius Wilson, Lewis P. and Linda L. Geyser University Professor

Other Faculty Offering Instruction in African and African American Studies

Aisha Mahina Beliso-De Jesus, Assistant Professor of African American Religion (*Divinity School*)

Vincent Brown, Dunwalke Associate Professor of American History (*on leave 2010-11*)

Orlando Patterson, John Cowles Professor of Sociology

Mark R. Warren, Associate Professor of Education (*Education School*)

Primarily for Undergraduates

[African and African American Studies 10. Introduction to African American Studies](#)

Catalog Number: 0802

Henry Louis Gates, Jr. and Lawrence D. Bobo

Half course (spring term). M., W., (F.), at 11. EXAM GROUP: 4

An exploration of some of the key texts and issues in African American Studies from a range of disciplinary perspectives. Members of the faculty deliver guest lectures in their own areas of specialization.

Note: Required of concentrators in the African American Studies track. Students who transfer into the concentration after their sophomore year may substitute another African and African American Studies course already taken if they satisfy the Director of Undergraduate Studies that it establishes a basic familiarity with the materials covered in African and African American Studies 10. This course, when taken for a letter grade, meets the General Education requirement for United States in the World or the Core area requirement for Historical Study A. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past.

[African and African American Studies 11. Introduction to African Studies](#)

Catalog Number: 9428

Caroline M. Elkins

Half course (fall term). M., W., at 10; Th., at 2; Th., at 7 p.m. EXAM GROUP: 3

This course introduces students to the general outlines of African geography and history, as well as key controversies in the study of African health, social life, arts, and politics. Our aim is to give students a fundamental vocabulary and interdisciplinary methodology for the study of Africa. Throughout, we assume that Africa is not a unique isolate but a continent bubbling with internal diversity, historical change, and cultural connections beyond its shores.

Note: Required of concentrators in African Studies track. This course, when taken for a letter grade, meets the Core area requirement for Foreign Cultures.

[\[African and African American Studies 13. Introduction to Black Political Thought\] - \(New Course\)](#)

Catalog Number: 59207

Tommie Shelby



Half course (spring term). Tu., Th., at 11.

Introduces the key texts and figures in the African American political tradition from the antebellum period through the black power era. In addition to the more familiar black liberal and nationalist traditions, attention will be given to black conservatism, black feminism, and black leftist thought.

Note: Expected to be given in 2011–12.

[African and African American Studies 16. Sociology of the Black Community]

Catalog Number: 73035

Lawrence D. Bobo

Half course (fall term). W., 1–3.

This course examines issues of race, class, gender, and identity in the Afro-American community. Topics of special emphasis include the contemporary situation of the black family, class stratification and the conditions and prospects of the modern black middle class, black feminist thought, black educational performance, and the dynamics of race. Our objective is to arrive at a deeper sociological analysis and appreciation of the changing life experiences awaiting African Americans.

Note: Expected to be given in 2011–12.

African and African American Studies 20. Introduction to African Languages and Cultures

Catalog Number: 2048

John M. Mugane

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

An introduction to African languages and cultures. Explores language use by sub-Saharan Africans to understand, organize, and transmit indigenous knowledge to successive generations. Language serves as a road map to understanding how social, political, and economic institutions and processes develop: from kinship structures, the evolution of political offices, trade relations, to the transfer of environmental knowledge.

Note: This course, when taken for a letter grade, meets the Core area requirement for Foreign Cultures.

African Languages

Language classes are open to undergraduates, graduate students, and cross-registration applicants. For instruction in languages that are not listed, please consult the Director of the African Language Program. Not open to auditors.

Undergraduate Language Tutorials

***African and African American Studies 90r. African Language Tutorials**

Catalog Number: 7010

John M. Mugane

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

Individualized study of an African language at the elementary, intermediate, and advanced



levels. Contact hours with language coach. Emphasis on literacy. Any language not listed as a course is taught under this number.

Note: For instruction in languages that are not listed, please consult the Director of the African Language Program. Not open to auditors.

Amharic

***African and African American Studies 90r.a. Amharic**

Catalog Number: 44149

John M. Mugane

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

Individualized study of Amharic at the elementary, intermediate, and advanced levels. Contact hours with language coach. Emphasis on literacy.

Note: This course is offered only when there is demonstrated curricular and academic need on the part of the student. Please consult the Director of Language Programs for more information. Not open to auditors.

Bamanakan

***African and African American Studies 90r.b. Bamanakan**

Catalog Number: 59256

John M. Mugane

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

Individualized study of Bamanakan at the elementary, intermediate, and advanced levels.

Contact hours with language coach. Emphasis on literacy.

Note: This course is offered only when there is demonstrated curricular and academic need on the part of the student. Please consult the Director of Language Programs for more information. Not open to auditors.

Cape Verdean Creole

***African and African American Studies 90r.c. Cape Verdean Creole**

Catalog Number: 74363

John M. Mugane

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

Individualized study of Cape Verdean Creole at the elementary, intermediate, and advanced levels. Contact hours with language coach. Emphasis on literacy.

Note: This course is offered only when there is demonstrated curricular and academic need on the part of the student. Please consult the Director of Language Programs for more information. Not open to auditors.

Chichewa

***African and African American Studies 90r.d. Chichewa**

Catalog Number: 22841

John M. Mugane



Half course (fall term; repeated spring term). Spring: W., 2–4.

Individualized study of Chichewa at the elementary, intermediate, and advanced levels. Contact hours with language coach. Emphasis on literacy.

Note: This course is offered only when there is demonstrated curricular and academic need on the part of the student. Please consult the Director of Language Programs for more information. Not open to auditors.

Dinka

***African and African American Studies 90r.e. Dinka**

Catalog Number: 37948

John M. Mugane

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

Individualized study of Dinka at the elementary, intermediate, and advanced levels. Contact hours with language coach. Emphasis on literacy.

Note: This course is offered only when there is demonstrated curricular and academic need on the part of the student. Please consult the Director of Language Programs for more information. Not open to auditors.

Egyptian Hieroglyphs

Gikuyu

Gikuyu A. Elementary Gikuyu

Catalog Number: 0009

John M. Mugane

Full course (indivisible). Hours to be arranged.

Gikuyu is a Bantu language spoken by Kenya's most populous ethnic group. The Gikuyu are among Africa's most recognized peoples because of the Mau Mau freedom fighters who were mainly Gikuyu.

Note: The course is designed primarily for students who have no prior knowledge of Gikuyu; however, students with minimal knowledge of the language may also register for the course. Not open to auditors.

Gikuyu B. Intermediate Gikuyu

Catalog Number: 0010

John M. Mugane and assistant

Full course (indivisible). Hours to be arranged.

Continuation of Gikuyu A. Gikuyu is a Bantu language spoken by Kenya's most populous ethnic group. The Gikuyu are among Africa's most recognized peoples because of the Mau Mau freedom fighters who were mainly Gikuyu.

Note: Not open to auditors.

Prerequisite: Gikuyu A or the equivalent of one year's study in Gikuyu.

Gikuyu 101ar. Reading in Gikuyu

Catalog Number: 0017



John M. Mugane and assistant
Half course (fall term). Hours to be arranged.
Advanced reading in Gikuyu.
Note: Not open to auditors.
Prerequisite: Gikuyu B or equivalent.

Gikuyu 101br. Reading in Gikuyu II

Catalog Number: 0018
John M. Mugane and assistant
Half course (spring term). Hours to be arranged.
Advanced reading in Gikuyu II.
Note: Not open to auditors.
Prerequisite: Gikuyu 101ar or equivalent.

Haitian Creole

***African and African American Studies 90r.g. Haitian Creole**

Catalog Number: 68162
John M. Mugane
Half course (fall term; repeated spring term). Hours to be arranged.
Individualized study of Haitian Creole at the elementary, intermediate, and advanced levels.
Contact hours with language coach. Emphasis on literacy.
Note: This course is offered only when there is demonstrated curricular and academic need on the part of the student. Please consult the Director of Language Programs for more information.
Not open to auditors.

Hausa

***African and African American Studies 90r.h. Hausa**

Catalog Number: 83269
John M. Mugane
Half course (fall term; repeated spring term). Hours to be arranged.
Individualized study of Hausa at the elementary, intermediate, and advanced levels. Contact hours with language coach. Emphasis on literacy.
Note: This course is offered only when there is demonstrated curricular and academic need on the part of the student. Please consult the Director of Language Programs for more information.
Not open to auditors.

Igbo

***African and African American Studies 90r.i. Igbo**

Catalog Number: 31747
John M. Mugane
Half course (fall term; repeated spring term). Hours to be arranged.
Individualized study of Igbo at the elementary, intermediate, and advanced levels. Contact hours with language coach. Emphasis on literacy.



Note: This course is offered only when there is demonstrated curricular and academic need on the part of the student. Please consult the Director of Language Programs for more information. Not open to auditors.

Kinyarwanda

***African and African American Studies 90r.j. Kinyarwanda**

Catalog Number: 98376

John M. Mugane

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

Individualized study of Kinyarwanda at the elementary, intermediate, and advanced levels.

Contact hours with language coach. Emphasis on literacy.

Note: This course is offered only when there is demonstrated curricular and academic need on the part of the student. Please consult the Director of Language Programs for more information. Not open to auditors.

Krio

***African and African American Studies 90r.s. Krio - (New Course)**

Catalog Number: 74597

John M. Mugane

Half course (fall term; repeated spring term). Fall: M., W., F., at 9.

Individualized study of Krio at the elementary, intermediate, and advanced levels. Contact hours with language coach. Emphasis on literacy.

Note: This course is offered only when there is demonstrated curricular and academic need on the part of the student. Please consult the Director of Language Programs for more information. Not open to auditors.

Luganda

***African and African American Studies 90r.k. Luganda**

Catalog Number: 46854

John M. Mugane

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

Individualized study of Luganda at the elementary, intermediate, and advanced levels. Contact hours with language coach. Emphasis on literacy.

Note: This course is offered only when there is demonstrated curricular and academic need on the part of the student. Please consult the Director of Language Programs for more information. Not open to auditors.

Oromo

***African and African American Studies 90r.l. Oromo**

Catalog Number: 61961

John M. Mugane

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



Individualized study of Oromo at the elementary, intermediate, and advanced levels. Contact hours with language coach. Emphasis on literacy.

Note: This course is offered only when there is demonstrated curricular and academic need on the part of the student. Please consult the Director of Language Programs for more information. Not open to auditors.

Shona

***African and African American Studies 90r.t. Shona - (New Course)**

Catalog Number: 27694

John M. Mugane

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

Individualized study of Shona at the elementary, intermediate, and advanced levels. Contact hours with language coach. Emphasis on literacy.

Note: This course is offered only when there is demonstrated curricular and academic need on the part of the student. Please consult the Director of Language Programs for more information. Not open to auditors.

Somali

***African and African American Studies 90r.m. Somali**

Catalog Number: 10439

John M. Mugane

Half course (fall term; repeated spring term). Hours to be arranged. EXAM GROUP: Spring: 5

Individualized study of Somali at the elementary, intermediate, and advanced levels. Contact hours with language coach. Emphasis on literacy.

Note: This course is offered only when there is demonstrated curricular and academic need on the part of the student. Please consult the Director of Language Programs for more information. Not open to auditors.

Sudanese Arabic

***African and African American Studies 90r.u. Sudanese Arabic - (New Course)**

Catalog Number: 46375

John M. Mugane

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

Individualized study of Sudanese Arabic at the elementary, intermediate, and advanced levels. Contact hours with language coach. Emphasis on literacy.

Note: This course is offered only when there is demonstrated curricular and academic need on the part of the student. Please consult the Director of Language Programs for more information. Not open to auditors.

Swahili

Swahili A (formerly African and African American Studies 121). Elementary Swahili

Catalog Number: 1878



John M. Mugane

Full course (indivisible). Hours to be arranged. EXAM GROUP: 2

A study of the *lingua franca* of East Africa at the elementary level. Contact hours supplemented by language lab sessions. Emphasis on written expression, reading comprehension, and oral fluency.

Note: Not open to auditors.

Swahili B. Intermediate Swahili

Catalog Number: 3442

John M. Mugane and assistant

Full course (indivisible). Hours to be arranged. EXAM GROUP: Fall: 18

Continuation of Swahili A. A study of the *lingua franca* of East Africa at the elementary level. Contact hours supplemented by language lab sessions. Emphasis on written expression, reading comprehension, and oral fluency.

Note: Not open to auditors.

Prerequisite: Swahili A or the equivalent of one year's study of Swahili.

Swahili 101ar. Reading in Swahili

Catalog Number: 8503

John M. Mugane and assistant

Half course (fall term). Tu., Th., at 4.

Advanced reading in Swahili.

Prerequisite: Swahili B or equivalent.

Swahili 101br (formerly African and African American Studies 121b). Reading in Swahili II

Catalog Number: 7746

John M. Mugane and assistant

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

Advanced reading in Swahili II.

Prerequisite: Swahili 101ar or equivalent.

Tigrinya

***African and African American Studies 90r.n. Tigrinya**

Catalog Number: 77068

John M. Mugane

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

Individualized study of Tigrinya at the elementary, intermediate, and advanced levels. Contact hours with language coach. Emphasis on literacy.

Note: This course is offered only when there is demonstrated curricular and academic need on the part of the student. Please consult the Director of Language Programs for more information. Not open to auditors.

Twí



Twi A. Elementary Twi

Catalog Number: 0023

John M. Mugane

Full course (indivisible). Hours to be arranged. EXAM GROUP: Spring: 4

Twi is one of the regional languages of the Akan speaking peoples of Ghana, constituting the largest ethnic group in Ghana. Twi is fast becoming the *lingua franca* of the country. This course aims to help students acquire the Twi language at the basic or elementary level.

Note: The course is designed primarily for students who have no prior knowledge of Twi; however, students with minimal knowledge of the language may also register for the course. Not open to auditors.

Twi B. Intermediate Twi

Catalog Number: 0025

John M. Mugane and assistant

Full course (indivisible). Hours to be arranged. EXAM GROUP: Spring: 3

Continuation of Twi A. Twi is one of the regional languages of the Akan speaking peoples of Ghana constituting the largest ethnic group in Ghana. Twi is fast becoming the *lingua franca* of the country. The Akan people are well known for their art and culture, especially the traditional colorful Kente cloth.

Note: Not open to auditors.

Prerequisite: Twi A or the equivalent of one year's study of Twi.

Twi 101ar. Reading in Twi

Catalog Number: 0026

John M. Mugane and assistant

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

Advanced reading in Twi.

Note: Not open to auditors.

Prerequisite: Twi B or equivalent.

Twi 101br. Reading in Twi II

Catalog Number: 0028

John M. Mugane

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

Advanced reading in Twi II.

Note: Not open to auditors.

Prerequisite: Twi 101ar or equivalent.

Wolof

***African and African American Studies 90r.o. Wolof**

Catalog Number: 25546

John M. Mugane

Half course (fall term; repeated spring term). Spring: Tu., at 5; Th., at 5; M., at 4; W., at 10; M., at 11; W., at 11.

Individualized study of Wolof at the elementary, intermediate, and advanced levels. Contact



hours with language coach. Emphasis on literacy.

Note: This course is offered only when there is demonstrated curricular and academic need on the part of the student. Please consult the Director of Language Programs for more information. Not open to auditors.

Xhosa

***African and African American Studies 90r.p. Xhosa**

Catalog Number: 92175

John M. Mugane

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

Individualized study of Xhosa at the elementary, intermediate, and advanced levels. Contact hours with language coach. Emphasis on literacy.

Note: This course is offered only when there is demonstrated curricular and academic need on the part of the student. Please consult the Director of Language Programs for more information. Not open to auditors.

Yoruba

Yoruba A. Elementary Yoruba

Catalog Number: 0029

John M. Mugane

Full course (indivisible). Hours to be arranged. EXAM GROUP: Fall: 12

Yoruba is spoken in the West African countries of Nigeria, Benin Republic, and parts of Togo and Sierra Leone, therefore constituting one of the largest single languages in sub-Saharan Africa. Yoruba is also spoken in Cuba and Brazil. Students will acquire the Yoruba language at the basic or elementary level.

Note: Primarily designed for students who have no prior knowledge of Yoruba. However, students with minimal knowledge of the language may also register for the course. Not open to auditors.

Yoruba B. Intermediate Yoruba

Catalog Number: 0031

John M. Mugane

Full course (indivisible). Hours to be arranged. EXAM GROUP: Spring: 18

Continuation of Yoruba A. Yoruba is spoken in the West African countries of Nigeria, Benin Republic, and parts of Togo and Sierra Leone, therefore constituting one of the largest single languages in sub-Saharan Africa. Yoruba is also spoken in Cuba and Brazil. Students will acquire the Yoruba language at the basic or elementary level.

Note: Not open to auditors.

Prerequisite: Yoruba A or the equivalent of one year's study of Yoruba.

Yoruba 101ar. Reading in Yoruba

Catalog Number: 0033

John M. Mugane and assistant

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



Advanced reading in Yoruba.

Note: Not open to auditors.

Prerequisite: Yoruba B or equivalent.

Yoruba 101br. Reading in Yoruba II

Catalog Number: 0035

John M. Mugane and assistant

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

Advanced reading in Yoruba II.

Note: Not open to auditors.

Prerequisite: Yoruba 101a or equivalent.

Zulu

***African and African American Studies 90r.q. Zulu**

Catalog Number: 40653

John M. Mugane

Half course (fall term; repeated spring term). Fall: M., at 11; Spring: Hours to be arranged.

Individualized study of Zulu at the elementary, intermediate, and advanced levels. Contact hours with language coach. Emphasis on literacy.

Note: This course is offered only when there is demonstrated curricular and academic need on the part of the student. Please consult the Director of Language Programs for more information. Not open to auditors.

Undergraduate Tutorials

***African and African American Studies 91r. Supervised Reading and Research**

Catalog Number: 1269

Glenda R. Carpio and members of the Department

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

Students wishing to enroll must petition the Director of Undergraduate Studies for approval, stating the proposed project, and must have permission of the proposed instructor. Ordinarily, students are required to have taken some coursework as background for their project.

African and African American Studies 97. Sophomore Tutorial: Race and Humanism

Catalog Number: 3022

Duana Fullwiley

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

This course examines the place and social function of racial logics in humanist discourse. Drawing on historical, anthropological, and biological examples, students explore how human particularism and universals often work together to establish both racial distinction and the notion of "the human" more generally. Interdisciplinary in nature, this course will explore diverse case studies that include early 20th century colonial rule in French West Africa, the philosophies behind the Parisian Negritude movement, the work of the Boasian school of American anthropology, the creation of UNESCO and its statements on race, and the evolution of the American Anthropological Association's and the American Sociological Association's



statements on race. We will also review the most recent debates on human biological differences, and similarity, in the life sciences in the late 20th and early 21st century with regard to the Human Genome Project, the HapMap, and other key molecular-based studies on human distinction within the field of genomics.

***African and African American Studies 98. Junior Tutorial - African American Studies**

Catalog Number: 6272

Glenda R. Carpio and members of the Department

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

Students wishing to enroll must petition the Director of Undergraduate Studies for approval, stating the proposed project, and must have the permission of the proposed instructor. Ordinarily, students are required to have taken some coursework as background for their project.

Prerequisite: Completion of African and African American Studies 10, or a substitute course approved by the Director of Undergraduate Studies.

***African and African American Studies 98a. Junior Tutorial - African Studies**

Catalog Number: 3070

Glenda R. Carpio and members of the Department

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

Students wishing to enroll must petition the Director of Undergraduate Studies for approval, stating the proposed project, and must have the permission of the proposed instructor. Ordinarily, students are required to have taken some coursework as background for their project.

Prerequisite: Completion of African and African American Studies 11, or a substitute course approved by the Director of Undergraduate Studies.

***African and African American Studies 99. Senior Thesis Workshop**

Catalog Number: 8654

Glenda R. Carpio and members of the Department

Full course. Fall: M., 2–4.

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

Note: Enrollment limited to honors candidates.

For Undergraduates and Graduates

African and African American Studies 103. From Plantations to Prisons: An Overview of the U.S. Punishment System - (New Course)

Catalog Number: 65486

Kaia Stern

Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

This course serves as an introduction to the current crisis of mass incarceration. Specifically, it focuses on the religio-historical roots of the U.S. penal industry, the unprecedented prison population explosion (in terms of race, gender and class), and the relevance of major social problems in American cities to democracy, community and family. A visit to at least one Massachusetts state jail/prison will be incorporated into the curriculum.



African and African American Studies 104. Witchcraft, Rituals and Colonialism - (New Course)

Catalog Number: 91872

Aisha Mahina Beliso-De Jesus (Divinity School)

Half course (spring term). Th., 12-2. EXAM GROUP: 14, 15

This course will explore the coming together of ideas on witchcraft and rituality as discourses and practices of power, gender, race, and sexuality in colonial and imperial moments. We will examine history, literature, films, and social theory dealing with different forms of self-identified and interpellated forms of "witchcraft" such as questions of sorcery, brujeria, shamanism, voodoo/hoodoo, and santeria/palo - all as complex and multivalent sites of productive power. We will look at how discourses and experiences marked and claimed "witchcraft" intersect with ideas and practices of rituals in the everyday lives and perceptions of colonial, postcolonial, national, and transnational subjects in different locations. Students will take into consideration these questions in relation to broader topics such as colonialism/postcolonialism, imperialism, and transnationalisms, as well as within critiques of modernisms versus traditionalisms. This course will specifically focus on Latin America, the Caribbean, Africa, and African diasporic contexts.

Note: Offered jointly with Divinity School as 2736.

African and African American Studies 105. Imaging Blacks and Blackness in Western Art from the Renaissance to the Twentieth Century - (New Course)

Catalog Number: 32235

Adrienne L. Childs (University of Maryland)

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

Images of black people, often considered distinct, foreign, and "other", that abounded in European art reveal the nature of encounters between Europeans and blacks, and expose the power dynamics inherent in European assumptions of superiority and economic control. American slavery spawned a different trajectory of images of blacks that served to maintain the political and cultural domination of whites. This course will examine the art and explore the ideas inherent in representations of blacks from the Renaissance through the early twentieth century in Europe and North America.

African and African American Studies 106. Remembering Slavery and the Slave Trade - (New Course)

Catalog Number: 10927

Mark Auslander

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

This course explores a range of interpretive strategies for representing the Middle Passage, chattel slavery, and their aftermaths throughout the Afro-Atlantic World. We explore representational initiatives in slave castles, museums, historic houses and plantations, battlefields, reconstructed heritage communities, memorials, monuments, and other sites of memory in Africa, Europe, and the Americas. How may diverse voices and perspectives on a painful past best be represented? How is the imperative to communicate historically accurate narratives to be balanced with concerns to engage and entertain visitors and to avoid traumatizing audiences? We also explore the more nuanced, embodied forms, including ritual



performance, through which the slave trade is remembered or evoked in people's everyday experiences, throughout the Afro-Atlantic world.

African and African American Studies 107. Civil Rights in the North: From Jackie Robinson to the Boston Busing Crisis - (New Course)

Catalog Number: 92663

Jason Sokol

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

This seminar explores black struggle in America's northern cities, beginning in World War II and stretching throughout the 1970's. We study African American electoral politics, grass-roots protests, controversies over school integration and busing, the segregated urban landscape, and the idea of "the North" as a definable region of its own. This course introduces students to figures as disparate as Malcolm X, Ed Brooke, Shirley Chisholm, and Jackie Robinson.

African and African American Studies 108. African Americans and the Politics of Home Ground - (New Course)

Catalog Number: 35272

Grey Gundaker

Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

In few realms have there been such high stakes for, as Dr. W.E.B. Du Bois so famously put it, "outthinking and outflanking the owners of the world," as in African Americans' quest for just, safe, and prosperous places to call home. This course is an interdisciplinary investigation of some of the spaces and places from the colonial era through the present that African Americans have created, occupied, tried to endure or escape, worked to make livable, and struggled to keep despite continuing opposition.

African and African American Studies 109. Using Film for Social Change - (New Course)

Catalog Number: 41141

Joanna Lipper

Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

New technology and democratized access to digital media powerfully impact strategies aiming to heighten global awareness of local issues and are integral to efforts seeking to inspire empathy, political engagement, social activism, and charitable giving. With a focus on race, gender, and identity, this course will explore the portrayal of the human condition across cultures in feature films, documentaries, and photography. Students will have the opportunity to create their own multimedia projects.

African and African American Studies 110. Transatlantic Troubles: Debating Pasts in the African American Material World - (New Course)

Catalog Number: 50379

Grey Gundaker

Half course (spring term). M., 4–6; Tu., 6:30–10 p.m. EXAM GROUP: 9

Material culture study has much to offer in its own right and as an avenue into, and challenge to other fields. This course investigates intersections and disjunctions between material forms-- foodways; spiritual, religious, and healing practices; artisanal, craft, and visual art creations; and more-- and both the documents on which historians depend and the claims anthropologists and



sociologists have made about the character of the African Diaspora, especially within what is now the United States.

African and African American Studies 111. Spectral Fictions, Savage Phantasms: Race and Gender in Anti-Racist South African and African American Drama, Fiction and Film - (New Course)

Catalog Number: 22792

Biodun Jeyifo

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

Why have social orders like Apartheid South Africa and White Supremacy in segregated America that are based on extreme racial, gender and national oppression always generated often violent, hallucinatory fictions of the racial and gender identities of the oppressed? And why have the oppressed in turn often internalized these sorts of fictions and also produced counter-fictions that more or less conform to the same violent, phantasmic logic? In this course, we will explore how these fictions and counter-fictions are reproduced and challenged in some of the most powerful, canonical works of drama, fiction and cinema by South African and African American authors and filmmakers. As the Nigerian author, Chinua Achebe once famously remarked: "where one thing stands, another thing will stand beside it." To this end, we will pay special attention in the course to how, both in form and in content, race and gender always seem, constitutively, to intersect in these fictions and counter-fictions. The course is thus a study in the dark, violent but generative cultural unconscious of modern racialized and gendered identities.

African and African American Studies 115. HBO's The Wire and its Contribution to Understanding Urban Inequality - (New Course)

Catalog Number: 37899 Enrollment: Limited to 30.

William Julius Wilson

Half course (fall term). W., 2–4. EXAM GROUP: 7, 8

Although journalists and media critics around the world have heaped deserved acclaim on *The Wire*, many people do not recognize its contribution to social science. Students in this seminar will watch, critique, and discuss selected episodes of *The Wire* along with assigned readings on urban inequality that relate to these episodes. The assigned readings will feature academic books and research articles that describe and analyze life and experiences in inner city neighborhoods, as well as the social, economic, political, and cultural factors that shape or influence these experiences.

African and African American Studies 118. The History of African Americans From the Slave Trade to the Great Migration

Catalog Number: 7429

Jason Sokol

Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

Topics include the rise of slavery; the American Revolution and the problem of freedom; African American social, economic, and cultural life in the antebellum North and South; the Civil War; Reconstruction; African Americans in the Jim Crow South; and the Great Migration. Thematically, we explore the meaning of freedom, the dynamic between black struggle and white resistance, and the ways in which factors like gender and geography complicated any notions of a single black experience.



African and African American Studies 121. Please, Wake Up! - Race, Gender, Class and Ethnicity in the Early Films of Spike Lee

Catalog Number: 6238

Biodun Jeyifo

Half course (fall term). Th., 1-3:30. EXAM GROUP: 15, 16, 17

This course will explore how the intersection of race, gender, class, and ethnicity in the early cinema of Spike Lee works to give his social vision and artistic temper the qualities now commonly associated with his cinematic style. Race seems to be the central pivot of social identity in Lee's films, but in this course we will explore his remarkable attentiveness to other indices of identity and subjectivity. We will pay special attention to the tension between Lee's passionate oppositional politics and his intensely personal, experimental, and playful approach to film and its expressive idioms, techniques, and styles. Films to be studied include "She's Gotta Have It," "School Daze," "Do the Right Thing," "Mo Better Blues," and "Jungle Fever".

Note: This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts B.

African and African American Studies 123. Slaps and Embraces: Minority Literature in the Americas - (New Course)

Catalog Number: 89421

Doris Sommer

Half course (fall term). W., 2-4. EXAM GROUP: 7, 8

Traditional rhetoric assumes that orator and public, writer and reader, share the same cultural references and values. Therefore a master of language arts assumes a cultural continuity with his or her audience. But minority writers, by definition, cannot assume continuity with the majority of readers and therefore the tropes, strategies, and styles developed in "mixed company" are significantly different from those we have learned to expect. These stylistic differences, which mark cultural distances, make ethnically marked writing distinctive. It often teases readers with promises of intimate unveiling and then turns the page onto a freshly felt distance. As Toni Morrison says about her own writing, "it slaps and embraces". Primary texts include: Royal Commentaries by el Inca Garcilaso; Song of Myself by Walt Whitman; Beloved by Toni Morrison; Cecilia Valdes by Cirilo Villaverde; Sab by Getrudis Gomez de Avellaneda; Autobiography of a Slave by Juan Francisco Manzano; Riboberta Menchu; and The Storyteller by Mario Vargas Llosa.

[African and African American Studies 124. Tobacco and Sugar] - (New Course)

Catalog Number: 85925

Doris Sommer

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

Note: Expected to be given in 2011-12.

[African and African American Studies 128. Black Nationalism]

Catalog Number: 3426

Tommie Shelby

Half course (fall term). M., 1-3.

Critically examines the family of African American social philosophies generally classified under the broad rubric "black nationalism." Topics to be explored include the meaning of black



collective self-determination; the relationship between black identity and black solidarity; and the significance of Africa for black nationalist ideals. Authors to be discussed include Martin Delany, Alexander Crummell, Edward Blyden, W.E.B. Du Bois, Marcus Garvey, Elijah Muhammad, Malcolm X, Stokely Carmichael, Huey Newton, and some contemporary representatives of the tradition.

Note: Expected to be given in 2011–12.

African and African American Studies 130. W. E. B. Du Bois: Social and Political Writings

Catalog Number: 3561

Tommie Shelby

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

An introduction to the writings of Du Bois, with a focus on his social theory and political philosophy. In addition to various journal articles and editorials from *The Crisis*, texts to be examined include *The Philadelphia Negro*, *The Souls of Black Folk*, *Darkwater*, *Black Reconstruction in America*, and *Dusk of Dawn*.

African and African American Studies 131. African-American Literature to the 1920s

Catalog Number: 2589

Glenda R. Carpio

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

Close readings of major writers in the context of cultural history. I) Literature and folk culture in the slavery period: Phillis Wheatley, Olaudah Equiano, Omar Ibn Said, Victor Séjour, Lydia Maria Child, Fredrick Douglass, Harriet Beecher Stowe, William Wells Brown, Frank Webb, Martin Robison Delany, and Harriet Jacobs. II) “Post-bellum, pre-Harlem”: Charles W. Chesnutt, Paul Laurence Dunbar, Pauline Hopkins, Du Bois, Booker T. Washington, and James Weldon Johnson. We examine diverse genres—from slave narratives, novels, and poems to plays, speeches, and song lyrics.

Note: This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

[African and African American Studies 133. Richard Wright and Zora Neale Hurston]

Catalog Number: 47899

Werner Sollors and Glenda R. Carpio

Half course (spring term). Tu., 2–4; Th., 2–3.

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 (fiction and non-fiction), against the background of selected criticism.

Note: Expected to be given in 2011–12.

African and African American Studies 136. Black Religion and Economic Thought - (New Course)

Catalog Number: 16591

Marla F. Frederick

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

Since Emancipation African American religious leaders and their congregants have employed



religion not only as a means of achieving social and political mobility, but also as a means of securing economic growth and independence in light of the conditions created under American capitalism. These approaches have varied from the pragmatic strategies of Booker T. Washington, the socialist leanings of Rev. George Washington Woodbey, the "poor people's campaign" of Rev. Martin Luther King, Jr., and the increasingly popular prosperity ministries of today's neo-Pentecostal and Word of Faith communities. Such changes in strategies often coincide with changes in America's political economy over the past century. This course attempts to interrogate the development of these various strands of economic thought using texts by scholars like Max Weber (*The Protestant Ethic and the Spirit of Capitalism*), E. Franklin Frazier (*The Black Bourgeoisie*), and David Harvey (*An Introduction to Neoliberalism*) as anchoring texts to frame the social, economic and political contexts in which these strategies emerge. Other texts, including autobiographies, ethnographies, and histories offer details of how these religious understandings are framed and practiced.

African and African American Studies 137. Literature and Its Cultural 'Others' - America, Africa and the Caribbean, 1950s-80s

Catalog Number: 3258

Biodun Jeyifo

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

In the historic contexts of the civil rights struggles in the United States and the decolonizing liberation struggles in Africa and the Caribbean, this course explores how utopian or emancipatory aspirations in diverse media like literature, popular music, oratory, non-scripted street or community theatre, and popular visual media like poster art, murals, and graffiti impact people of different social classes and backgrounds.

African and African American Studies 138. The Child Left Behind: Language, Race, and Education - (New Course)

Catalog Number: 25497

Marcyliena Morgan

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

The goal of this course is to explore the wide range of issues affecting educational policy and classroom practice in multicultural settings. This course explores linguistic diversity among children and young adults in school and social and cultural settings. In particular it reviews and analyzes African American English in educational settings. It examines several theories and texts about language, race, education, and youth culture. It explores youth language in public and urban settings, and educational and literacy issues and controversies. Lectures and assignments will focus on African American English, creole languages, bilingualism, and youth culture. This course is ideal for those who want to teach in urban areas and those interested in sociolinguistics, linguistic anthropology, and discourse. General topics include language and culture, linguistics, sociolinguistics, ethnography of speaking, discourse, and interaction.

African and African American Studies 142. Hiphop and Don't Stop: 15 Years of Hiphop Scholarship - (New Course)

Catalog Number: 92126

Marcyliena Morgan

Half course (spring term). M., 2–4; Tu., at 1; Tu., at 2; Tu., at 6. EXAM GROUP: 7, 8



This course simultaneously analyzes the cultural and social aspects of hip-hop that both reflect and challenge our world. This course will explore and evaluate the most compelling thinking and research pertaining to hip-hop and the youth and institutions that continue to build and represent hip-hop culture. Since the 1990s several important scholars have engaged in dialogue about the importance of hip-hop. Geneva Smitherman and Walter Edwards examined the linguistic creativity of hip-hop and its influence on African American English and Global varieties and discourse. The first amendment free speech issues like that associated with the group 2 Live Crew that drew the public comments of Henry Louis Gates, Jr. and Houston Baker, Jr., who were then academic stars and rising public intellectuals also dominated the 1990s. Both bell hooks (1993, 1994) and Angela Davis (1993) had conversations about politics and feminism with Ice Cube, formerly of N.W.A. in the 1990s. The significance of hip-hop in African American culture was also addressed by the philosopher Cornel West (1993), historian Robin G. Kelley (1996, 1997), political scientist Michael Dawson (1997), and sociologist Paul Gilroy (1994), who celebrated and critiqued the impact of the relentless and often problematic images, philosophies, and personas materializing in hip-hop culture. The course will examine all of these issues and more.

[African and African American Studies 143. Representing Blackness: Media, Technology and Power]

Catalog Number: 0444

Marcyliena Morgan

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

This course explores the concept of race and ethnicity through the analysis of media systems and institutions, communication frames and symbolic representations and social constructions.

Note: Expected to be given in 2012–13.

African and African American Studies 144. Urban Speech Communities

Catalog Number: 8559

Marcyliena Morgan

Half course (fall term). M., 4–6. EXAM GROUP: 9

This course introduces students to basic concepts of speech communities and qualitative methods in the social sciences including ethnographic fieldwork and the analysis of face-to-face communication. It focuses on the details of everyday activities across communities of African descent and other communities and interactive environments. It is meant to provide a bridge between communications, the social sciences, linguistics, and socio-cultural anthropology through the introduction of concepts and analytical techniques that privilege observation, participation, video recording, and transcription of spontaneous interaction (as opposed to experimental tasks or introspection). Topics include language socialization, education, literacy, music and the visual arts, the power of language, miscommunication, and universal and culture-specific properties of human communication.

[African and African American Studies 147. Racial Identity, Politics, and Public Policy]

Catalog Number: 2929

Lawrence D. Bobo

Half course (spring term). W., 1–3.

This course examines how race and perceived racial difference affect political discourse,



mobilization, representation, and political outcomes. We will examine the fate of policies such as affirmative action and welfare reform, and the prospects for multiracial coalition politics. We will also consider the role of elected representatives, the media, and the traditional racial divide in affecting political outcomes of importance to African Americans and to other communities of color.

Note: Expected to be given in 2011–12.

[African and African American Studies 152. Miles Davis and John Coltrane] - (New Course)

Catalog Number: 68113

Ingrid Monson

Half course (spring term). M., 4–6.

Undergraduate and graduate seminar on the music of Miles Davis and John Coltrane.

Note: Expected to be given in 2011–12.

[African and African American Studies 155. Love and Sexuality in African American Culture]

Catalog Number: 21513

Marcyliena Morgan

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

This seminar is a comprehensive study of the representation of gender, love, and sexuality in African American and African Diasporan culture. It introduces students to the field of gender and sexuality and some of the principal questions of feminist theory, as viewed from linguistics, anthropology, media studies, and literature. The course has a strong international and multicultural focus, drawing on descriptions of women and men's speech, interaction and representation across the globe. Materials examined include film, novels, music, and the examination of numerous cultural practices. The lectures and in-class activities explore the principal concepts and issues that define the field of gender, culture, and communication. In particular, we will examine how everyday interactions, media, film, popular culture, and journalism, incorporate gender and sexuality and at times perpetuate stereotypes of men, women, and sexuality in general.

Note: Expected to be given in 2011–12.

[African and African American Studies 160. Christianity, Identity, and Civil Society in Africa]

Catalog Number: 88142

Jacob Olupona

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

This course is a historical survey of the centuries-old Christian traditions in Africa. It begins with an outline of the trajectory of Christianity's origins and presence in Africa from its beginning in ancient Mediterranean lands through the early period of European missionaries to the contemporary period. The course provides the ethnography of the old mission churches, indigenous independent African churches, and contemporary evangelical and Pentecostal Charismatic movements. The course explores the role of Christianity in relation to historical, cultural, social, and material realities of the African continent. It examines a broad range of topical issues related to conversion, missionization, and the development and growth of Christian



agencies in Africa in relation to the construction of social, theological, and religious identities, as well as Christianity's response to cultural pluralism, nationhood, citizenship, and civil society.

Note: Expected to be given in 2012–13. Offered jointly with the Divinity School as 2337.

[African and African American Studies 161. Religion, Diaspora, and Migration: Seminar]

Catalog Number: 51727

Jacob Olupona

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

This seminar explores critical and interdisciplinary approaches to the place of religion and the emergence of the new immigrant and diaspora communities in the modern world, and the discourses emerging from the practice of diaspora and migration scholarship. Using historical, ethnographic, and textual sources, the course will illuminate the lived religious experiences of immigrant and diaspora communities in the United States and elsewhere. It introduces critical perspectives on forms of interaction between religion and other aspects of social identity - ethnicity, gender, nationality, race, age, and sexuality, as well as transnational and global influences on social and cultural identity. The course also examines the complex networks of economic, cultural, and technological innovations that the "new" diaspora and immigrant communities have developed to make sense of their spiritual and cultural lives in new situations.

Note: Expected to be given in 2012–13. Offered jointly with the Divinity School as 3702.

African and African American Studies 162. Indigenous Religious Traditions and Modernity: Seminar

Catalog Number: 66834

Jacob Olupona

Half course (spring term). Tu., 3-5. EXAM GROUP: 17, 18

This seminar explores historical, theoretical, methodological, and conceptual issues central to the study of indigenous religions of the world. It examines the critique of indigeneity and explores emerging topics about the role that religion plays in indigenous peoples' lives, communities, and societies. Special topics will explore issues related to land, environment, conversion, health, the state, gender, aggression, violence, justice, and human rights. The seminar examines the interface of indigenous religions and modernity, colonial and postcolonial conditions, and local and global forces that shape the practices of indigenous traditions in various regions of the world.

Note: Offered jointly with the Divinity School as 3703.

[African and African American Studies 164. Mother Tongue: Language Domination and Social Change] - (New Course)

Catalog Number: 55711

Marcyliena Morgan

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

This course focuses on African American English and discourse, and provides a critical exploration into the notions of language life, death, and power. It is concerned with the language, discourse, and symbolic systems that construct and represent race, class, and gender in the US. We use methods from linguistic anthropology and philosophy to explore language ideologies, and the relationship between power and powerful speech. In this course we will review and critique theories of language, communication, culture, and identity, as they relate to ethnicity, race, gender, and power. In particular, we are interested in how language mediates and constructs



identity, how we associate language with race, class, and gender, and how we resist and manipulate these associations. To answer these questions we examine both public and popular culture, as well as education, literature, film, and other media. Topics include: Discourse of Politics, Race, Class, Radical Language Theory and Ideology, Breaking and Making Linguistic Rules, Marking Blackness, Normalizing Blackness, Grammaticalization, and Ideology.

Note: Expected to be given in 2011–12.

[African and African American Studies 165. Anthropology of the Black Community] - (New Course)

Catalog Number: 70818

Marcyliena Morgan

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

This course examines anthropological theory, research, and practice that relates to constructions of blackness as well as African-diasporic identities. African-diasporic contributions to anthropology as well as anthropological research and theory concerning Africana identities will be explored.

Note: Expected to be given in 2012–13.

[African and African American Studies 166. Hip-hop and Don't Stop: Introduction to Modern Speech Communities] - (New Course)

Catalog Number: 19296

Marcyliena Morgan

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

Hip-hop is a global phenomenon that influences social life far beyond the music and entertainment industries. Yet beyond descriptions and critiques of its mass appeal, few have considered hip-hop's development of standards and evaluations across all artistic areas and culture. Moreover, the consequences of an audience trained in the changing standards of hip-hop and charged with upholding them, has not been thoroughly explored. This course provides a critical examination of hip-hop in the US and its role as a cultural, political, and artistic resource for youth. It will explore the artistic, social, cultural, linguistic, and political implications of hip-hop. It is taught from the perspective of cultural and linguistic anthropology and media studies. Each year the course will include a special topic with guest lecturers. Topics include: gender and sexuality, spirituality, health, psychology, philosophy, education, politics, art, nationalism, etc.

Note: Expected to be given in 2012–13.

[African and African American Studies 168. Genetics, Society and Ethics: Social Engagement Course - \(New Course\)](#)

Catalog Number: 53006 Enrollment: Limited to 12.

Duana Fullwiley

Half course (fall term). W., 2-4, and optional laboratory F., 2-4. EXAM GROUP: 7, 8

This course explores several socially transforming components of genetics research that hold simultaneously liberating and constraining possibilities for populations and publics, both locally and globally. Through interviews, fieldwork, and participant observation (in both science and ethics fields), students will assess how the technological projects covered in the course differentially implicate national, racial, gendered, and economic groups. Special attention will be given to genetic research ethics when subject populations are Africans and African-Americans.



African and African American Studies 170. The African Past: Art and History to 1800

Catalog Number: 25009

Suzanne P. Blier

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

This course takes up key issues in the history of ancient Africa as framed principally around divergent forms of visual culture. In addition to exploring core writings and theoretical issues, students also will explore underlying interrelationships between localities, regions, and more broadly continental forms and events as seen through the interplay of geography, socio-economics, and cultural dynamics.

[African and African American Studies 171. African Art at the Peabody Museum]

Catalog Number: 91638

Suzanne P. Blier

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

Note: Expected to be given in 2011–12.

African and African American Studies 172. Protest, Rebellion and Power in East African History - (New Course)

Catalog Number: 40604

Caroline M. Elkins

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

Examines African responses to the imposition of colonial rule and to the impact of the post-colonial period in the countries of Kenya, Uganda, Tanzania, and Rwanda. Themes include initial African resistance to colonial rule, organized protests and violent rebellion against colonial institutions, and post-colonial struggles for power in the region. Case studies include popular rebellion in Zanzibar, the Mau Mau Emergency, the regime of Idi Amin, and the Rwandan genocide.

Note: This course, when taken for a letter grade, meets the Core area requirement for Foreign Cultures.

[African and African American Studies 174. The African City]

Catalog Number: 6977

Suzanne P. Blier

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

This seminar investigates critical issues in Africa's rich urban centers. Architecture, city planning, spatial framing, popular culture, and new art markets will be examined.

Note: Expected to be given in 2011–12.

[African and African American Studies 182. R & B, Soul, and Funk]

Catalog Number: 7973

Ingrid Monson

Half course (fall term). Tu., Th., 10–11:30.

Focuses on the history of African American popular music from R & B to Funk, with particular attention to the interplay among music and African American cultural and political consciousness. A variety of critical approaches to the study of popular music are also introduced.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the



General Education requirement for either Culture and Belief or Aesthetic and Interpretive Understanding, but not both. This course, when take for a letter grade, meets the Core area requirement for Literature and Arts B.

African and African American Studies 187. African Religions

Catalog Number: 0094

Jacob Olupona

Half course (fall term). Tu., 3-5. EXAM GROUP: 17, 18

This course is a basic introduction to the history and phenomenology of traditional religions of the African peoples. Using diverse methodological and theoretical approaches, the course will explore various forms of experiences and practices that provide a deep understanding and appreciation of the sacred meaning of African existence: myth, ritual arts, and symbols selected from West, East, Central, and Southern Africa.

Note: Offered jointly with the Divinity School as 3690.

African and African American Studies 192x. Religion and Society in Nigeria

Catalog Number: 8241

Jacob Olupona

Half course (spring term). Th., 4-6. EXAM GROUP: 18

The seminar examines the historical development of religion in Nigeria and explores its intersection with ethnic identity, culture, and society in pre-colonial, colonial, and contemporary periods. The course provides an understanding of various cultural tradition, historical events, and social forces that have shaped Nigeria's religious express. Many topical issues will be explored such as indigenous religious culture, Christian and Muslim identities, civil religion, and civil society and democratization, as well as religion and politics in present-day Nigeria.

Note: Offered jointly with the Divinity School as 3704.

[African and African American Studies 196. Field Research Methods in the Medical Social Sciences: Writing, Policy and Deliverables]

Catalog Number: 40116 Enrollment: Limited to 18.

Duana Fullwiley

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

This course will focus on socially engaged research in local African communities. Students will work with community groups to come up with projects that address health problems and their social determinants.

Note: Expected to be given in 2011-12.

Prerequisite: AAAS 199

[African and African American Studies 197. Poverty, Race, and Health]

Catalog Number: 5172

David Williams

Half course (spring term). M., 4-6.

This course critically examines the health status of the poor, and of African Americans and other socially disadvantaged racial and ethnic groups in the US. Attention will be focused on the patterned ways in which the health of these groups is embedded in the social, cultural, political, and economic contexts, and arrangements of US society. Topics covered include the meaning



and measurement of race, the ways in which racism affects health, the historic uses of minorities in medical research, how acculturation and migration affects health, and an examination of the specific health problems that disproportionately affect nondominant racial groups.

Note: Expected to be given in 2011–12.

[African and African American Studies 199. Delimiting Health Disparities in the African Diaspora: A Laboratory for Social Engagement]

Catalog Number: 9887 Enrollment: Limited to 18.

Duana Fullwiley

Half course (fall term). Tu., 1-3, Th., at 2.

This course maps health problems that differentially affect people of African descent. Students are introduced to theoretical approaches in the history of medicine, medical anthropology, and public health. The second half of the course will be spent conducting fieldwork in Boston-area African communities.

Note: Expected to be given in 2011–12. Students planning to take this class must attend the first lecture to apply.

Primarily for Graduates

[African and African American Studies 211. Social Structure and Culture in the Study of Race and Urban Poverty]

Catalog Number: 7733

William Julius Wilson

Half course (spring term). Th., 2–4.

The purpose of this course is to critically examine current writings and debates on how social structure and culture affect the social outcomes of the African Americans and immigrants in the US. The relevance of these works for public and social policy will also be discussed.

Note: Expected to be given in 2011–12. Open to advanced undergraduates with permission of the instructor. Offered jointly with the Kennedy School of Government as HLE-207.

African and African American Studies 214. Ethnography of the African Diaspora: Race, Gender and Power - (New Course)

Catalog Number: 76765

Aisha Mahina Beliso-De Jesus (Divinity School)

Half course (fall term). W., 2–4. EXAM GROUP: 7, 8

This graduate seminar examines how ethnographic accounts have conceptualized the African diaspora. By taking a non-regional approach we will explore intersecting topics of religion, race, sexuality, and transnationalism—as methodological lenses into the practice of ethnography. Specifically we will ask how one practices ethnography of African diaspora—a complex and constantly shifting category. What are the benefits and problems in conceptualizing diaspora through different ideas of Africanness? What relationships of power and discourses are involved and how do these play out within different connectivities? Through an in-depth focus on crucial aspects of revisionist and critical anthropology we will examine cross-conversations between scholars within the field. We will read revisionist approaches, exploring the methodological and theoretical concerns of conducting research on multiple diverging and intersecting African



diasporas.

Note: Offered jointly with the Divinity School as 2726.

African and African American Studies 218. Topics in African American History

Catalog Number: 9951

Jason Sokol

Half course (spring term). W., 2–4. EXAM GROUP: 7, 8

This graduate readings seminar surveys African American history from the slave trade through the early twentieth century. We will examine the experiences of African Americans alongside the history of race relations in a larger American context. Topics include slavery, abolition, and the transition to freedom; regional and cultural differences among African Americans; black politics; and issues of gender and class in black communities. We will also discuss the nature of historical inquiry and differing modes of historical interpretation.

African and African American Studies 231. Topics in African American Literature and Arts

Catalog Number: 4210

Werner Sollors

Half course (fall term). M., 3–5. EXAM GROUP: 8, 9

Classic studies and new research challenges. Topics include race and ethnicity, the memory of slavery, the Harlem Renaissance in its international contexts, the culture of racial segregation, European totalitarianism and American desegregation, stereotypes and black humor, archival research, and new directions in scholarship. Graduate students are expected to produce a research paper of publishable quality in this course.

African and African American Studies 241. Topics in African American Social Science

Catalog Number: 3668

James Sidanius

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

This course provides an in-depth and comprehensive exposure to the theoretical and methodological issues within the social psychology of racism and prejudice research. Approaches will include sociology, political science, and anthropology.

Graduate Courses

***African and African American Studies 301. Graduate Proseminar**

Catalog Number: 3120

Jacob Olupona 5608 and members of the Department

Half course (fall term). Tu., 12–2.

Students are introduced to major themes, classic texts, and representative current work in the broad interdisciplinary field of African and African American Studies, with a focus on the Humanities (Literature, Art, Music, and Religion).

Note: Required for all graduates in African and African American Studies in their first year.

***African and African American Studies 302. Graduate Seminar**

Catalog Number: 7559

*James Sidanius 5371 and members of the Department**Half course (spring term). Tu., 12–2.*

Students are introduced to major themes, debates and texts in the broad interdisciplinary field of African and African American Studies. African and African American Studies 302, in the spring term, focuses on the social sciences.

Note: Required for all graduates in African and African American Studies in their first year.

Ordinarily, only graduate students affiliated with the program will be permitted to attend.

***African and African American Studies 310. Individual Reading Tutorial**

Catalog Number: 1374

Emmanuel K. Akyeampong 3421, Ali S. Asani 7739, Robert H. Bates 1251, Homi K. Bhabha 4100, Suzanne P. Blier 3472, Lawrence D. Bobo 2919, Vincent Brown 4638 (on leave 2010-11), Glenda R. Carpio 4408, Caroline M. Elkins 3961, Marla F. Frederick 4728, Duana Fullwiley 5767, Henry Louis Gates, Jr. 2899, Claudine Gay 5485, Evelyn M. Hammonds 4545, Evelyn Brooks Higginbotham 3517 (on leave 2010-11), Jennifer L. Hochschild 3785 (on leave spring term), Biodun Jeyifo 1001, Walter Johnson 5616 (on leave 2010-11), Michael R. Kremer 2112 (on leave fall term), Michèle Lamont 4634, Ingrid Monson 1591, Marcyliena Morgan 2212, John M. Mugane 4776, Jacob Olupona 5608, Orlando Patterson 1091, Tommie Shelby 3863, Kay Kaufman Shelemay 3483, James Sidanius 5371, Werner Sollors 7424 (on leave spring term), Doris Sommer 2744, John Stauffer 1006 (on leave spring term), Mark R. Warren (Education School) 2010, David Williams 5778 (on leave spring term), and William Julius Wilson 2401

Allows students to work with an individual member of the faculty in a weekly tutorial.

Note: Students may not register for this course until their adviser and the faculty member with whom they plan to work have approved a program of study.

***African and African American Studies 390. Individual Research**

Catalog Number: 4046

Emmanuel K. Akyeampong 3421, Ali S. Asani 7739, Robert H. Bates 1251, Homi K. Bhabha 4100, Suzanne P. Blier 3472, Lawrence D. Bobo 2919, Vincent Brown 4638 (on leave 2010-11), Glenda R. Carpio 4408, Caroline M. Elkins 3961, Marla F. Frederick 4728, Duana Fullwiley 5767, Henry Louis Gates, Jr. 2899, Claudine Gay 5485, Evelyn M. Hammonds 4545, Evelyn Brooks Higginbotham 3517 (on leave 2010-11), Jennifer L. Hochschild 3785 (on leave spring term), Biodun Jeyifo 1001, Walter Johnson 5616 (on leave 2010-11), Michael R. Kremer 2112 (on leave fall term), Michèle Lamont 4634, Ingrid Monson 1591, Marcyliena Morgan 2212, John M. Mugane 4776, Jacob Olupona 5608, Orlando Patterson 1091, Tommie Shelby 3863, Kay Kaufman Shelemay 3483, Werner Sollors 7424 (on leave spring term), Doris Sommer 2744, John Stauffer 1006 (on leave spring term), Mark R. Warren (Education School) 2010, David Williams 5778 (on leave spring term), and William Julius Wilson 2401

Requires students to identify and carry out a research project under the guidance of a member of the faculty. Graduate students may use this course to begin work on the research paper required for admission to candidacy.

***African and African American Studies 391. Directed Writing**

Catalog Number: 4587

Emmanuel K. Akyeampong 3421, Ali S. Asani 7739, Robert H. Bates 1251, Homi K. Bhabha 4100, Suzanne P. Blier 3472, Lawrence D. Bobo 2919, Vincent Brown 4638 (on leave 2010-11),



Glenda R. Carpio 4408, Caroline M. Elkins 3961, Marla F. Frederick 4728, Duana Fullwiley 5767, Henry Louis Gates, Jr. 2899, Claudine Gay 5485, Evelyn M. Hammonds 4545, Evelyn Brooks Higginbotham 3517 (on leave 2010-11), Jennifer L. Hochschild 3785 (on leave spring term), Biodun Jeyifo 1001, Walter Johnson 5616 (on leave 2010-11), Michael R. Kremer 2112 (on leave fall term), Michèle Lamont 4634, Ingrid Monson 1591, Marcyliena Morgan 2212, John M. Mugane 4776, Jacob Olupona 5608, Orlando Patterson 1091, Tommie Shelby 3863, Kay Kaufman Shelemay 3483, James Sidanius 5371, Werner Sollors 7424 (on leave spring term), Doris Sommer 2744, John Stauffer 1006 (on leave spring term), Mark R. Warren (Education School) 2010, David Williams 5778 (on leave spring term), and William Julius Wilson 2401

Requires students to identify a major essay and carry it out under the guidance of a member of the faculty. Graduate students may use this course to begin to work on the research paper that is a requirement of admission to candidacy.

***African and African American Studies 398. Reading and Research**

Catalog Number: 0427

Emmanuel K. Akyeampong 3421, Ali S. Asani 7739, Robert H. Bates 1251, Homi K. Bhabha 4100, Suzanne P. Blier 3472, Lawrence D. Bobo 2919, Vincent Brown 4638 (on leave 2010-11), Glenda R. Carpio 4408, Caroline M. Elkins 3961, Marla F. Frederick 4728, Duana Fullwiley 5767, Henry Louis Gates, Jr. 2899, Claudine Gay 5485, Evelyn M. Hammonds 4545, Evelyn Brooks Higginbotham 3517 (on leave 2010-11), Jennifer L. Hochschild 3785 (on leave spring term), Biodun Jeyifo 1001, Walter Johnson 5616 (on leave 2010-11), Michael R. Kremer 2112 (on leave fall term), Michèle Lamont 4634, Ingrid Monson 1591, Marcyliena Morgan 2212, John M. Mugane 4776, Jacob Olupona 5608, Orlando Patterson 1091, Tommie Shelby 3863, Kay Kaufman Shelemay 3483, James Sidanius 5371, Werner Sollors 7424 (on leave spring term), Doris Sommer 2744, John Stauffer 1006 (on leave spring term), Mark R. Warren (Education School) 2010, David Williams 5778 (on leave spring term), and William Julius Wilson 2401

Note: Permission of the instructor and the Director of Graduate Studies is required for enrollment.

***African and African American Studies 399. Direction of Doctoral Dissertations**

Catalog Number: 8411

Emmanuel K. Akyeampong 3421, Robert H. Bates 1251, Homi K. Bhabha 4100, Suzanne P. Blier 3472, Lawrence D. Bobo 2919, Glenda R. Carpio 4408, Caroline M. Elkins 3961, Marla F. Frederick 4728, Duana Fullwiley 5767, Henry Louis Gates, Jr. 2899, Claudine Gay 5485, Evelyn M. Hammonds 4545, Evelyn Brooks Higginbotham 3517 (on leave 2010-11), Jennifer L. Hochschild 3785 (on leave spring term), Biodun Jeyifo 1001, Walter Johnson 5616 (on leave 2010-11), Michael R. Kremer 2112 (on leave fall term), Michèle Lamont 4634, Ingrid Monson 1591, Marcyliena Morgan 2212, John M. Mugane 4776, Jacob Olupona 5608, Orlando Patterson 1091, Tommie Shelby 3863, Kay Kaufman Shelemay 3483, James Sidanius 5371, Werner Sollors 7424 (on leave spring term), Doris Sommer 2744, David Williams 5778 (on leave spring term), and William Julius Wilson 2401

Cross-listed Courses of Interest to Students Pursuing the African Track

[Anthropology 2735. The Anthropology of Science: Methods and Theory](#)
[Anthropology 2736. Medical Anthropology of Contemporary Africa](#)



***BPH 322. Study of Epidemiologic and Biological Characteristics of HIV Viruses in Africa**
[Egyptian Aa. The Language of the Pharaohs: Introduction to Egyptian hieroglyphs I - \(New Course\)](#)

[Egyptian Ab. The Language of the Pharaohs: Introduction to Egyptian hieroglyphs II - \(New Course\)](#)

[*English 266. 'Broken English': English Language Literature in a Postmodern, Postcolonial Frame - \(New Course\)](#)

[*Freshman Seminar 25t. AIDS in Africa](#)

[Government 1100. Political Economy of Development](#)

[Government 1197. The Political Economy of Africa](#)

[Government 2227. The Politics and Economics of Africa](#)

[*History 77a (formerly *History 1902). Alcohol in Sub-Saharan Africa, 1850 to the Present]

[*History 87a (formerly *History 1912). Health, Disease, and Ecology in African History]

[*History 87b (formerly *History 1917). Human Rights in Africa: An Historical Perspective]

[History 1700 (formerly History 1904). The History of Sub-Saharan Africa to 1860]

[History 1701 \(formerly History 1907\). West Africa from 1800 to the Present](#)

[History 1702 \(formerly History 1923\). Violence, Substances and Mental Illness: African Perspectives: Conference Course](#)

[History 1711. A History of Southern Africa] - (New Course)

[History 2708 \(formerly History 2908\). Sources, Methodology, and Themes in African History: Seminar](#)

[History 2709 (formerly History 2909). Themes in Modern Sub-Saharan African History: Proseminar]

[History of Art and Architecture 195m. Art and Landscape: Africa - \(New Course\)](#)

[*History of Art and Architecture 196. Contemporary Art in Africa : Proseminar](#)

[Social Analysis 52. The Political Economy of Development](#)

[Societies of the World 26 (formerly Historical Study A-21). Africa and Africans: The Making of a Continent in the Modern World]

[Societies of the World 34 \(formerly Foreign Cultures 46\). The Caribbean: Globalization, Socio-Economic Development & Cultural Adaptation](#)

[Societies of the World 39 \(formerly Historical Study B-52\). Slavery and Slave Trade in Africa and the Americas](#)

Cross-listed Courses of Interest to Students Pursuing the African American Track

[Aesthetic and Interpretive Understanding 13 \(formerly Spanish 180\). Cultural Agents](#)

[Aesthetic and Interpretive Understanding 23 (formerly Literature and Arts A-88). Interracial Literature]

[Economics 1816. Race in America](#)

[English 172. New Immigrant Narratives - \(New Course\)](#)

[English 196. Literature of Migration and Ethnicity: The Case of the United States](#)

[*English 266. 'Broken English': English Language Literature in a Postmodern, Postcolonial Frame - \(New Course\)](#)

[*English 276x. African-American Literary Tradition: Graduate Seminar](#)



[Ethical Reasoning 16 (formerly Moral Reasoning 58). Slavery in Western Political Thought]

[*Government 98ef (formerly *Government 90ef). Black Politics in the Post Civil Rights Era]

[Government 2576. Racial and Ethnic Politics in the United States]

[*History 84g \(formerly *History 1656\). Harvard and Slavery](#)

[History 2400 \(formerly History 2600\). Readings in Colonial and Revolutionary America: Proseminar](#)

[History 2462 \(formerly History 2607\). Readings in the U.S. in the 20th Century: Proseminar](#)

[History 2463 (formerly History 2661). Graduate Readings in 20th-Century African-American History: Seminar]

[Literature and Arts A-86. American Protest Literature from Tom Paine to Tupac]

[Literature and Arts B-82. Sayin' Something: Jazz as Sound, Sensibility, and Social Dialogue]

[Music 218r. 20th-Century Music: Seminar]

[*Psychology 2570r. Intergroup Relations: Research Seminar](#)

[Societies of the World 34 \(formerly Foreign Cultures 46\). The Caribbean: Globalization, Socio-Economic Development & Cultural Adaptation](#)

[Societies of the World 39 \(formerly Historical Study B-52\). Slavery and Slave Trade in Africa and the Americas](#)

[*Sociology 185. Race and Crime in America]

[Sociology 248. Race, Politics, and Social Inequality: Seminar]

*Sociology 300hf (formerly *Sociology 300). Workshop on Race: Black Youth Culture

*Sociology 307. Proseminar on Inequality and Social Policy III

[Spanish 65. Bilingual Arts](#)

[United States in the World 15 \(formerly Social Analysis 66\). Is the American Racial Order Being Transformed?](#)

[United States in the World 28 (formerly Historical Study B-43).

Slavery/Capitalism/Imperialism: The US in the Nineteenth Century]

[United States in the World 33 \(formerly African and African American Studies 193\). Religion and Social Change in Black America](#)

African Studies

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Committee on African Studies



Caroline M. Elkins, Professor of History (*Chair*)
 Leila N. Ahmed, Victor S Thomas Professor of Divinity (*Divinity School*)
 Emmanuel K. Akyeampong, Professor of History and of African and African American Studies
 Ali S. Asani, Professor of Indo-Muslim and Islamic Religion and Cultures
 Robert H. Bates, Eaton Professor of the Science of Government and Professor of African and African American Studies
 Jacqueline Bhabha, Lecturer on Social Studies
 Suzanne P. Blier, Allen Whitehill Clowes Professor of Fine Arts and Professor of African and African American Studies
 David E. Bloom, Clarence James Gamble Professor of Economics and Demography (*Public Health*)
 Lawrence D. Bobo, W. E. B. Du Bois Professor of the Social Sciences
 Thomas F. Burke, Assistant Professor of Surgery (*Medical School*)
 Catherine Siobhan Meihua Duggan, Assistant Professor (*Business School*)
 Christopher Paul Duggan, Associate Professor of Pediatrics (*Medical School*)
 Felton J. Earls, Professor of Human Behavior and Development (*Public Health*)
 Myron Essex, Mary Woodard Lasker Professor of Health Sciences (*Public Health*)
 Wafaie W. Fawzi, Professor of Nutrition and Epidemiology (*Public Health*)
 Deborah D. Foster, Senior Lecturer on Folklore and Mythology
 Duana Fullwiley, Assistant Professor of Anthropology and of African and African American Studies
 Henry Louis Gates, Jr., Alphonse Fletcher, Jr. University Professor
 Allan G. Hill, Andelot Professor of Demography (*Public Health*)
 Nahomi Ichino, Assistant Professor of Government
 Bassey E. Irele, Librarian for Sub-Saharan Africa (*ex officio*)
 Biodun Jeyifo, Professor of African and African American Studies and of Comparative Literature
 Matthew Jukes, Assistant Professor (*Education School*)
 Calestous Juma, Professor of the Practice of International Development at the John F. Kennedy School of Government (*Kennedy School*)
 Jennifer Leaning, Francois-Xavier Bagnoud Professor of the Practice of Health and Human Rights (*Public Health*)
 Ingrid Monson, Quincy Jones Professor of African-American Music, Supported by the Time Warner Endowment, Dean of Arts and Humanities
 John M. Mugane, Professor of the Practice of African Languages and Cultures and Director of the African Language Program
 Jacob Olupona, Professor of African and African American Studies and Professor of African Religious Traditions
 Kay Kaufman Shelemay, G. Gordon Watts Professor of Music and Professor of African and African American Studies
 Bruce Walker, Professor in the Department of Immunology and Infectious Diseases (*Medical School*)
 Lucie E. White, Louis A. Horvitz Professor of Law (*Law School*)

The Committee on African Studies is a multidisciplinary group of scholars whom the Dean of the Faculty of Arts and Sciences appoints to coordinate teaching and research on sub-Saharan



Africa across the Faculty of Arts and Science's departments and all of the graduate and professional schools. The Committee serves as an intellectual hub, connecting faculty and students with a shared interest in Africa; it is also concerned with the planned development of African Studies across the University.

The Committee's goal is to advance knowledge and understanding of African peoples and cultures throughout the University. So in addition to supporting classes about Africa, the Committee organizes and sponsors lectures, seminars, conferences, films, and exhibitions about Africa. Its non-credit Africa Seminar Series is open to all faculty members and students.

The Committee also offers semester grants to student groups with an Africa focus and summer grants for students traveling to Africa. To stay current with all of the latest African activities at Harvard, students, faculty, and members of the broader Harvard community can subscribe to a weekly e-newsletter by visiting the Committee's Website, www.africa.harvard.edu. For additional information about African Studies at Harvard, please consult the Committee's Website at www.africa.harvard.edu or e-mail cafrica@fas.harvard.edu.

Students interested in pursuing an undergraduate or doctoral degree in African Studies should consult the African and African American Studies (AAAS) chapter in this catalog. The Department of African and African American Studies offers a number of courses on African topics and is home to the African Language Program, which teaches 31 African languages.

The following FAS departments offer courses on Africa. A more detailed description of these courses may be found in this catalog under the appropriate department or committee heading.

Departments with Courses of Interest:

General Education

Core Curriculum

Freshman Seminars

African and African American Studies

Anthropology

Economics

English and American Literature and Language

Environmental Science and Public Policy

Folklore and Mythology

Government



History

History and Literature

History of Art and Architecture

History of Science

Literature and Comparative Literature

Music

Near Eastern Languages and Civilizations

Romance Languages and Literatures

Study of Religion

Social Studies

Sociology

Visual and Environmental Studies

Women, Gender, and Sexuality

In addition to the departmental offerings in the Faculty of Arts and Sciences, courses on Africa can also be found in the catalogs of the Schools of Business, Design, Divinity, Education, Government, Law, Medicine, Public Health, and the Extension School. A listing can be found in the Academics section of the Committee's Website: www.africa.harvard.edu/academics.html.

Anthropology

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Department of Anthropology

Theodore C. Bestor, Reischauer Institute Professor of Social Anthropology (*Chair*) (*on leave spring term*)



Gary Urton, Dumbarton Oaks Professor of Pre-Columbian Studies (*Director of Graduate Studies and Acting Chair, spring term*)

Marie Abe, Lecturer on Anthropology

Asad A. Ahmed, Assistant Professor of Anthropology

Ofer Bar-Yosef, George Grant MacCurdy and Janet G. B. MacCurdy Professor of Prehistoric Archaeology (*on leave fall term*)

Patricia Capone, Lecturer on Anthropology

David L. Carrasco, Neil L. Rudenstine Professor for the Study of Latin America in the Faculty of Divinity and the Faculty of Arts and Sciences

Lucien G. Castaing-Taylor, John L. Loeb Associate Professor of the Humanities and of the Social Sciences

Steven C. Caton, Professor of Contemporary Arab Studies

Jill Constantino, Lecturer on Anthropology

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

Rowan K. Flad, Associate Professor of Anthropology

Duana Fullwiley, Assistant Professor of Anthropology and of African and African American Studies

Michael Herzfeld, Professor of Anthropology

Edward Akintola Hubbard, Lecturer on Anthropology

Ernst Karel, Lecturer on Anthropology

Arthur Kleinman, Esther and Sidney Rabb Professor of Anthropology in the Faculty of Arts and Sciences and Professor of Medical Anthropology in the Faculty of Medicine

Smita Lahiri, Associate Professor of Anthropology (*on leave fall term*)

C. C. Lamberg-Karlovsky, Stephen Phillips Professor of Archaeology and Ethnology (*on leave fall term*)

Catalina Laserna, Lecturer on Anthropology

Matthew Joseph Liebmann, Assistant Professor of Anthropology (*on leave 2010-11*)

Diana Loren, Lecturer on Anthropology

Peter Der Manuelian, Philip J. King Professor of Egyptology

Castle McLaughlin, Lecturer on Anthropology

Richard H. Meadow, Senior Lecturer on Anthropology

Jeffrey Quilter, Senior Lecturer on Anthropology

Sarah Louise Ralph, College Fellow in the Department of Anthropology

John S. Schoeberlein, Lecturer on Government, Lecturer on Anthropology

Lihong Shi, Lecturer on Anthropology

Mary M. Steedly, Professor of Anthropology (*Director of Undergraduate Studies*)

Ajantha Subramanian, Morris Kahn Associate Professor of Anthropology and of Social Sciences (*on leave 2010-11*)

Kimberly Theidon, John L. Loeb Associate Professor of the Social Sciences

Jason A. Ur, Associate Professor of Anthropology (*on leave spring term*)

James L. Watson, John King and Wilma Cannon Fairbank Professor of Chinese Society

Marc U. Zender, Lecturer on Anthropology

Other Faculty Offering Instruction in Anthropology



Peter T. Ellison, John Cowles Professor of Anthropology
Byron J. Good, Professor of Medical Anthropology in the Department of Social Medicine
(*Medical School*)
Susan F. Lipson, Lecturer on Human Evolutionary Biology
Sally F. Moore, Victor S. Thomas Professor of Anthropology, Emerita
David Pilbeam, Henry Ford II Professor of Human Evolution
Michael J. Puett, Professor of Chinese History
Maryellen Ruvolo, Professor of Human Evolutionary Biology
Lawrence E. Stager, Dorot Professor of the Archaeology of Israel (*on leave fall term*)
Noreen Tuross, Landon T. Clay Professor of Scientific Archaeology (*on leave spring term*)
Richard W. Wrangham, Ruth Moore Professor of Biological Anthropology (*on leave 2010-11*)

Within the Anthropology concentration, there are two principal tracks: Archaeology and Social Anthropology. For the undergraduate requirements in these programs, consult the department website, www.anthropology.fas.harvard.edu and the Undergraduate Office of the Anthropology Department.

There is also a track in biological anthropology that is supervised, along with the concentration in Human Evolutionary Biology, within the newly formed Department of Human Evolutionary Biology, as part of the Life Sciences cluster of concentrations. See www.lifesciences.fas.harvard.edu.

Department of Anthropology course listings are numerically ordered as follows:

1000-1299 and 2000-2299: Archaeology

HEB 1300-1599 and 2300-2599: Biological Anthropology (see Human Evolutionary Biology chapter)

1600-1999 and 2600-2999: Social Anthropology

Archaeology

Primarily for Undergraduates

***Anthropology 91xr (formerly Anthropology 91r). Supervised Reading and Research in Archaeology**

Catalog Number: 5660

Richard H. Meadow

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

Special study of selected topics in archaeology, given on an individual basis and directly supervised by a member of the department. May be taken for a letter grade or pass/fail. To enroll, a student must submit a petition form (available from the Anthropology Undergraduate Office or downloadable from the department's Anthropology/Archaeology website), signed by the adviser under whom he or she wishes to study, and a proposed plan of study.



***Anthropology 92xr (formerly Anthropology 92r). Archaeological Research Methods in Museum Collections**

Catalog Number: 9029

Richard H. Meadow

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

Special (individual) study of Peabody Museum collections directly supervised by a faculty member and a member of the curatorial staff. Requires a project involving a museum collection and developed in consultation with the supervisors.

Note: Must be taken for a letter grade. Priority given to students in Anthropology and related departments. To enroll, submit a petition form (available on the Anthropology [Archaeology] website), signed by both supervisors and the Head Tutor for Archaeology and including a proposed research agenda, during the term preceding the term of enrollment. See the Head Tutor for Archaeology or members of the Peabody Museum curatorial staff for more information.

***Anthropology 97x. Sophomore Tutorial in Archaeology**

Catalog Number: 0400

Gary Urton

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

This course will focus on archaeological thinking, the cognitive skeleton of the discipline of archaeology, the principles and the logic that are the foundation of all archaeological conclusions and research. Central to this is an understanding of research design, archaeological theory and interpretation, culture and material culture; as well as an understanding of how to examine and construct an archaeological argument.

Note: Required of all concentrators in Archaeology.

***Anthropology 98xa. Junior Tutorial in Archaeology**

Catalog Number: 2959

Richard H. Meadow

Half course (fall term). M., 3:30–5:30.

The junior tutorial provides a background in archaeological method and theory through critical analysis of selected issues and debates particularly focusing on more complex societies. Specific topics include the origins of agriculture and the domestication of animals, the development of complexity and “civilization,” post-colonial and historical archaeology, and related ethical and theoretical issues. Weekly readings (drawn from current journal literature), discussions, and several short writing assignments.

Note: Required of all concentrators in Archaeology.

***Anthropology 98xb. Junior Tutorial in Archaeology**

Catalog Number: 3568

Richard H. Meadow

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

This individual tutorial for archaeology students intending to write a senior thesis is normally undertaken with a member of the faculty during the second term of junior year. To enroll, a student *must submit a petition form* (available from the Anthropology Undergraduate Office, or downloadable from the department’s Anthropology/Archaeology website) with a proposed



course plan of study and the tutorial adviser's signature.

Note: Required of candidates for honors in Archaeology.

***Anthropology 99x (formerly Anthropology 99). Thesis Tutorial in Archaeology - Senior Year**

Catalog Number: 6656

Richard H. Meadow

Full course. Hours to be arranged.

Research and writing of the Senior Thesis. Limited to honors candidates. Signature of the faculty adviser required.

For Undergraduates and Graduates

Anthropology 1010. The Fundamentals of Archaeological Methods & Reasoning

Catalog Number: 8727 Enrollment: Limited to 150.

Rowan K. Flad and Jason A. Ur

Half course (fall term). M., W., at 10. EXAM GROUP: 3

A comprehensive introduction to the practice of archaeology and major themes from our human past: how do archaeologists know where to dig? How do we analyze and understand what we find? What do we know about the origins of the human species, agriculture, cities, and civilization? The course integrates methods and theory, and utilizes Peabody Museum collections, to show how we reconstruct ancient diet, trade, and political systems. We also explore the role of archaeology in colonialism, modern politics, and film.

Note: One 2 hour section per week. This course, when taken for a letter grade, meets the General Education requirement for Empirical and Mathematical Reasoning or the Core area requirement for Social Analysis. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past.

Anthropology 1025. Museum Anthropology: Thinking with Objects: Seminar - (New Course)

Catalog Number: 48543 Enrollment: Limited to 15.

Diana Loren and Patricia Capone

Half course (spring term). Tu., 1–3.

Treats the anthropology museum as a focus for historical and cultural study. By considering an early Peabody Museum collection of interpretive dioramas, students will explore the history of dioramas and the practice of modeling across fields, the various ways in which indigenous people have been represented and interpreted in museum display and throughout the history of anthropology. Readings and discussions will include historical context and issues of representation and display, indigenous perspectives on museum representation, and ethics of museum stewardship. Students will contribute to the curation of a new Peabody Museum exhibition of these historical dioramas from a contemporary anthropological perspective.

[Anthropology 1040. Origins of the Food We Eat]

Catalog Number: 1837

Ofer Bar-Yosef and Richard H. Meadow

Half course (spring term). M., W., (F.), at 11.



Focuses on arguably the most significant transition in the human past, namely, that from hunting-gathering to agriculture and pastoralism. Covers the emergence of cultivation, adoption of plant foods, and domestication of animals in key regions of Asia and Latin America. Considers the spread of foods across the world during pre- and early history and beginning ca 1500 AD.

Discusses the contributions of archaeology, climatology, botany, zoology, genetics, and linguistics to these topics.

Note: Expected to be given in 2011–12. Given in alternate years.

Anthropology 1060. Archaeological Science

Catalog Number: 2013

Richard H. Meadow

Half course (spring term). M., 7-10 pm. EXAM GROUP: 9

Focus on physical science and engineering methods and techniques used by archaeologists in the reconstruction of time, space, and human paleoecology, and analysis of archaeological materials. Topics include ¹⁴C dating, ice core and palynological analysis, stable isotope chemistry of paleodietary foodwebs, soil micromorphology and site formation, Pb isotope sourcing of metal artifacts, and microstructural and mechanical analyses of cementitious materials used in ancient monumental buildings.

Note: Meets at MIT.

Prerequisite: One year of college-level chemistry or physics.

[Anthropology 1065. The Ancient Near East]

Catalog Number: 28632

C. C. Lamberg-Karlovsky

Half course (fall term). Tu., Th., 11:30–1.

From the earliest urban and literate civilizations to the formation of empire we shall review the political, economic, and religious beliefs of the Sumerians, Babylonians, and Egyptians. These early civilizations will then be discussed in the context of the first internationalism that brought them into contact with their near and distant neighbors from eastern Europe to Central Asia, Africa, and South Asia.

Note: Expected to be given in 2011–12.

[Anthropology 1080. North American Archaeology: Lost Tribes and Ancient Capitals of North America]

Catalog Number: 5190

Matthew Joseph Liebmann

Half course (spring term). Tu., Th., 10–11:30.

Archaeology and culture history of Native North America, from the first appearance of humans over 12,000 years ago to the arrival of Europeans. Topics include intellectual and scientific contexts of the discipline's development; theories and debates over the arrival of modern humans in the New World; adaptations to changing Holocene environmental conditions; trends in cultural evolution on a continental scale; the development of agriculture and emergence of complexity; dynamic contact period interactions; and current political debates and ethical issues relating to the archaeology of North America.

Note: Expected to be given in 2011–12.



Anthropology 1085. Six Great Discoveries in New World Archaeology

Catalog Number: 2318

Jeffrey Quilter

Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

The class will use six important archaeological sites as case studies by which to understand prehistory in the Ancient Americas and to learn of changing approaches to studying the past. From three major culture regions, two sites important for specialists and a wider audience will be examined in depth. They are North America: Cahokia and Chaco Canyon; Mesoamerica: Teotihuacan and Copan; and Central Andes: Moche Huacas and Cuzco-Machu Picchu.

Note: Class designed primarily for undergraduates with no previous experience in archaeology but it may also be taken by graduate students.

[Anthropology 1090. Ethnography and Archaeology]

Catalog Number: 8716

Gary Urton

Half course (fall term). W., 7–9:30 p.m.

Archaeologists often draw on ethnographic studies of Western and non-Western societies as sources of explanation for ancient cultural practices. But the questions remain: how valid is the use of ethnographic analogy in the study of the past? What assumptions do archaeologists make about past social processes in their uses of ethnographic studies? These are some of the questions addressed in this course.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Social Analysis.

[Anthropology 1125. The Moche of Ancient Peru: Politics, Economy, Religion and Art]

Catalog Number: 0593

Jeffrey Quilter

Half course (spring term). M., W., 1–2:30.

This course will be a focused examination of the ancient Moche (ca. C.E. 100-800) of the north coast of Peru with particular attention paid to the nature of Moche political economy and its religious-ceremonial-artistic manifestations.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the General Education requirement for Societies of the World. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for either Foreign Cultures or Literature and Arts B, but not both.

[Anthropology 1130. Archaeology of Harvard Yard]

Catalog Number: 1634

William L. Fash, Patricia Capone, Christina Jayne Hodge, and Diana Loren

Half course (fall term). Th., 1–4.

Archaeological data recovered from Harvard Yard provide a richer and more nuanced view of the 17th through 19th century lives of students and faculty in Harvard Yard, an area that includes the Old College and Harvard Indian College. Students will excavate in Harvard Yard, process and analyze artifacts, and report on the results. Additional topics to be covered include regional historical archaeology, research design, surveying, archival research, stratigraphy, and artifact



analysis.

Note: Expected to be given in 2011–12.

[Anthropology 1131. Archaeology of Harvard Yard II: Laboratory Methods and Analysis]

Catalog Number: 0655

William L. Fash, Patricia Capone, Christina Jayne Hodge, and Diana Loren

Half course (spring term). Th., 1–4.

Open to students who participated in the fall term investigations in Harvard Yard, this course focuses on the detailed analysis of the materials recovered in the excavations, within the context of archival and comparative archaeological and historical research. The analysis will also include an evaluation of the results of the ground-penetrating radar surveys conducted prior to the excavations, as part of the research design for the next season of investigations of the Indian College site.

Note: Expected to be given in 2011–12.

Prerequisite: Anthropology 1130, Archaeology of Harvard Yard.

[*Anthropology 1140. Human Modification of the Landscape]

Catalog Number: 5898

Noreen Tuross

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

Northern New England provides the archaeologist and environmental scientist with a natural experiment in land clearing that was caused by the agricultural practices of humans and the subsequent reforestation of the ecosystem. This course will concentrate on laboratory methods usable onsite to uncover evidence of past land use and change. The following approaches will be explored in the context of a historic farm site and a historic tannery: inorganic and organic element and compound distributions in soil, pollen and phytolith analysis, isotopic distribution in flora, and an introduction to mobile molecular biology.

Note: Expected to be given in 2011–12. This course has a 10-day residential component prior to the start of the term.

[Anthropology 1150. Ancient Landscapes]

Catalog Number: 4736

Jason A. Ur

Half course (fall term). Th., 3–6.

Archaeological approaches to settlement and land use at the regional scale. Issues will include settlement systems, agricultural and pastoral systems, the role of humans environmental change, and also the methods used to investigate them.

Note: Expected to be given in 2011–12.

[Anthropology 1155. Before Baghdad: Cities of Ancient Mesopotamia]

Catalog Number: 8450

Jason A. Ur

Half course (spring term). M., W., at 10.

The world's first cities emerged in Mesopotamia and were the defining characteristic of ancient civilizations in what is today Iraq, Syria, and Turkey. They were inhabited by large populations, powerful kings, and the gods themselves. The course will consider the origins, ecology, spacial



arrangement, socioeconomic religious organization, religious institutions, and collapse of cities from Gilgamesh to Saddam. Through archaeology and ancient texts, students will become familiar with cities such as Uruk, Babylon, Nineveh, and Baghdad.

Note: Expected to be given in 2011–12.

[Anthropology 1160. Introduction to the Yucatec Maya Language]

Catalog Number: 4772

Marc U. Zender

Half course (fall term). M., W., at 11.

An intensive introduction to the grammar, vocabulary, and historical development of the Yucatec Maya language, still spoken by millions of speakers in Mexico and Belize, and with an extensive philological tradition stretching back to the early seventeenth century.

Note: Expected to be given in 2011–12.

[Anthropology 1161. Classic Mayan Language, Literature and Society]

Catalog Number: 3617

Marc U. Zender

Half course (fall term). M., W., at 11.

This course surveys the language, writing and literary culture of the late Classic Maya (AD 600-900) of Central America. Following an intensive introduction to the grammar and vocabulary of the Classic Mayan script, we chart its historical development and genetic relationships with other Mayan languages. These comparisons allow a sociolinguistic appreciation of the significance of ancient language variation, and also facilitate deeper understandings of the historical, ritual, and religious themes most central to Classic Mayan literature.

Note: Expected to be given in 2012–13.

Anthropology 1162. Introduction to Classical Nahuatl

Catalog Number: 9419

Marc U. Zender

Half course (fall term). Tu., Th., at 1.

An intensive introduction to the grammar, vocabulary and historical significance of Classical Nahuatl, the language of the Aztec Empire, and precursor to numerous varieties of the language still spoken in Modern Mexico. We will also study Aztec hieroglyphic writing and the extensive philological sources for Nahuatl, some dating back to the early 15th century.

Anthropology 1165. Digging the Glyphs: Adventures in Decipherment

Catalog Number: 9906

Marc U. Zender

Half course (spring term). Tu., Th., at 1. EXAM GROUP: 15

Focuses on the method and theory of archaeological decipherment. Major decipherments are studied in-depth (Egyptian hieroglyphs, the cuneiform scripts, Linear B, Maya and Aztec glyphs), as are various undeciphered scripts (Linear A, Isthmian and Rongorongo) and a number of deciphered systems encoding extinct languages (Etruscan, Meroitic and Sumerian). Other topics include the origins, development, and sociopolitical uses of writing in the ancient world.

**Anthropology 1175. The Archaeology of Ethnicity**

Catalog Number: 1022

Gary Urton

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

Ethnic identity and conflict are among the most powerful processes and relations shaping the world we live in today. Questions addressed include: What can we understand about ethnic identity and relations in the prehistoric world on the basis of the archaeological record? For example, how might differences in material culture represent and reflect markers of ethnic identity? The Peabody Museum collections will provide materials for study and analysis.

[Anthropology 1177. South American Archaeology]

Catalog Number: 6996

Gary Urton

Half course (fall term). Tu., Th., 1–2:30.

Provides an overview of Pre-Columbian civilizations on the continent of South America from the earliest record of human habitation to the time of the European invasion, in the sixteenth century. Focuses on the archaeology of the Amazon and Orinoco rivers, the Andes, and the Pacific coast of Peru and Chile. Extensive use will be made of the South American collections in the Peabody Museum.

Note: Expected to be given in 2011–12.**[Anthropology 1190. Encountering the Conquistadors]**

Catalog Number: 9956

Matthew Joseph Liebmann

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

This course examines the effects of the Spanish Conquest on indigenous peoples of the Americas between the fifteenth and eighteenth centuries, providing an introduction to the archaeology of first encounters in the Caribbean, Southeast and Southwest US, Central Mexico, highland and lowland Mesoamerica, the Amazon basin, and in the Andes. Topics addressed include the roles of disease, indigenous politics, native rebellions, and ecological change in the colonization of the 'New' World.

Note: Expected to be given in 2011–12.**Anthropology 1202. Forensic Archaeology - (New Course)**

Catalog Number: 70564

Sarah Louise Ralph

Half course (fall term). Tu., Th., at 12. EXAM GROUP: 14

Forensic archaeology has gained recognition as an important component of forensic investigations, both on local and global scales. This course examines the role of archaeology (and its associated analytical techniques) in the context of both ancient and modern forensic investigations, such as mass graves, crimes, and fakes and forgeries. The course analyses the process of investigation from identification and survey, to recovery, analysis, and reporting of evidence, and ethical responsibilities.

Anthropology 1205. The Archaeology of Violence and Conflict - (New Course)

Catalog Number: 19042



Sarah Louise Ralph

Half course (spring term). Tu., Th., at 11. EXAM GROUP: 13

Course examines evidence of violence and conflict from prehistory through to present-day.

Course analyses a range of material (e.g. osteological, artifactual, and iconographic data) in order to understand role of violence and conflict in social and political change.

Anthropology 1250. The Pyramids of Giza: Technology, Archaeology, History: Seminar - (New Course)

Catalog Number: 48924

Peter Der Manuelian

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

Focuses on the Pyramids, Sphinx, and tombs at Giza (ca. 2500 BC), in the context of ancient Egyptian history, art, and archaeology. The HU-MFA Expedition excavated Giza, resulting in today's Giza Archives Project. Seminar consists of introductory lectures, followed by student presentations. Topics range from challenges of archaeological information processing to issues of ownership and repatriation. Students may also contribute to the Giza Archives Project, at Harvard and/or the MFA.

Primarily for Graduates

***Anthropology 2000. Osteoarchaeology Lab**

Catalog Number: 0363 Enrollment: Limited to 12.

Richard H. Meadow

Half course (fall term). W., 2:30–5:30, and at least 3 hours of laboratory weekly. EXAM GROUP: 7, 8, 9

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: Given in alternate years. Open to qualified undergraduates. Fulfills laboratory course requirement for archaeology graduate students and archaeological science requirement for undergraduate concentrators.

Anthropology 2010ar. Materials in Ancient Societies: Ceramics

Catalog Number: 7163

Richard H. Meadow

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

This seminar-laboratory subject provides in-depth study of the technologies of ancient societies.

Note: Open to senior undergraduates with permission of instructor.

Anthropology 2010br. Materials in Ancient Societies: Ceramics

Catalog Number: 1753

C. C. Lamberg-Karlovsky

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

This seminar-laboratory subject provides in-depth study of the technologies of ancient societies.

Note: Anthropology 2010ar is commonly taken before Anthropology 2010br.



[*Anthropology 2020 (formerly Anthropology 1065). GIS and Spatial Analysis in Archaeology]

Catalog Number: 3729 Enrollment: Limited to 8.

Jason A. Ur

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

An introduction to the GIS and remote sensing methods used by archaeologists to document and analyze datasets at the regional scale. This class will involve the hands-on use of maps, aerial photography, satellite imagery, digital terrain models and GPS-based observations to frame and approach archaeological research questions. Labs will use sample datasets from a variety of regions but students will be responsible for assembling a GIS database for their own region of interest.

Note: Expected to be given in 2011–12.

Anthropology 2055. European Prehistory: From the Neolithic to the Iron Age: Seminar - (New Course)

Catalog Number: 25243

Sarah Louise Ralph

Half course (fall term). Th., 3–5.

Course examines archaeological evidence dating from the Neolithic to the Iron Age in northern, central and southern Europe. Themes considered include ritual, monumental and domestic architecture, space and places, burial, and identity.

Anthropology 2062. Religions of Latin America - (New Course)

Catalog Number: 60945

Davíd L. Carrasco

Half course (spring term). Tu., 2–4.

Examines the history of religions in Latin America including pre-Hispanic, colonial and contemporary mythologies, ritual practices and symbols integrating archaeological, artistic, documentary, and ethnographic source materials. Topics to be investigated include cosmology and worldview, ritual violence and sacred landscapes, saints and shamanism, miracles and religious healing, indigenous ancestor worship and African diasporic devotions, goddesses and women's roles, liberation theology and Latino/a religious themes.

Note: Offered jointly with the Divinity School as 3705.

[*Anthropology 2070a. Archaeological Method and Theory: Seminar]

Catalog Number: 4634

Matthew Joseph Liebmann

Half course (spring term). M., 2:30-5:30.

The class covers archaeological method and theory emphasizing the 1950s onwards. Large-scale trends in social theory will be balanced with attention to the ideas and writings of significant anthropologists and archaeologists.

Note: Expected to be given in 2011–12. Required of graduate students in the Archaeology Program of Anthropology; this class is designed for graduate students but enthusiastic and energetic undergraduates are most welcome.



[Anthropology 2070b. Case Studies and Research Proposal Preparation]

Catalog Number: 4238

Instructor to be determined

Half course (fall term). M., 3–5.

Seminar for graduate students that will focus on grant and paper writing, and will also include selected case studies.

Note: Expected to be given in 2011–12. Anthropology 2070a is commonly taken before Anthropology 2070b, but is not a prerequisite. Required of students in the Archaeology Program of Anthropology; open to other graduate students and advanced undergraduates with permission of instructor.

Anthropology 2090. Economic Archaeology: Culture Contact

Catalog Number: 4951

Rowan K. Flad

Half course (spring term). M., 1–4.

A seminar on economic archaeology focused on culture contact. Topics include trade (particularly trade diasporas), world-systems, ethnicity, shared material culture, and regional religious traditions.

[Anthropology 2091r. Issues in Chinese Archaeology]

Catalog Number: 4232

Rowan K. Flad

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

A close reading of archaeological site reports and secondary literature related to topics in Chinese Archaeology, with a focus on complex societies.

Note: Expected to be given in 2012–13.

Prerequisite: Adequate reading knowledge of Chinese required.

Anthropology 2092. Early China: Archaeology and Texts

Catalog Number: 9379

Rowan K. Flad and Michael J. Puett

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

A comprehensive introduction to Bronze Age China focusing on both archaeological discoveries from the second and first millennia and textual material including oracle bones, bronze inscriptions, excavated texts, and traditional accounts.

Note: Advanced undergraduates welcome.

[Anthropology 2110r (formerly Anthropology 211r). Issues in Mesoamerican Archaeology: Seminar]

Catalog Number: 7276

William L. Fash

Half course (fall term). Th., 3–6.

Considers current topics and debates in the archaeology of Mesoamerica, with special emphasis on ancient Maya civilizations. Readings and discussions focus on aspects of social process, political history, and their interplay with ritual and ideology.

Note: Expected to be given in 2011–12.



[Anthropology 2210. Archaeology and the Ancient Economy]

Catalog Number: 3586

C. C. Lamberg-Karlovsky

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

Numerous theories are advanced for the structure of the ancient economy. Different perspectives on the nature of trade, the market, reciprocity-redistribution, etc. will be reviewed. An evolutionary and global perspective will be pursued from the Neolithic to the Iron Age.

Note: Expected to be given in 2011–12. Open to undergraduates.

[Anthropology 2240. Archaeology of Production: Seminar]

Catalog Number: 8589

Rowan K. Flad

Half course (spring term). M., 2–5.

An exploration of production in archaeological contexts. Topics include specialization, craft production, production and power, the practice/performance of production, production and gender, ritualized production, and the production of memory.

Note: Expected to be given in 2011–12.

[Anthropology 2250a. Proseminar in Archaeology](#)

Catalog Number: 79363

Richard H. Meadow and Rowan K. Flad

Half course (spring term). W., 3–6. EXAM GROUP: 8, 9

This graduate seminar reviews critical issues in archaeological approaches to small-scale societies, including methods and interpretations relating to the study of mobility, sedentism, seasonality, plant and animal exploitation, and migration.

[Anthropology 2250b. Proseminar in Archaeology]

Catalog Number: 64588

C. C. Lamberg-Karlovsky, Jeffrey Quilter, and Gary Urton

Half course (spring term). W., 3–6.

This graduate seminar reviews critical issues in archaeological approaches to the study of complex societies, including writing, trade, craft specialization, technology, landscape, urbanism, and political organization.

Note: Expected to be given in 2011–12.

[Anthropology 2360r \(formerly Anthropology 206r\). The Archaeology of Human Evolution](#)

Catalog Number: 8630

Ofer Bar-Yosef

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

Selected topics in Old World paleoanthropology. Topics include *Homo erectus* and modern human dispersions, Eurasian colonization, survival strategies of the Neanderthals and their demise, radiometric techniques, transition to Upper Paleolithic, strategies of past foragers.

Cross-listed Courses



[Ancient Near East 105. History of the Ancient Near East: The Levant (up to Alexander the Great)]

[Ancient Near East 109r. History and Archaeology of the Ancient Near East](#)

[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]

[Culture and Belief 21 \(formerly Foreign Cultures 93\). Pathways through the Andes—Culture, History, and Beliefs in Andean South America](#)

[Egyptian Aa. The Language of the Pharaohs: Introduction to Egyptian hieroglyphs I - \(New Course\)](#)

[Egyptian Ab. The Language of the Pharaohs: Introduction to Egyptian hieroglyphs II - \(New Course\)](#)

[*Freshman Seminar 44j. The Aztecs and Maya](#)

[Social Analysis 50. Urban Revolutions: Archaeology and the Investigation of Early States](#)

[Societies of the World 30. Moctezuma's Mexico: Then and Now](#)

[Societies of the World 38. Pyramid Schemes: The Archaeological History of Ancient Egypt - \(New Course\)](#)

[Societies of the World 40 \(formerly Anthropology 1174\). The Incas: The Last Great Empire of Pre-Columbian South America](#)

Social Anthropology

Primarily for Undergraduates

[Anthropology 91zr \(formerly Anthropology 91r\). Supervised Reading and Research and Research in Social Anthropology](#)

Catalog Number: 3619

Mary M. Steedly

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 to the Anthropology Undergraduate Office, William James 352, a course form signed by the adviser under whom s/he wishes to study and a proposed plan of study. Anthro 91zr form available from the Undergrad Office, or the department website.

[Anthropology 92zr \(formerly Anthropology 92r\). Social Anthropology Research Methods in Museum Collections](#)

Catalog Number: 4742

Mary M. Steedly

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

Special (individual) study of Peabody Museum collections directly supervised by a faculty member and a member of the curatorial staff. Requires a project involving a Harvard Museum collection, developed in consultation with the supervisors.

Note: Must be taken for a letter grade. Priority given to students in Anthropology and related



departments. To enroll, *submit a petition form* (available from the Undergraduate Office, William James 352), signed by both supervisors, a proposed research agenda, during the term preceding the term of enrollment. Information sheets with Museum contacts available in William James 352.

Anthropology 97z. Sophomore Tutorial in Social Anthropology

Catalog Number: 5832

Michael Herzfeld

Half course (spring term). M., 2–3:30.

The sophomore tutorial provides an in-depth exploration and critique of major theoretical approaches in social and cultural anthropology, the historical context of their emergence, and their contribution and relation to the discipline as a whole. Seminar members will have a chance to read and discuss selected works by key theorists, and to see how their ideas have shaped ethnographic description and analysis.

Note: Required of all concentrators.

Anthropology 98z. Junior Tutorial in Social Anthropology

Catalog Number: 4503

Mary M. Steedly

Half course (fall term). Hours to be announced.

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 99z (formerly Anthropology 99). Thesis Tutorial in Social Anthropology - Senior Year

Catalog Number: 0787

Theodore C. Bestor (fall term) and Smita Lahiri (spring term)

Full course. Fall: W., 4-6; Spring: Hours to be arranged.

Research and writing of the Senior Thesis. Limited to honors candidates. Signature of the faculty adviser required.

For Undergraduates and Graduates

Anthropology 1600. The Ethnographic Encounter: An Introduction to Social Anthropology

Catalog Number: 8296

Steven C. Caton

Half course (spring term). Tu., Th., 10–11:30; Th., at 1; Th., at 1; Th., at 3; F., at 11. EXAM GROUP: 12, 13

This course is a critical introduction to the premises, vocabulary, and methods of the anthropological dialogue with people of other cultures. Lectures and discussions revolve around several themes central to the discipline, such as "cultural relativism," "social structure," "interpretation," "gender," "the invention of tradition," and "reflexivity." At the same time, we will seek some fair-minded insights into the collective lives of people who work, play, fight,



speak, eat and pray in ways different from our own. In the end, we will see ourselves more clearly and fairly as well.

Note: Open to freshmen. This course may fulfill the 'Entry Course' requirement for Social Anthropology.

[*Anthropology 1610. Ethnographic Research Methods]

Catalog Number: 2622 Enrollment: Limited to 20.

Instructor to be determined

Half course (spring term). Tu., 1–3.

Introduction to methodology for contemporary ethnographic field research in anthropology. Students complete assigned and independent research projects relying on a variety of ethnographic methods, under supervision of department faculty.

Note: Expected to be given in 2011–12. Open to undergraduates only. Preference given to anthropology concentrators.

[Anthropology 1621. The Anthropology of Arabia] - (New Course)

Catalog Number: 89167

Steven C. Caton

Half course (spring term). Tu., Th., 10–11:30.

The Arabian Peninsula in the twentieth century (Saudi Arabia, the Gulf States, Oman and Yemen) is the focus of this course. Among topics to be addressed are: tribal organization and its continuing importance; gender relations; varieties of Islam and their influence; old and new forms of urbanism. Primary reading materials are all ethnographic.

Note: Expected to be given in 2011–12. No background in anthropology or Middle East studies required.

Anthropology 1624. The Anthropology of Politics: Power, Domination and the State

Catalog Number: 72117

Asad A. Ahmed

Half course (spring term). M., W., 1–2:30.

The modern state increasingly governs, regulates and intervenes in what was hitherto considered private domains of life. This course will explore how modern power is produced and exercised. However, from an anthropological perspective it will also examine other non-modern state forms. Themes that will be considered in class include power, domination, resistance, and the shifting relationship between public and private.

[Anthropology 1630. Spirits, People, Place and Things: The Anthropology of Religion]

Catalog Number: 9598

Smita Lahiri

Half course (fall term). M., W., at 12.

From its inception as a discipline addressing non-Western cultures, anthropology has examined the religious beliefs and practices of people who are “not us.” Yet the cross-cultural study of phenomena such as “ritual,” “sacrifice,” and the “sacred” also renders absolute distinctions between “us” and “them” untenable. At a time when religion is in resurgence from the Americas to Asia, Africa, and the Middle East, we survey the contribution of anthropology to understanding its complexity and resilience.



Note: Expected to be given in 2011–12. This course may fulfill the ‘Entry Course’ requirement for Social Anthropology.

Anthropology 1640. Language and Culture

Catalog Number: 5844

Steven C. Caton

Half course (fall term). Tu., Th., at 10. EXAM GROUP: 12

Examines the ways forms of speaking can constitute cultural life and vice versa. A comprehensive overview of linguistic theories of structuralism and their criticism will form the basis on which to proceed to an ethnography of speaking in different societies. Topics will include: the structuralism of Ferdinand de Saussure, the Sapir-Whorf Relativity Hypothesis and its modern evocations, pragmatics, performativity, Bakhtinian dialogicality, and poetry and poetics.

Note: No previous knowledge of linguistics or of anthropology is required. This course may fulfill the ‘Entry Course’ requirement for Social Anthropology. This course, when taken for a letter grade, meets the Core area requirement for Social Analysis.

[Anthropology 1656. History and Anthropology of Pakistan: Beyond the Headlines : seminar] - (New Course)

Catalog Number: 16337

Asad A. Ahmed

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

Often described as the "Most dangerous place in the world" Pakistan has been a prominent feature of global news. Characterized by religious militancy, global terror networks, endemic corruption, gender oppression, a precarious democracy, an authoritarian state and extreme social inequality Pakistan is represented as ‘medieval’, ‘backward’ or the dark side of modernity. This course will critically engage with journalistic and sociological understandings and representations and move beyond the headlines by examining the ordinary and everyday

Note: Expected to be given in 2011–12.

[*Anthropology 1665. Humans and Animals: Seminar]

Catalog Number: 15058 Enrollment: Limited to 12.

Jill Constantino

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

Seminar on cultural and political ecology, concentrating on the spectrum of relationships between humans and animals, both wild and domesticated, that exist across cultures and throughout history. Attention will be on behavioral, material, affective, symbolic, and ideological aspects of human-animal relationships, as well as both the animalic nature of humanity and humanity’s inclination to anthropomorphize animality. We shall consider anthropological, scientific, and literary texts, as well as artistic iconography and works of cinema.

Note: Expected to be given in 2011–12. Limited to undergraduates.

Anthropology 1672. Legal Anthropology - (New Course)

Catalog Number: 58953

Kimberly Theidon

Half course (spring term). Tu., Th., 11:30–1.



This course introduces students to anthropological approaches to the study of law. This includes a survey of the historical development of the anthropology of law, and current research concerns in the field, including disputes and adjudication; legal institutions and practices; transitional justice; legal pluralism; and law and human rights. Using both classic and contemporary texts we explore the salience of the legal across a range of social and cultural contexts.

***Anthropology 1676. The Tradition Inventing Machine: State and Culture in Eurasia - (New Course)**

Catalog Number: 86794

John S. Schoeberlein

Half course (spring term). Tu., 1–3.

Once taken as anthropology's givens, "traditions" and "culture" are now viewed as creations of politics of nations/nationalism. The Soviet collapse has spawned tradition-inventing projects from the Baltics and Central Asia to the Russian Far-East, involving redefinition of useable cultural heritage, national ideology, "national character", resistance/opposition, religion, morality, personhood, modernity, patronage/corruption, and "traditionalism". Course examines roles of states, elites, "tradition-bearers", etc., based on post-Soviet anthropological literature and comparisons outside of Eurasia and outside anthropology.

Anthropology 1706. Family Change in East Asia: Seminar - (New Course)

Catalog Number: 91745 Enrollment: Limited to 15.

Lihong Shi

Half course (spring term). Tu., 1–3.

In recent decades, East Asia has witnessed drastic family transformations, such as changes in gender relations and a demographic transition to one of the lowest fertility rates in the world. This course examines these family changes in East Asia, including childbearing, the experience of coming of age, romance and courtship, marriage and family relations, divorce and singlehood, aging and old-age support, and family separation and reunion.

Anthropology 1710. Memory Politics

Catalog Number: 3793

Kimberly Theidon

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

An engagement with an interdisciplinary set of readings that analyze the relationship between memory and social reconciliation, and the role that theories of truth, justice, and redress play in this equation. We analyze truth commissions, forms of justice, and debates regarding reparations, and the points of conjuncture and disjuncture between national discourses and subaltern concepts of truth, justice, and reconciliation. Case studies include Rwanda, South Africa, Guatemala, Peru, and El Salvador.

[Anthropology 1720. Anthropology, Cultural Studies, and Film]

Catalog Number: 1522 Enrollment: Limited to 25.

Steven C. Caton

Half course (fall term). M., W., at 11; F., 5–9 p.m.

Focuses on feature-length commercial film (rather than ethnographic or documentary film) and



some of the culture industries (Hollywood, Iran, and Egypt) that produce them, paying particular attention to the Middle East. What might an anthropology of film look like? Film theory and cultural studies will be examined for their contributions to the answer to that question. Topics include the culture industry, critical theory, the ethnographic gaze, orientalism, media studies, modernity, nationalism, and transnationalism.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts B.

Anthropology 1742. Housing and Heritage: Conflicts over Urban Space - (New Course)

Catalog Number: 61658

Michael Herzfeld

Half course (spring term). M., W., at 11.

The celebration of national and local forms of heritage often rides roughshod over the interests of the local citizenry it is intended to serve. In this course we look at how such conflicts play out in several cities - notably Athens, Bangkok, Beijing, Istanbul, Jerusalem and Rome - and address the ethical, practical, and architectural conflicts that arise from an anthropological perspective.

Anthropology 1755. Creole Pop Iconographies - (New Course)

Catalog Number: 88786

Edward Akintola Hubbard

Half course (spring term). Tu., 4–6.

Creole is a term loosely applied to social entities (societies, persons, products) that are the result of racial, cultural and linguistic mixing of two or more distinct peoples. This course considers how creolity is mobilized in popular culture. It showcases ten pop icons from the Caribbean and Latin America, and considers how their iconic status is shaped by questions, assertions and debates that have also defined creolization as a concept in anthropology, literary theory and politics.

[Anthropology 1760. Nationalism and Bureaucracy: Corruption, Intimacy, and the Nation-State]

Catalog Number: 0291 Enrollment: Limited to 20.

Michael Herzfeld

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

Descriptions of the nation-state often ignore how people "muddle through," resist or simply collude with bureaucrats in pursuing ends that conflict with their professed democratic values. We examine these processes in cross-cultural practices, and especially look at how 'corruption' often secures citizen loyalty to the state and its officials in areas in which formal allegiance fails to do so.

Note: Expected to be given in 2011–12.

Anthropology 1780. The Politics of Illicit Networks in Latin America: Seminar - (New Course)

Catalog Number: 88454 Enrollment: Limited to 15.

Rebecca B. Galemba

Half course (spring term). F., 1–3.

This course explores the relation between illicit networks, the informal economy,



transnationalism, and the state in Latin America. We question the connections between illicit networks and violence and debate how violence and the law are represented by various actors. We challenge the definitions of what is considered formal and informal, and legal and illegal activity, in order to ethnographically examine what official views obscure in the everyday relations of transnational activities.

Note: Interest in Latin America and/or previous anthro courses are suggested, but not required.

[Anthropology 1790. Violence in the Andes: Coca, Conflict, and Control]

Catalog Number: 2224

Kimberly Theidon

Half course (spring term). Tu., Th., 11:30–1.

In this course we address the politics of coca and conflict in the Andean Region. We will trace different historical understandings of coca, ranging from the "miracle drug" to "moral panic". Our readings will allow us as to analyze the complex dynamics of coca production, counter-narcotics and counter-insurgency efforts in the Andes, moving between state and non-state actors as well as domestic and international interests. We will address the rise of indigenous movements within this context, and their potential to redefine political agendas in Colombia, Ecuador, Peru and Bolivia.

Note: Expected to be given in 2011–12.

[Anthropology 1795. The Politics of Language and Identity in Latin America]

Catalog Number: 7265

Catalina Laserna

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

Introduces theory and research in linguistic anthropology in the context of ethnographic research, film and popular music, from cumbia to hip-hop in Latin America. Examines how the multiplicity and contention of language ideologies play out in the everyday practices. What are the social, linguistic and discursive means by which social identity is constructed? How do ways of speaking, such as border talk and code switching, link face to face communities to the national and transnational spheres? Texts include regional ethnographies, music and documentaries from the region as well as the literature in the burgeoning new field of linguistic anthropology.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the General Education requirement for Culture and Belief or the Core area requirement for Foreign Cultures.

[Anthropology 1805. Language and Political Economy in Globalizing India]

Catalog Number: 8033

Smita Lahiri

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

The English-speaking call center worker has become the poster-child of Indian economic growth. This course examines the place of English in this postcolonial setting, particularly its use alongside other Indian languages in the public realm. Using perspectives from anthropological linguistics, students will analyze contemporary examples of speech and discourse to explore how "liberalization" (market reform) is currently reshaping the politics of language and identity.

Note: Expected to be given in 2011–12. Background in anthropology and familiarity with South Asia required.



Anthropology 1820. Japan in the Ethnographic Gaze: Seminar

Catalog Number: 1267 Enrollment: Limited to 12.

Marie Abe

Half course (spring term). Th., 1–3.

Offers introductory survey of Japan from anthropological perspective. Examines ethnographies, classical, contemporary and interdisciplinary. Special emphasis on ethnographies dealing with music; taking sound as a way of knowing, being in the world, and negotiating social differences, we will develop critical skills to "hear" multiple social relations and histories that make music so intertwined with competing interests and sensibilities in contemporary Japan and beyond.

Note: No prerequisites; open to all concentrators, esp. in Anthropology, East Asian Studies, and Music.

Anthropology 1850. Ethnography as Practice and Genre

Catalog Number: 1686

Mary M. Steedly

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

For sociocultural anthropologists, ethnography is both a way of studying human communities and a way of writing about them. Ethnographic fieldwork raises issues of participation, power, and perspective; cultural relativism; the nature of evidence; and the ethics of engagement. Writing ethnography highlights other issues, such as the politics of representing "others." This course explores these and related issues through close reading and intensive discussion of selected texts.

Note: This course fulfills the undergraduate "Methods" requirement for Social Anthropology.

Anthropology 1875. Moving Pictures: An Anthropology of Images - (New Course)

Catalog Number: 46551

Mary M. Steedly

Half course (spring term). M., W., (F.), at 12.

Most people today live in an environment awash with images in motion. This course explores, from an anthropological point of view, the implications of this media-saturated environment in a range of ethnographic and historical contexts. Issues to be addressed include: technologies and mediation; global and subglobal circuits of transmission; the nature of image-based publics and publicity; media temporalities; visibility, visualization and surveillance.

Note: This course, when taken for a latter grade, meets the Core area requirement for Literature and Arts B.

***Anthropology 1881. China After Mao: Seminar**

Catalog Number: 4642 Enrollment: Limited to 12.

James L. Watson

Half course (fall term). Tu., 1-3. EXAM GROUP: 15, 16

New work on the anthropology of China will be the focus of this course. Special attention will be given to issues of: nationalism, consumption and globalization, impact of the one-child policy, gender inequality, changing family relations, individualism, and private lives.

Anthropology 1886. Sense and Sensibility: William and Henry James in Anthropological Perspective - (New Course)



Catalog Number: 37645

Arthur Kleinman and Steven C. Caton

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

This is the centenary year of William James' death (d. 1910), and it is fitting that we should look back on the work of this great Harvard psychologist and philosopher and his many contributions to American thought. A retrospective on some of the ideas and work of his brother, the great novelist Henry James, is included. To capture what William James was after we use the term "sense," in both the empirical and the value-laden meanings for experience. For Henry James, we will speak of "sensibility." We will attempt to understand their varied projects in their own as well as their contemporaries' terms but also offer a modern anthropological interpretation and appreciation of them. Weekly readings will be supplemented with occasional field trips to relevant sites of interest.

Anthropology 1935. Secularism in Question: Seminar - (New Course)

Catalog Number: 52752

Asad A. Ahmed

Half course (fall term). M., W., 1–2:30.

Secularism, once understood as a normative political arrangement that promoted social peace and multiple religiosities, has recently been critiqued for circumscribing or denying people's abilities to live according to their religious understandings. However, such arguments have also stimulated strident responses that re-instantiate secular values and the enlightenment critique of religion as divisive and irrational. This course will examine recent controversies in France, India, the US and Turkey that have put secularism into question.

[*Anthropology 1986. Art, Anthropology, and Aesthetics]

Catalog Number: 3844 Enrollment: Limited to 15.

Lucien G. Castaing-Taylor

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

In this seminar we shall study the warp and weft of human existence by crisscrossing between the anthropology of art and the art of anthropology. Both affinities and differences between art-making and anthropology will be considered, as well as alternative means of apprehending and expressing aesthetic and social experience cross-culturally.

Note: Expected to be given in 2011–12.

Primarily for Graduates

[*Anthropology 2626. Research Design]

Catalog Number: 9193 Enrollment: Limited to 12.

Theodore C. Bestor

Half course (spring term). W., 4–6.

Seminar focuses on weekly writing assignments leading to complete dissertation research proposals; defining theoretical and ethnographic contexts of research problem; reviewing literature; explaining site selection, methodology, timetable, human subjects protection; preparing budget; identifying grant sources.

Note: Expected to be given in 2011–12. By permission only. Limited to doctoral candidates, with preference given to second and third year students in Anthropology.



[Anthropology 2630. Power, Belief, and Practice: Topics in the Anthropology of Religion]

Catalog Number: 1620 Enrollment: Limited to 15.

Smita Lahiri

Half course (spring term). Th., 1–3.

Brings anthropological perspectives on religion into dialog with interdisciplinary currents of cultural critique and social theory. Highlighted themes vary with each offering.

Note: Expected to be given in 2011–12. The course topic for Spring 2010 is "Religion and Postcoloniality: National, Global, and Local Dynamics."

[*Anthropology 2635. Image/Media/Publics: Seminar]

Catalog Number: 9515 Enrollment: Limited to 15.

Mary M. Steedly

Half course (fall term). Tu., 1–3.

Explores the relations among technologies of image production and circulation, the nature and intensity of the circulating image, and the generation of publics and counter-publics. Questions of scale, mediation, publicity, and mobilization will be considered.

Note: Expected to be given in 2011–12. Open to advanced undergraduates with permission of instructor.

Anthropology 2638. Political Anthropology of Colonial and Postcolonial South Asia - (New Course)

Catalog Number: 67859

Asad A. Ahmed

Half course (fall term). W., 4–6.

South Asia's colonial legacy includes liberal political ideologies and institutions as well as forms of knowledge and governance that are at odds with liberal assumptions. This course explores these trajectories in the postcolonial present.

[Anthropology 2645. Reconfiguring Regimes: Power, Law and Governance]

Catalog Number: 9925

Kimberly Theidon

Half course (spring term). W., 1–3.

Studies changing concepts of law, power and governance within contemporary global politics. Combines theoretical readings with ethnographic inquiries of the state, the legal, the magical, and the just.

Note: Expected to be given in 2011–12.

***Anthropology 2650a. History and Theory of Social Anthropology: Proseminar**

Catalog Number: 1752

Michael Herzfeld

Half course (fall term). Tu., 6–9 p.m. EXAM GROUP: 18

A critical review of the major theoretical approaches in social anthropology.

Note: In conjunction with Anthropology 2840 in 2009-10, required of candidates for the PhD in Social Anthropology. Limited to, and aimed at, doctoral candidates. Not open to undergraduates.



***Anthropology 2650b. History and Theory of Social Anthropology: Proseminar**

Catalog Number: 7971

Mary M. Steedly and Smita Lahiri

Half course (spring term). Tu., 10–1. EXAM GROUP: 12, 13, 14

Continuation of Anthropology 2650a.

Note: Required of candidates for the PhD in Social Anthropology. Not open to undergraduates.

Anthropology 2652. Psychological Anthropology - (New Course)

Catalog Number: 22538

Kimberly Theidon

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

This course explores the historical development of psychological anthropology. We will read classic texts in the field, and then turn to current debates regarding emotions, mental illness, violence and its legacies, perpetrator motivations and victimhood.

[Anthropology 2660. The Anthropology of Knowledge: Seminar]

Catalog Number: 7070

Michael Herzfeld

Half course (fall term). Tu., 1–3.

Comparative exploration of local epistemologies from craft apprentices and skilled manual workers to schoolchildren, journalists and scientists, emphasizing the embodiment, inculcation, and transmission of practical knowledge and the relationships among cosmology, social context, and pragmatic understanding.

Note: Expected to be given in 2011–12.

Anthropology 2674. Legal Anthropology and Modern Governance - (New Course)

Catalog Number: 82966

Asad A. Ahmed

Half course (spring term). W., 4–6.

This course is split into two parts. The first part introduces classic themes and texts in legal anthropology and the second part examines debates on the expansion of law as a means of modern governance.

[Anthropology 2678. The Anthropology of Secularism]

Catalog Number: 1390

Asad A. Ahmed

Half course (fall term). W., 3–5.

Secularism, understood as the normative arrangement for modern societies, has remained immune from anthropological investigation. In addition to examining secularism as an institutional arrangement this course will explore it as a form of subjectivity.

Note: Expected to be given in 2011–12.

Anthropology 2690. Middle East Ethnography: Discourse, Politics, and Culture

Catalog Number: 8056 Enrollment: Limited to 18.

Steven C. Caton

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



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, Yemen, and Iran. Among the theoretical topics to be considered are orientalism, colonialism and post-colonialism, nationalism, self, gender, and tribalism.

Note: Open to undergraduates.

Anthropology 2704. Linguistic Pragmatics and Cultural Analysis in Anthropology

Catalog Number: 4411

Steven C. Caton

Half course (fall term). W., 5–7 p.m.

A theory of linguistic pragmatics (Peirce, Benveniste, etc.) will be developed from a critique of structuralism (Saussure) whose relevance to the analysis of “culture” will be illustrated through ethnographies of language.

Note: Limited to graduate students, who will also be expected to attend all Anthropology 1640 lectures.

***Anthropology 2712. Ethnographies of Food - (New Course)**

Catalog Number: 31444

Theodore C. Bestor

Half course (fall term). Th., 3–5.

We will discuss the “food turn” in anthropology through reading contemporary (and classic) ethnographies of food in contexts of production, distribution, social exchange, gender, and science. *Note:* Undergraduates encouraged to participate. Instructor’s permission required.

Anthropology 2735. The Anthropology of Science: Methods and Theory

Catalog Number: 4310

Duana Fullwiley

Half course (fall term). Tu., 1–3.

An introduction to ethnographies of science in global scientific settings, this course emphasizes practicalities of access, analysis, and representation. It also explores intellectual stakes regarding “the human” shared between anthropology and the life sciences today.

Anthropology 2736. Medical Anthropology of Contemporary Africa

Catalog Number: 1570

Duana Fullwiley

Half course (spring term). F., 2–4.

This course will examine the health effects of larger problems facing Africa today, including military and humanitarian HIV/AIDS interventions, genetic studies and offshore clinical trials, ethnic and state violence, economic crisis, resource extraction and migration.

[Anthropology 2740 (formerly Anthropology 245). Culture, Mental Illness, and the Body]

Catalog Number: 6013

Byron J. Good (Medical School)

Half course (spring term). Tu., 1–3.

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 depression, schizophrenia, and dissociation; madness in non-Euroamerican healing systems; and transnational aspects of psychiatry.

Note: Expected to be given in 2011–12.

[Anthropology 2750. Local Biologies: Perspectives on the Interaction Between Culture and Biology]

Catalog Number: 8267

Arthur Kleinman

Half course (spring term). Th., 1–3.

Reviews the variety of anthropological perspectives on the interactions between culture and biology. Topics include mind-brain-society interaction in pain; cross-cultural studies of menopause; sociosomatics of depression; the new genetics and eugenics; research on stress and trauma.

Note: Expected to be given in 2011–12. Open to advanced undergraduates with permission of instructor.

[Anthropology 2765. Gender in Conflict: Violence, Militarism and War]

Catalog Number: 7015

Kimberly Theidon

Half course (fall term). M., 1–3.

In this seminar we will combine theoretical texts with classic and contemporary ethnographies to explore the anthropological study of ethics and ethical resources as related to debates that have animated the field of medical anthropology.

Note: Expected to be given in 2011–12.

Anthropology 2785. Theories of Subjectivity in Current Anthropology

Catalog Number: 1995

Byron J. Good (Medical School)

Half course (spring term). Tu., 1–3.

Theoretical positions and anthropological debates concerning subjectivity. Freud, Lacan, Butler, Agamben, Zizek, Foucault, and Mbembe read alongside ethnographic texts on violence, suffering, governmentality, and the state.

[Anthropology 2790. Anthropological Interviewing]

Catalog Number: 1305

Byron J. Good (Medical School)

Half course (spring term). Tu., 1–3.

Provides theoretical grounding and practical supervision in ethnographic interviewing. Addresses life history and interview design, developing and managing intimacy, recognizing transference and counter transference, recording and transcribing data, and textual analysis.

Note: Expected to be given in 2011–12.

***Anthropology 2830. Creative Ethnography - (New Course)**

Catalog Number: 98073

Mary M. Steedly



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

A writing-intensive seminar in which students explore various genres and styles of ethnographic representation by sharing work in progress. A range of supplemental readings provide descriptive models and theoretical orientations.

***Anthropology 2835r. Sensory Ethnography I**

Catalog Number: 7583 Enrollment: Limited to 10.

Lucien G. Castaing-Taylor and Ernst Karel

Half course (spring term). M., W., 1–4.

First half of a year-long sequence in which students apply media anthropological theory and conduct ethnography using film, video, sound, and/or still photography.

Note: Limited to graduate students, who must also attend all VES 158ar classes. Emphasis is on pre-production and production in the spring, and on post-production in the fall. Interview with instructor and teaching assistant required for admission.

[*Anthropology 2836r. Sensory Ethnography II: Studio Course]

Catalog Number: 6213 Enrollment: Limited to 10.

Lucien G. Castaing-Taylor and Ernst Karel

Half course (fall term). M., W., 1–4.

Second half of a year-long sequence in which students apply media anthropological theory and conduct ethnography using film, video, sound, still photography, and/or hypermedia.

Note: Expected to be given in 2011–12. Limited to graduate students, who must also attend all VES 158br classes. Emphasis is on pre-production and production in the spring, and on post-production in the fall. Interview with instructor and teaching assistant required for admission.

***Anthropology 2837. Media Archaeology of Place - (New Course)**

Catalog Number: 10136

Lucien G. Castaing-Taylor and Ernst Karel

Half course (fall term). Tu., Th., 2-4; film screenings, W 6-8pm.

Combining media art practice with critical inquiry and ethnographic research, Boston and other sites serve as laboratories for exploring different modes of representing place. Films, maps, sound recordings, and other media artifacts are treated as archaeological objects and are re-interpreted for exhibition.

Note: Admission by interview with instructor.

[Anthropology 2840. Ethnography and Personhood]

Catalog Number: 3560

Michael Herzfeld

Half course (fall term). Tu., 1–3.

Intensive, critical review of major ethnographies, exploring the relationship between society and personhood, examining ethnographic writing and its relation to other genres (including biography); and tracing anthropological theory through changes in descriptive and analytic practice.

Note: Expected to be given in 2011–12. Given in alternate years. Required in 2009-10 of all first year Social Anthropology doctoral students.



***Anthropology 2850r. Practicum in Foreign-Language Ethnography**

Catalog Number: 9856

Michael Herzfeld

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

Readings in ethnographic and related theoretical works written in a selected foreign language; discussion, class presentations, and final papers will be in that language also.

Note: Offered when demand and availability permit. Primarily for doctoral students.

[Anthropology 2855. Deep China: What Medical Anthropology and Psychiatry Contribute to the Study of China Today]

Catalog Number: 1679

Arthur Kleinman

Half course (fall term). Th., 1–3.

What do accounts of depression, suicide, substance abuse, sexually transmitted diseases, SARS, HIV/AIDS, starvation and the personal and family trauma of political violence teach us about China and the Chinese over the last few decades?

Note: Expected to be given in 2011–12. Open to undergraduates.

[*Anthropology 2856. Biography, the Novel, Psychotherapy and Ethnography: Deep Ways of Knowing the Person in the Moral Context]

Catalog Number: 8459

Arthur Kleinman

Half course (fall term). Th., 2–4.

Compares deep ways of knowing the person in his/her cultural, political, economic and, most especially, moral context. Reads strong examples from each field to learn about individual and collective experience under uncertainty and danger.

Note: Expected to be given in 2011–12. Open to graduate students and advanced undergraduates.

Anthropology 2870. Transgressive Texts: Contemporary Latin American Ethnography

Catalog Number: 3347

Kimberly Theidon

Half course (fall term). W., 1–3.

A reading seminar of ethnographic accounts of globalization, identity formation, and political action in Latin America. We explore cultural forms and materials conditions, locating the politics of representation within fields of power and conflict.

Anthropology 2876 (formerly Anthropology 276). New Ethnographies in the Anthropology of Social Experience

Catalog Number: 5029

Arthur Kleinman

Half course (spring term). Th., 2–4.

New ethnographies of social experience and subjectivity are remaking anthropology. Students critically examine studies of illness, violence, and cultural responses to other human problems. Emphasis is on the methodology, writing, and ethics of such ethnographies.

Note: Open to advanced undergraduates.



[Anthropology 2980. “Culture”]

Catalog Number: 1114

Mary M. Steedly

Half course (spring term). W., 3–6.

“Culture” is one of anthropology’s key concepts, but there has never been agreement as to the term’s meaning. We tour the work of culture’s key theorists, with an emphasis on American anthropological perspectives. Is culture still a useful concept in anthropological analysis?

Note: Expected to be given in 2011–12. For first-year graduate students, or by permission of instructor. In 2009-10 (only), counts as second part of Social Anthropology Proseminar course requirement.

Cross-listed Courses

[African and African American Studies 97. Sophomore Tutorial: Race and Humanism](#)

[African and African American Studies 106. Remembering Slavery and the Slave Trade - \(New Course\)](#)

[African and African American Studies 168. Genetics, Society and Ethics: Social Engagement Course - \(New Course\)](#)

[African and African American Studies 196. Field Research Methods in the Medical Social Sciences: Writing, Policy and Deliverables]

[African and African American Studies 199. Delimiting Health Disparities in the African Diaspora: A Laboratory for Social Engagement]

[*Freshman Seminar 45g. Human, Animals, and Cyborgs](#)

[History 1702 \(formerly History 1923\). Violence, Substances and Mental Illness: African Perspectives: Conference Course](#)

[History of Science 249. Caregiving: Historical and Anthropological Perspectives: Seminar]

[*Regional Studies — East Asia 310. Thesis Development](#)

[Social Analysis 70. Food and Culture]

[Societies of the World 25 \(formerly Anthropology 1825\). Health, Culture and Community: Case Studies in Global Health](#)

[Societies of the World 33 (formerly Foreign Cultures 84). Tokyo]

[*Visual and Environmental Studies 158br (formerly *Visual and Environmental Studies 158r). Living Documentary: Studio Course]

[*Visual and Environmental Studies 189m. Reading Ethnographic Film: The Construction of Visual Knowledge]

Graduate Courses of Reading and Research

***Anthropology 3000. Reading Course**

Catalog Number: 3454

Asad A. Ahmed 5567, Ofer Bar-Yosef 1887 (on leave fall term), Theodore C. Bestor 2292 (on leave spring term), David L. Carrasco 4213, Lucien G. Castaing-Taylor 4584, Steven C. Caton 2307, William L. Fash 1512, Rowan K. Flad 5059, Duana Fullwiley 5767, Byron J. Good (Medical School) 7648, Michael Herzfeld 3122, Arthur Kleinman 7473, Smita Lahiri 4465 (on leave fall term), C. C. Lamberg-Karlovsky 2387 (on leave fall term), Richard H. Meadow 1572, Sally F. Moore 7225, Jeffrey Quilter 5383, Mary M. Steedly 2783, Ajantha Subramanian 4618



(on leave 2010-11), Kimberly Theidon 4973, Jason A. Ur 5307 (on leave spring term), Gary Urton 4469, James L. Watson 2172, and Marc U. Zender 5217

Special reading in selected topics under the direction of members of the Department.

Note: Consult the appropriate member of the Department.

***Anthropology 3001. Reading for General Examination**

Catalog Number: 5689

Members of the Department

Individual reading in preparation for the General Examination for the PhD degree.

Note: Restricted to candidates for the PhD degree and ordinarily to those who have completed at least one year in residence.

***Anthropology 3100. Old World Archaeology (Europe, Asia, and Africa)**

Catalog Number: 3463

Ofer Bar-Yosef 1887 (on leave fall term), C. C. Lamberg-Karlovsky 2387 (on leave fall term), and Richard H. Meadow 1572

***Anthropology 3111. Asiatic Archaeology and Ethnography**

Catalog Number: 5398

Rowan K. Flad 5059, C. C. Lamberg-Karlovsky 2387 (on leave fall term), and Lawrence E. Stager 1468 (on leave fall term)

***Anthropology 3120. Scientific Archaeology**

Catalog Number: 0284

Richard H. Meadow 1572 and Noreen Tuross 4845 (on leave spring term) (fall term only)

***Anthropology 3130. Archaeology and Ethnography of the Near and Middle East**

Catalog Number: 3787

Ofer Bar-Yosef 1887 (on leave fall term) and C. C. Lamberg-Karlovsky 2387 (on leave fall term)

***Anthropology 3140. Methods and Theory in Archaeology**

Catalog Number: 5440

Members of the Department

***Anthropology 3300. Supervised Field Work in Anthropology**

Catalog Number: 5683

Members of the Department

General instruction in field methods and practice in the various divisions of anthropology, including archaeology, ethnography, and physical anthropology. Instructional personnel and location of course vary with the research program of the staff. Lectures, conferences, field and laboratory work.

Note: May be taken by graduate students for academic credit, but since it is tuition-free, does not count for residence credit leading to reduced tuition. Open to students with adequate previous training in the subject.



***Anthropology 3400. Reading and Research**

Catalog Number: 6699

Members of the Department

Note: Consult the appropriate member of the Department.

***Anthropology 3500. Direction of Doctoral Dissertations**

Catalog Number: 1864

Members of the Department

Note: Consult the appropriate member of the Department.

***Anthropology 3502. Thesis Writing Workshop (China dissertations)**

Catalog Number: 7300

James L. Watson 2172 and members of the Department

Half course (spring term). .

Applied Mathematics

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the School of Engineering and Applied Sciences Offering Instruction in Applied Mathematics

Donald G. M. Anderson, Gordon McKay Professor of Applied Mathematics

Jeremy Bloxham, Mallinckrodt Professor of Geophysics and Professor of Computational Science, Dean of Science

William H. Bossert, David B. Arnold, Jr. Professor of Science

Michael P. Brenner, Glover Professor of Applied Mathematics and Applied Physics, Harvard College Professor, Area Dean for Applied Mathematics (*Director of Undergraduate Studies*)

Roger W. Brockett, An Wang Professor of Electrical Engineering and Computer Science

Hudong Chen, Visiting Professor of Applied Mathematics

Yiling Chen, Assistant Professor of Computer Science

Philippe Cluzel, Professor of Molecular and Cellular Biology and Gordon McKay Professor of Applied Physics

Marie D. Dahleh, Senior Lecturer on Engineering Sciences

John W. Hutchinson, Abbott and James Lawrence Professor of Engineering and Gordon McKay Professor of Applied Mechanics

Efthimios Kaxiras, John Hasbrouck Van Vleck Professor of Pure and Applied Physics

Navin Khaneja, Gordon McKay Professor of Electrical Engineering (*on leave 2010-11*)

Zhiming Kuang, Associate Professor of Earth and Planetary Sciences



H. T. Kung, William H. Gates Professor of Computer Science and Electrical Engineering
 L. Mahadevan, Lola England de Valpine Professor of Applied Mathematics and of Organismic and Evolutionary Biology (*on leave 2010-11*)
 Cherry Murray, John A. and Elizabeth S. Armstrong Professor of Engineering and Applied Sciences and Professor of Physics, Dean of Harvard School of Engineering and Applied Sciences
 Pavlos Protopapas, Lecturer on Applied Mathematics
 James R. Rice, Mallinckrodt Professor of Engineering Sciences and Geophysics
 Tobias M. Schneider, Lecturer on Applied Mathematics
 Zhigang Suo, Allen E. and Marilyn M. Puckett Professor of Mechanics and Materials
 Vahid Tarokh, Perkins Professor of Applied Mathematics and Vinton Hayes Senior Research Fellow of Electrical Engineering
 Eli Tziperman, Pamela and Vasco McCoy, Jr. Professor of Oceanography and Applied Physics
 Salil P. Vadhan, Vicky Joseph Professor of Computer Science and Applied Mathematics
 Leslie G. Valiant, T. Jefferson Coolidge Professor of Computer Science and Applied Mathematics

Other Faculty Offering Instruction in Applied Mathematics

Venkatesh N. Murthy, Professor of Molecular and Cellular Biology
 Sharad Ramanathan, Assistant Professor of Molecular and Cellular Biology

The School of Engineering and Applied Sciences (www.seas.harvard.edu) offers undergraduate and graduate courses in Applied Mathematics, Applied Physics, Computer Science, Earth and Planetary Sciences, and Engineering Sciences. Engineering and Applied Sciences faculty also offer several courses in the section entitled Freshman Seminars, Extra-Departmental Courses, and House Seminars.

For information concerning the concentration in Applied Mathematics, please consult the Director of Undergraduate Studies or the Office of Student Affairs, School of Engineering and Applied Sciences, Pierce Hall 110. Many additional courses of interest to applied mathematicians can be found in the Computer Science, Engineering Sciences, Mathematics, and Statistics sections of the catalog.

Primarily for Undergraduates

[Applied Mathematics 21a. Mathematical Methods in the Sciences](#)

Catalog Number: 6395

Zhigang Suo

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. Applications in electrical and mechanical engineering.

Note: May not be taken for credit by students who have passed Mathematics 21a. This course, when taken for a letter grade, meets the General Education requirement for Empirical and



Mathematical Reasoning or the Core area requirement for Quantitative Reasoning.

Prerequisite: Mathematics 1b or equivalent.

Applied Mathematics 21b. Mathematical Methods in the Sciences

Catalog Number: 5074

Vahid Tarokh

Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

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. Applications in electrical and mechanical engineering.

Note: May not be taken for credit by students who have passed Mathematics 21b. This course, when taken for a letter grade, meets the General Education requirement for Empirical and Mathematical Reasoning or the Core area requirement for Quantitative Reasoning.

Prerequisite: Applied Mathematics 21a or equivalent.

Applied Mathematics 50 (formerly Applied Mathematics 50hf). Introduction to Applied Mathematics

Catalog Number: 9344

Michael P. Brenner and Margo S. Levine

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

Introduction to the problems and issues of applied mathematics. This will be accomplished both through the reading of papers that use mathematical arguments to have substantial impact on some field of human activity, as well as guest lecturers from around Harvard to discuss how mathematics is used in their field.

***Applied Mathematics 91r. Supervised Reading and Research**

Catalog Number: 7607

Michael P. Brenner and Marie D. Dahleh

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

An individual project of guided reading and research culminating in a substantial paper or other piece of work which can be meaningfully evaluated to assign a letter grade; may not be taken on a PA/FL basis. Students engaged in preparation of a senior thesis ordinarily should take Applied Mathematics 99r instead.

Note: May be taken as a half course in either term; normally may not be taken for more than two terms. Applications may be obtained at Pierce Hall 110. Students should consult their advisers and concentration literature for further information and guidance. Applications must be signed by the student, by the faculty member supervising the project (who will recommend the grade), and by the Director of Undergraduate Studies, who will sign the student's study card once the project and its method of evaluation have been approved.

***Applied Mathematics 99r. Thesis Research**

Catalog Number: 4648

Michael P. Brenner and Marie D. Dahleh

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

Provides an opportunity for students to engage in preparatory research and the writing of a senior



thesis. Graded on a SAT/UNS basis as recommended by the thesis supervisor. The thesis is evaluated by the supervisor and by two additional readers.

Note: May be taken as a half course in either term; normally may not be taken for more than two terms. The Director of Undergraduate Studies will sign the student's study card once a faculty member has agreed in writing to supervise preparation of the thesis, and reaffirmed this agreement if the course is to be repeated. Applications may be obtained at Pierce Hall 110. Students should consult their advisers and concentration literature for further information and guidance.

For Undergraduates and Graduates

Applied Mathematics 101. Statistical Inference for Scientists and Engineers

Catalog Number: 3350

Miranda C. Holmes

Half course (fall term). M., W., 2:30–4. EXAM GROUP: 7, 8

Introductory statistical methods for students in the applied sciences and engineering. Random variables and probability distributions; the concept of random sampling, including random samples, statistics, and sampling distributions; the Central Limit Theorem and its role in statistical inference; parameter estimation, including point estimation and maximum likelihood methods; confidence intervals; hypothesis testing; simple linear regression; and multiple linear regression. Introduction to more advanced techniques as time permits.

Note: May not be taken in addition to Engineering Sciences 101. This course, when taken for a letter grade, meets the General Education requirement for Empirical and Mathematical Reasoning or the Core area requirement for Quantitative Reasoning.

Prerequisite: Applied Mathematics 21b or Mathematics 21b or equivalent.

Applied Mathematics 105a. Complex and Fourier Analysis

Catalog Number: 7732

Efthimios Kaxiras

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

Complex Analysis: complex numbers, functions, mapping, differentiation, integration, branch cuts, series expansions, residue theory. Fourier Analysis: Fourier series, Fourier and Laplace transforms, applications to differential equations and data analysis.

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

Eli Tziperman

Half course (spring term). M., W., F., at 11. EXAM GROUP: 4

Ordinary differential equations: power series solutions; special functions; eigenfunction expansions. Review of vector calculus. Elementary partial differential equations: separation of variables and series solutions; comparison of elliptic, parabolic and hyperbolic systems. Introduction to nonlinear dynamical systems and to numerical methods.

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

Catalog Number: 3871

Salil P. Vadhan

Half course (fall term). M., W., 2:30–4. EXAM GROUP: 7, 8

Introduction to abstract algebra and its applications. Sets, subsets, and partitions; mappings, operations, and equivalence relations; groups, rings, and fields, polynomials, encryption, computer coding, application of modular arithmetic, combinatorial designs, lattices, application of trellis representation of lattices, fast algorithms.

Prerequisite: Applied Mathematics 21a and 21b, or Mathematics 21a and 21b

Applied Mathematics 107. Graph Theory and Combinatorics

Catalog Number: 6411

Leslie G. Valiant

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

Topics in combinatorial mathematics that find frequent application in computer science, engineering, and general applied mathematics. Specific topics taken from graph theory, enumeration techniques, optimization theory, combinatorial algorithms, and discrete probability.

Applied Mathematics 111. Introduction to Scientific Computing

Catalog Number: 7000

Zhiming Kuang

Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

Many complex physical problems defy simple analytical solutions or even accurate analytical approximations. Scientific computing can address certain of these problems successfully, providing unique insight. This course introduces some of the widely used techniques in scientific computing through examples chosen from physics, chemistry, and biology. The purpose of the course is to introduce methods that are useful in applications and research and to give the students hands-on experience with these methods.

Prerequisite: Applied Mathematics 21a and 21b, or Mathematics 21a and 21b, or permission of instructor.

Applied Mathematics 115. Mathematical Modeling

Catalog Number: 1768

William H. Bossert (fall term) and John W. Hutchinson (spring term)

Half course (fall term; repeated spring term). Fall: M., W., 1–2:30; Spring: Tu., Th., 11:30–1. EXAM GROUP: Fall: 6, 7; Spring: 13, 14

Abstracting the essential components and mechanisms from a natural system to produce a mathematical model, which can be analyzed with a variety of formal mathematical methods, is perhaps the most important, but least understood, task in applied mathematics. This course approaches a number of problems without the prejudice of trying to apply a particular method of solution. Topics drawn from mechanics, biology, economics and the behavioral sciences.

Prerequisite: Mathematics at least at the level of Applied Mathematics 21a, b. Additional skills



in analysis, algebra, probability, statistics and computer programming will increase the value of the course to students.

Applied Mathematics 120. Applicable Linear Algebra

Catalog Number: 4378

H. T. Kung

Half course (spring 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.

Prerequisite: Applied Mathematics 21b, or Mathematics 21b, or equivalent.

Applied Mathematics 121. Introduction to Optimization: Models and Methods

Catalog Number: 3187 Enrollment: Limited to 60.

Yiling Chen

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

Introduction to basic mathematical ideas and computational methods for solving deterministic and stochastic optimization problems. Topics covered: linear programming, integer programming, branch-and-bound, branch-and-cut, Markov chains, Markov decision processes. Emphasis on modeling. Examples from business, society, engineering, sports, e-commerce. Exercises in AMPL, complemented by Maple or Matlab.

Note: May not be taken in addition to Engineering Sciences 102.

Prerequisite: Applied Mathematics 21b or Mathematics 21b (linear algebra) and some knowledge of probability and statistics at the level of Statistics 110 or Applied Mathematics 101 or permission of instructor.

Applied Mathematics 147. Nonlinear Dynamical Systems

Catalog Number: 7708

Philippe Cluzel

Half course (fall term). Tu., Th., 11:30–1.

An introduction to nonlinear dynamical phenomena, covering the behavior of systems described by ordinary differential equations. Topics include: stability; bifurcations; chaos; routes to chaos and universality; approximations by maps; strange attractors; fractals. Techniques for analyzing nonlinear systems are introduced with applications to physical, chemical, and biological systems such as forced oscillators, chaotic reactions, and population dynamics.

Prerequisite: Mathematics 21a and 21b, or Applied Mathematics 21a and 21b.

Cross-listed Courses

[Earth and Planetary Sciences 100. The Missing Matlab Course: An Introduction to Programming and Data Analysis]

MCB 111. Mathematics in Biology

MCB 198. Advanced Mathematical Techniques for Modern Biology - (New Course)

Primarily for Graduates



Applied Mathematics 201. Physical Mathematics I

Catalog Number: 3241

Michael P. Brenner

Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

Introduction to methods for developing accurate approximate solutions for problems in the sciences that cannot be solved exactly, and integration with numerical methods and solutions. Topics include: approximate solution of integrals, algebraic equations, nonlinear ordinary differential equations, and partial differential equations. Introduction to “sophisticated” uses of MATLAB.

Prerequisite: Applied Mathematics 105a, b or equivalent.

[Applied Mathematics 202. Physical Mathematics II]

Catalog Number: 6559

Instructor to be determined

Half course (spring term). M., W., F., at 9.

Theory and techniques for finding exact and approximate analytical solutions of partial differential equations with numerical evaluation: eigenfunction expansions, Green functions, variational calculus, transform techniques, perturbation methods, characteristics, line asymptotic methods and selected nonlinear PDE's.

Note: Expected to be given in 2011–12.

Prerequisite: Applied Mathematics 105a and 105b, or equivalent.

Applied Mathematics 205. Practical Scientific Computing

Catalog Number: 1370

Mauricio Santillana

Half course (fall term). M., W., F., at 10. EXAM GROUP: 3

Computational methods at a sophisticated analytic level. Practical exercises emphasized. A wide range of topics from linear algebra to Fourier analysis will be covered.

Prerequisite: Mathematics at the level of Applied Mathematics 105b. A previous course in computing is not required.

Applied Mathematics 205b. Advanced Scientific Computing: Stochastic Optimization Methods - (New Course)

Catalog Number: 78757

Pavlos Protopapas and Efthimios Kaxiras

Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

Develops skills for computational research with focus on stochastic approaches, emphasizing implementation and examples. Stochastic methods make it feasible to tackle very diverse problems when the solution space is too large to explore systematically, or when microscopic rules are known, but not the macroscopic behavior of a complex system. Methods will be illustrated with examples from a wide variety of fields, ranging from simulating the immune system to strategies for investing in financial markets.

Prerequisite: Basic knowledge of a computer programming language (such as C or/and Python).

Applied Mathematics 206. Advanced Applied Algebra

Catalog Number: 6018



Salil P. Vadhan

Half course (fall term). M., W., 2:30–4. EXAM GROUP: 7, 8

Sets, subsets, and partitions; mappings, operations, and equivalence relations; groups, rings, and fields, polynomials, encryption, computer coding, application of modular arithmetic, combinatorial designs, lattices, application of trellis representation of lattices, fast algorithms; selected readings.

Note: Meets with Applied Mathematics 106. Students enrolled in Applied Mathematics 206 will be assigned additional readings.

Applied Mathematics 210. Elementary Functional Analysis

Catalog Number: 2781

Donald G. M. Anderson

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

An introduction to functional analysis and its applications: metric, Banach and Hilbert spaces; linear operators, spectral theory; differentiation and integration.

Note: Expected to be omitted in 2011–12. 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 2011–12.

Prerequisite: Applied Mathematics 105a and 105b; Applied Mathematics 111 or 120 would be helpful, but not required.

***Applied Mathematics 215. Fundamentals of Biological Signal Processing - (New Course)**

Catalog Number: 23661 Enrollment: Limited to 20.

Sharad Ramanathan and Venkatesh N. Murthy

Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

The course will introduce Bayesian analysis, maximum entropy principles, hidden markov models and pattern theory. These concepts will be used to understand information processing in biology. The relevant biological background will be covered in depth.

Prerequisite: A strong background in Calculus, Linear Algebra, Fourier Analysis, complex analysis at the advanced undergraduate level and an introductory knowledge of probability theory is required. Knowledge of Statistical Mechanics and comfort with programming will be useful.

Applied Mathematics 272r. Topics in Computational Science - (New Course)

Catalog Number: 27235

Hudong Chen

Half course (spring term). W., 3–5, M., 7–9 p.m. EXAM GROUP: 8, 9



Systematic introduction to kinetic methods for studying fluids, based on the lattice Boltzmann equation. Emphasizes theory, including discrete dynamics and symmetry, as well as hands-on programming of basic algorithms for fluid flow simulations, paying attention to understanding of the theoretical basis and connection to real fluid physics. The course lays the foundation for further research on the method extensions, particularly in complex fluids and micro/nano-fluidics and presents specific applications in various science and engineering problems.

Prerequisite: Knowledge of basic classical physics, fluid dynamics, and numerical methods are desirable.

[Applied Mathematics 298r. Special Topics in Applied Mathematics: Self Assembly]

Catalog Number: 3882

Michael P. Brenner

Half course (spring term). M., W., 2:30–4.

This course will study the theoretical and mathematical basis for self assembly, focusing on what is required to make engineering-based self assembly a reality. Three parts: foundations, engineering solutions, and biological assembly.

Note: Expected to be given in 2011–12.

Prerequisite: Undergraduate statistical mechanics or permission of the instructor.

Applied Mathematics 299r. Special Topics in Applied Mathematics

Catalog Number: 5798

Michael P. Brenner

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

Supervision of experimental or theoretical research on acceptable applied mathematics problems and supervision of reading on topics not covered by regular courses of instruction.

Note: Open to graduate students and AB/SM candidates only. Students must arrange such work with a member of the School of Engineering and Applied Sciences. This course is graded and is ordinarily taken with the approval of the Committee on Higher Degrees. Applicants must file a project sheet before study cards are filed. Project sheets may be obtained from the Academic Office, Pierce Hall 110.

Cross-listed Courses

***Computer Science 365. SEAS Teaching Practicum**

Graduate Courses of Reading and Research

Reading courses are odd-numbered; research courses are even-numbered.

***Applied Mathematics 311,312. Numerical Mathematics: Analysis, Synthesis and Computation**

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 317,318. Special Topics in Physical Mathematics**

Catalog Number: 9160,2166
Michael P. Brenner 4101

***Applied Mathematics 319,320. Topics in Macroscopic Physics and Quantitative Biology**

Catalog Number: 2084,4567
L. Mahadevan 4758 (on leave 2010-11)

***Applied Mathematics 321,322. Biological Applications of Mathematics and Automatic Computers**

Catalog Number: 7615,4243
William H. Bossert 1049

***Applied Mathematics 331,332. Theoretical Mechanics in the Earth and Engineering Sciences**

Catalog Number: 0112,0251
James R. Rice 7270

***Applied Mathematics 341,342. Applied Probability and Statistical Inference, Classical and Quantum Information Theory**

Catalog Number: 0970,6033
Navin Khaneja 4192 (on leave 2010-11)

Applied Physics

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the School of Engineering and Applied Sciences Offering Instruction in Applied Physics

Joanna Aizenberg, Amy Smith Berylson Professor of Materials Science
Michael J. Aziz, Gene and Tracy Sykes Professor of Materials and Energy Technologies
David C. Bell, Lecturer on Applied Physics
Michael P. Brenner, Glover Professor of Applied Mathematics and Applied Physics, Harvard College Professor, Area Dean for Applied Mathematics
Federico Capasso, Robert L. Wallace Professor of Applied Physics and Vinton Hayes Senior



Research Fellow in Electrical Engineering

David R. Clarke, Gordon McKay Professor of Applied Physics

Kenneth B. Crozier, John L. Loeb Associate Professor of the Natural Sciences

Cynthia M. Friend, Theodore William Richards Professor of Chemistry and Professor of Materials Science

Jene A. Golovchenko, Rumford Professor of Physics and Gordon McKay Professor of Applied Physics

Fawwaz Habbal, Senior Lecturer on Applied Physics

Donhee Ham, Gordon McKay Professor of Electrical Engineering and Applied Physics

Lene V. Hau, Mallinckrodt Professor of Physics and of Applied Physics

Evelyn Hu, Gordon McKay Professor of Applied Physics and of Electrical Engineering, Area Dean for Electrical Engineering

Efthimios Kaxiras, John Hasbrouck Van Vleck Professor of Pure and Applied Physics

Zhiming Kuang, Associate Professor of Earth and Planetary Sciences

Marko Loncar, Associate Professor of Electrical Engineering

Vinothan N. Manoharan, Associate Professor of Chemical Engineering and of Physics

Eric Mazur, Balkanski Professor of Physics and Applied Physics, Area Dean for Applied Physics

Cherry Murray, John A. and Elizabeth S. Armstrong Professor of Engineering and Applied Sciences and Professor of Physics, Dean of Harvard School of Engineering and Applied Sciences

Venkatesh Narayanamurti, Benjamin Peirce Professor of Technology and Public Policy

Daniel Joseph Needleman, Assistant Professor of Applied Physics

David R. Nelson, Arthur K. Soloman Professor of Biophysics and Professor of Physics and Applied Physics

Peter S. Pershan, Frank B. Baird, Jr. Professor of Science

Shriram Ramanathan, Associate Professor of Materials Science

James R. Rice, Mallinckrodt Professor of Engineering Sciences and Geophysics

Frans A. Spaepen, John C. and Helen F. Franklin Professor of Applied Physics (*on leave spring term*)

Patrick Thaddeus, Robert Wheeler Willson Professor of Applied Astronomy

Eli Tziperman, Pamela and Vasco McCoy, Jr. Professor of Oceanography and Applied Physics

Joost J. Vlassak, Gordon McKay Professor of Materials Engineering, Area Dean for Materials Science and Mechanical Engineering

David A. Weitz, Mallinckrodt Professor of Physics and of Applied Physics

Robert M. Westervelt, Mallinckrodt Professor of Applied Physics and of Physics (*on leave fall term*)

Tai T. Wu, Gordon McKay Professor of Applied Physics and Professor of Physics

Other Faculty Offering Instruction in Applied Physics

Eugene A. Demler, Professor of Physics

Charles M. Lieber, Mark Hyman, Jr. Professor of Chemistry

Paul C. Martin, John Hasbrouck Van Vleck Professor of Pure and Applied Physics, Emeritus

Sharad Ramanathan, Assistant Professor of Molecular and Cellular Biology

Amir Yacoby, Professor of Physics (*on leave 2010-11*)

The School of Engineering and Applied Sciences (www.seas.harvard.edu) offers undergraduate



and graduate courses in Applied Mathematics, Applied Physics, Computer Science, Earth and Planetary Sciences, and Engineering Sciences. Engineering and Applied Sciences faculty also offer several courses in the section entitled Freshman Seminars, Extra-Departmental Courses, and House Seminars.

For Undergraduates and Graduates

Applied Physics 195. Introduction to Solid State Physics

Catalog Number: 1842

Federico Capasso

Half course (fall term). W., F., 1–2:30.

Crystals. Free electron Fermi gas. Band structure. Metals, insulators, semiconductors. Phonons; thermal properties. Electron transport. PN junctions. Heterojunctions. Low dimensional systems. Transistors. Optical properties of solids. Semiconductor lasers; detectors; solar cells. Magnetism. Spintronics.

Note: Applied Physics 195 is a first course in solid-state physics for undergraduate and graduate students with knowledge of elementary quantum mechanics. Students who have not taken a formal solid state physics course are strongly advised to take Applied Physics 195 before Applied Physics 295.

Cross-Listed Courses

Applied Mathematics 147. Nonlinear Dynamical Systems

[Earth and Planetary Sciences 131. Introduction to Physical Oceanography and Climate]

Physics 129. Energy Science

Primarily for Graduates

Additional courses of interest to graduate students in Applied Physics include: Applied Mathematics 203, Engineering Sciences 220, 225r, 240, 241, 242r, 246, 247, and 274.

Applied Physics 216. Modern Optics and Quantum Electronics

Catalog Number: 4691

Lene V. Hau

Half course (fall term). Tu., Th., 10–11:30.

We cover the fundamental physics of light and of light-matter interactions. The field has great importance in many active research areas. Topics include quantization of the electromagnetic field, Fourier optics, lasers, optics with nanostructures, and optics in biology.

Prerequisite: A class in electromagnetism/electrodynamics.

[Applied Physics 217. Applications of Modern Optics]

Catalog Number: 6965

Instructor to be determined

Half course (fall term). Tu., Th., 10–11:30.

Optical systems and lasers have recently revolutionized both technology and basic research. We



cover the fundamental physics of light-matter interactions, Fourier optics, quantization (photons), nano-optics, laser cooling, optics in biology: single-molecule studies, Raman spectroscopy.

Note: Expected to be given in 2011–12.

Prerequisite: An undergraduate course in electromagnetism and quantum mechanics.

Applied Physics 218. Electrical, Optical, and Magnetic Properties of Materials

Catalog Number: 9804

Shriram Ramanathan

Half course (spring term). M., W., 3:30–5. EXAM GROUP: 8, 9

Classical and quantum description of electrical, optical and magnetic properties, and their fundamental physical origins; experimental techniques. Properties of compositionally complex materials such as ceramics. Structure-property relations. Applications in semiconductor, information storage, and energy industries.

Prerequisite: Introductory solid-state physics or equivalent course.

Applied Physics 225. Introduction to Soft Matter

Catalog Number: 5298

Ian D. Morrison

Half course (fall term). M., W., 2:30–4. EXAM GROUP: 7, 8

Introduction to soft condensed matter, or “complex fluids,” including polymers, colloids, liquid crystals, and biological structures. Emphasis on physical principles that govern bulk behavior. Students will understand the concepts, experimental techniques, and open questions.

Prerequisite: Knowledge of thermodynamics with basic statistical mechanics and some familiarity with Fourier transforms and differential equations.

[Applied Physics 235. Chemistry in Materials Science and Engineering]

Catalog Number: 5081

Instructor to be determined

Half course (spring term). W., F., 1–2:30.

Select topics in materials chemistry, focusing on chemical bonds, crystal chemistry, organic and polymeric materials, hybrid materials, surfaces and interfaces, self-assembly, electrochemistry, biomaterials, and bio-inspired materials synthesis.

Note: Expected to be given in 2011–12.

Prerequisite: Introductory thermodynamics, chemistry or equivalent.

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, and grain boundaries.

Note: Intended for students in applied mechanics, materials science, condensed matter physics, and chemistry.



[Applied Physics 284. Statistical Thermodynamics]

Catalog Number: 2257

Amir Yacoby

Half course (fall term). Tu., Th., 1–2:30.

Basic principles of statistical mechanics and thermodynamics, with applications including: equilibrium properties of gases; phase diagrams; phase transitions and critical points; Bose-Einstein condensation; properties of hard-sphere bosons.

Note: Expected to be given in 2011–12. Students may wish to take Physics 262 when this course is bracketed.

Prerequisite: Ordinarily, Physics 143a, b, and Physics 181 or Engineering Sciences 181.

Applied Physics 291. Electron Microscopy Laboratory

Catalog Number: 1761 Enrollment: Limited to 15.

David C. Bell

Half course (spring term). M., 2-3:30, and a three hour laboratory session to be arranged.

EXAM GROUP: 7, 8

Lectures and laboratory instruction on transmission electron microscopy(TEM) and Cs corrected, aberration-correction microscopy and microanalysis. Lab classes include; diffraction, dark field imaging, X-ray spectroscopy, electron energy-loss spectroscopy, atomic imaging, materials sample preparation, polymers, and biological samples.

Note: Primarily for graduate students planning to use TEM for their research.

Applied Physics 292. Kinetics of Condensed Phase Processes

Catalog Number: 3733

Michael J. Aziz

Half course (spring term). W., F., 10–12.

Kinetic principles underlying atomic motions, transformations, and other atomic transport processes in condensed phases. Application to atomic diffusion, continuous phase transformations, nucleation, growth, coarsening, and other kinetic phenomena in bulk, thin film, and surface states.

Prerequisite: An undergraduate-level course in thermodynamics.

[Applied Physics 293. Deformation of Solids]

Catalog Number: 6796

Instructor to be determined

Half course (spring term). Tu., Th., 8:30–10.

Phenomenology and theory of the mechanisms by which solids can deform, including elastic deformation, microscopic dislocation glide and the kinetics of slip, dislocation and diffusional creep; deformation mechanism maps; fracture.

Note: Expected to be given in 2011–12.

Prerequisite: Knowledge of thermodynamics and elements of crystal structure.

***Applied Physics 294hfr. Materials Science Seminar**

Catalog Number: 4924

Michael J. Aziz, David R. Clarke, and Frans A. Spaepen

Half course (throughout the year). Fall: Th., at 12; Spring: Th., at 1. EXAM GROUP: Fall: 14;



Spring: 15

Special topics in materials science.

Prerequisite: See instructor.

Applied Physics 295a. Introduction to Quantum Theory of Solids

Catalog Number: 6937

Evelyn Hu

Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

Properties of solids, electrical, optical, thermal, magnetic, mechanical, are treated based on an atomic scale picture and using the single electron approximation. Metals, semiconductors, and insulators are covered, including special topics such as superconductivity.

Prerequisite: Applied Physics 195 or equivalent, and one full quantum mechanics graduate level course similar to Physics 251a. Physics 251b may be taken concurrently.

Applied Physics 295b. Quantum Theory of Solids

Catalog Number: 3610

Eugene A. Demler

Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

Theoretical description of solids focusing on the effects of interactions between electrons, including dielectric response, magnetism, and superconductivity. Also, subjects from the physics of strongly correlated systems, such as quantum antiferromagnetism and high temperature superconductors.

Prerequisite: Applied Physics 295a, Physics 251a, and 251b, or permission of instructor.

Applied Physics 298r. Interdisciplinary Chemistry, Engineering and Physics: Seminar

Catalog Number: 7500

Robert M. Westervelt and members of the Faculty

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

This course will present a series of tutorial lectures by faculty associated with our Nanoscale Science and Engineering Center, supported by the NSF. These talks are aimed to give the audience an overview of nanoscience and technology. The Research Areas of our Center are: Tools for Integrated Nanobiology - Microfluidics and Lab on a Chip systems. Nanoscale Building Blocks - Nanoparticles, Nanowires, and Graphene Imaging at the Nanoscale - Electrons and Photons in Nanostructures.

Applied Physics 299r. Special Topics in Applied Physics

Catalog Number: 2103

Michael J. Aziz

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

Supervision of experimental or theoretical research on acceptable applied physics problems and supervision of reading on topics not covered by regular courses of instruction.

Note: Open to graduate students and AB/SM candidates only. Students must arrange such work with a member of the School of Engineering and Applied Sciences. This course is graded and is ordinarily taken with the approval of the Committee on Higher Degrees. Applicants must file a project sheet before study cards are filed. Project sheets may be obtained from the Academic Office, Pierce Hall 110.



Cross-Listed Courses

***Computer Science 365. SEAS Teaching Practicum**

[*Physics 215. Biological Dynamics - \(New Course\)](#)

[Physics 232 \(formerly Physics 232a\). Advanced Classical Electromagnetism](#)

Graduate Courses of Reading and Research

Reading courses are odd-numbered; research courses are even-numbered.

***Applied Physics 301,302. Ultrafast Electronic Devices**

Catalog Number: 6859,6068

Donhee Ham 4519

***Applied Physics 303,304. Materials Science of Biological Inorganic Nanostructures**

Catalog Number: 3564,9306

Joanna Aizenberg 5876

***Applied Physics 321,322. Materials Physics and Engineering**

Catalog Number: 24677,91306

David R. Clarke 6684

***Applied Physics 323,324. Topics in Materials Science**

Catalog Number: 5947,5970

Shriram Ramanathan 5341

***Applied Physics 325,326. Optics with Cold Atoms, Nano-structures, and Bio-molecules**

Catalog Number: 0488,7669

Lene V. Hau 2151

***Applied Physics 329,330. Heterogeneous Nanophotonic Devices and Bio-templated Electronic Materials**

Catalog Number: 69998,18476

Evelyn Hu 6682

***Applied Physics 331,332. Experimental Condensed Matter Physics**

Catalog Number: 0467,1560

Robert M. Westervelt 6148 (on leave fall term)

***Applied Physics 333,334. Electronic Properties of Nanostructures, Interaction of Biomolecules with Nanostructures, and X-Ray Physics**

Catalog Number: 1033,6126

Jene A. Golovchenko 1986

***Applied Physics 335,336. Theoretical Study of the Structure and Electronic Properties of Nanoscale Materials and Biological Macromolecules**



Catalog Number: 7902,7903
Efthimios Kaxiras 3050

***Applied Physics 337,338. Growth and Properties of Nanostructures and Nanostructure Assemblies; Development and Application of New Probe Microscopies; Biophysics**

Catalog Number: 3050,3051
Charles M. Lieber 3102

***Applied Physics 339,340. Topics in Electromagnetic Theory**

Catalog Number: 4258,3127
Tai T. Wu 1051

***Applied Physics 341,342. Nano-Lasers and Single-Photon Sources**

Catalog Number: 1441,0650
Marko Loncar 5703

***Applied Physics 343,344. Topics in Electromagnetic Theory and Molecular Spectroscopy**

Catalog Number: 2695,4213
Patrick Thaddeus 1398

***Applied Physics 347,348. Mechanics in Earth and Environmental Science**

Catalog Number: 4033,3514
James R. Rice 7270

***Applied Physics 351,352. Statistical and Condensed Matter Theory**

Catalog Number: 3992,3993
Paul C. Martin 2103

***Applied Physics 355,356. Special Topics in Theoretical Engineering**

Catalog Number: 4864,9197
Michael P. Brenner 4101

***Applied Physics 357,358. Nanophotonics**

Catalog Number: 3865,5593
Kenneth B. Crozier 5146

***Applied Physics 359,360. Nonlinear Laser Physics and Materials Engineering**

Catalog Number: 5760,3525
Eric Mazur 7952

***Applied Physics 361,362. Photonics, Quantum Devices and Nanostructures**

Catalog Number: 9431,9506
Federico Capasso 4571



***Applied Physics 363,364. Experimental Soft Condensed Matter Physics**

Catalog Number: 8975,7242

David A. Weitz 2497

***Applied Physics 365,366. Experimental Condensed Matter: Ballistic Transport in Semiconductors, Nanostructures, and Tunneling Microscopy**

Catalog Number: 9195,0425

Venkatesh Narayanamurti 5445

***Applied Physics 367,368. Topics on Condensed Matter Physics**

Catalog Number: 6975,4173

David R. Nelson 5066

***Applied Physics 369,370. Experimental Condensed Matter: Synchrotron X-Ray Scattering Studies of Interfacial Phenomena (Liquids and Solid)**

Catalog Number: 2442,7532

Peter S. Pershan 1105

***Applied Physics 371,372. Biological Physics and Quantitative Biology**

Catalog Number: 6003,9040

Daniel Joseph Needleman 6151

***Applied Physics 373,374. Signaling Processing and Systems Biology**

Catalog Number: 59715,74822

Sharad Ramanathan 6015

***Applied Physics 383,384. Topics in Atmospheric and Climate Dynamics**

Catalog Number: 3214,3221

Zhiming Kuang 5285

***Applied Physics 387,388. Climate Dynamics and Physical Oceanography**

Catalog Number: 3549,8599

Eli Tziperman 4748

***Applied Physics 391,392. Experimental Soft Condensed Matter and Materials Physics**

Catalog Number: 1164,5559

Vinothan N. Manoharan 5251

***Applied Physics 393,394. Experimental Studies of Interfaces and Surfaces**

Catalog Number: 1331,5451

Cynthia M. Friend 7446

***Applied Physics 395,396. Topics in Materials Science**

Catalog Number: 4012,5003

Michael J. Aziz 1337



***Applied Physics 397,398. Materials Science**

Catalog Number: 4266,5010

Frans A. Spaepen 4991 (on leave spring term)

Archaeology

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Committee on Archaeology

Michael McCormick, Francis Goelet Professor of Medieval History (*Chair*)

Ofer Bar-Yosef, George Grant MacCurdy and Janet G. B. MacCurdy Professor of Prehistoric Archaeology (*on leave fall term*)

Ruth Bielfeldt, Assistant Professor of History of Art and Architecture

Suzanne P. Blier, Allen Whitehill Clowes Professor of Fine Arts and Professor of African and African American Studies

David L. Carrasco, Neil L. Rudenstine Professor for the Study of Latin America in the Faculty of Divinity and the Faculty of Arts and Sciences

Susanne Ebbinghaus, George M.A. Hanfmann Curator of Ancient Art

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

Rowan K. Flad, Associate Professor of Anthropology

Joseph Greene, Assistant Director of the Semitic Museum

Ioli Kalavrezou, Dumbarton Oaks Professor of Byzantine Art

C. C. Lamberg-Karlovsky, Stephen Phillips Professor of Archaeology and Ethnology (*on leave fall term*)

Matthew Joseph Liebmann, Assistant Professor of Anthropology (*on leave 2010-11*)

Peter Machinist, Hancock Professor of Hebrew and other Oriental Languages

Peter Der Manuelian, Philip J. King Professor of Egyptology

Richard H. Meadow, Senior Lecturer on Anthropology

Laura S. Nasrallah, Associate Professor of New Testament and Early Christianity (*Divinity School*)

Kimberley C. Patton, Professor of the Comparative and Historical Study of Religion (*Divinity School*)

Jeffrey Quilter, Senior Lecturer on Anthropology

Adrian Staehli, Professor of Classical Archaeology

Lawrence E. Stager, Dorot Professor of the Archaeology of Israel (*on leave fall term*)

Piotr Steinkeller, Professor of Assyriology

Noreen Tuross, Landon T. Clay Professor of Scientific Archaeology (*on leave spring term*)



Jason A. Ur, Associate Professor of Anthropology (*on leave spring term*)
 Gary Urton, Dumbarton Oaks Professor of Pre-Columbian Studies

The Committee on Archaeology is a multidisciplinary group of scholars appointed to promote the teaching of archaeology at Harvard and advance knowledge of archaeological activity, research, fieldwork, and techniques in the many and varied fields where archaeology is employed as an approach to past cultures and histories around the world. Archaeology can be seen as the study of past human societies through the recovery, analysis, and interpretation of material remains. Those who practice archaeology employ a wide range of methods, techniques, and theoretical orientations drawn from across the spectrum of academic disciplines to further their specific intellectual goals. Likewise, scholars of many disciplines who do not consider themselves to be practicing archaeologists nevertheless use the results of archaeological work in their teaching and research.

The teaching of archaeology at Harvard is centered in four departments (programs thereof): Anthropology (Archaeology), The Classics (Classical Archaeology), History of Art and Architecture, and Near Eastern Languages and Civilizations (Ancient Near Eastern and Biblical Studies), although a number of other departments, as well as the Core Curriculum and General Education, also have courses whose instructors integrate archaeological subject matter into their offerings.

The listing below is a compilation of courses in which the practice of archaeology is taught or the use of archaeological information is integral. The interested student is urged to consult the full listings of the various departments for related courses, relevant undergraduate tutorials, and graduate-level reading courses. The courses listed below are ordinarily acceptable for the Secondary Field in Archaeology with the approval of the Secondary Field Adviser. Additional courses including courses in other departments may also be deemed acceptable. See <http://www.secondaryfields.fas.harvard.edu/Arch/program-desc-arch.htm> for information about the Secondary Field in Archaeology.

General Education

[Culture and Belief 21 \(formerly Foreign Cultures 93\). Pathways through the Andes—Culture, History, and Beliefs in Andean South America](#)

[Societies of the World 30. Moctezuma's Mexico: Then and Now](#)

[Societies of the World 38. Pyramid Schemes: The Archaeological History of Ancient Egypt - \(New Course\)](#)

[Societies of the World 40 \(formerly Anthropology 1174\). The Incas: The Last Great Empire of Pre-Columbian South America](#)

[Societies of the World 41 \(formerly History 1050\). Medieval Europe](#)

Core Curriculum

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

[Science of Living Systems 16. Human Evolution and the Human Body](#)

[Social Analysis 50. Urban Revolutions: Archaeology and the Investigation of Early States](#)



Freshman Seminars

[*Freshman Seminar 37n. What's in a Coin? The World of Numismatics](#)

[*Freshman Seminar 44j. The Aztecs and Maya](#)

African and African American Studies

[African and African American Studies 170. The African Past: Art and History to 1800](#)

[African and African American Studies 171. African Art at the Peabody Museum]

[African and African American Studies 174. The African City]

Anthropology

[*Anthropology 91xr \(formerly Anthropology 91r\). Supervised Reading and Research in Archaeology](#)

[*Anthropology 92xr \(formerly Anthropology 92r\). Archaeological Research Methods in Museum Collections](#)

[Anthropology 1010. The Fundamentals of Archaeological Methods & Reasoning](#)

[Anthropology 1040. Origins of the Food We Eat]

[Anthropology 1060. Archaeological Science](#)

[Anthropology 1065. The Ancient Near East]

[Anthropology 1080. North American Archaeology: Lost Tribes and Ancient Capitals of North America]

[Anthropology 1085. Six Great Discoveries in New World Archaeology](#)

[Anthropology 1090. Ethnography and Archaeology]

[Anthropology 1125. The Moche of Ancient Peru: Politics, Economy, Religion and Art]

[Anthropology 1130. Archaeology of Harvard Yard]

[Anthropology 1131. Archaeology of Harvard Yard II: Laboratory Methods and Analysis]

[*Anthropology 1140. Human Modification of the Landscape]

[Anthropology 1150. Ancient Landscapes]

[Anthropology 1155. Before Baghdad: Cities of Ancient Mesopotamia]

[Anthropology 1161. Classic Mayan Language, Literature and Society]

[Anthropology 1165. Digging the Glyphs: Adventures in Decipherment](#)

[Anthropology 1175. The Archaeology of Ethnicity](#)

[Anthropology 1177. South American Archaeology]

[Anthropology 1190. Encountering the Conquistadors]

[Anthropology 1250. The Pyramids of Giza: Technology, Archaeology, History: Seminar - \(New Course\)](#)

[*Anthropology 2000. Osteoarchaeology Lab](#)

[Anthropology 2010ar. Materials in Ancient Societies: Ceramics](#)

[Anthropology 2010br. Materials in Ancient Societies: Ceramics](#)

[*Anthropology 2020 (formerly Anthropology 1065). GIS and Spatial Analysis in Archaeology]

[*Anthropology 2070a. Archaeological Method and Theory: Seminar]

[Anthropology 2090. Economic Archaeology: Culture Contact](#)

[Anthropology 2091r. Issues in Chinese Archaeology]



Anthropology 2092. Early China: Archaeology and Texts

[Anthropology 2110r (formerly Anthropology 211r). Issues in Mesoamerican Archaeology: Seminar]

[Anthropology 2210. Archaeology and the Ancient Economy]

[Anthropology 2240. Archaeology of Production: Seminar]

Anthropology 2250a. Proseminar in Archaeology

[Anthropology 2250b. Proseminar in Archaeology]

Anthropology 2360r (formerly Anthropology 206r). The Archaeology of Human Evolution

Celtic Languages and Literatures

[Celtic 107. Early Irish History]

The Classics

Classical Archaeology 131. Introduction to Greek Art and Archaeology, ca. 1200-300 BCE

History

***History 80e. From Gaul to France: The History, Archaeology and Science of the Fall of the Roman Empire - (New Course)**

[History 1011. The World of the Roman Empire]

History 1012. Identity in Classical Antiquity - (New Course)

[History 1040 (formerly History 1111). The Fall of the Roman Empire]

[History 1700 (formerly History 1904). The History of Sub-Saharan Africa to 1860]

History of Art and Architecture

History of Art and Architecture 13x. Introduction to Greek and Roman Sculpture - (New Course)

***History of Art and Architecture 100r. Sophomore Excursion Course**

[History of Art and Architecture 131g. Pergamon: A Hellenistic Royal Residence and its Roman Afterlife]

History of Art and Architecture 137p. The Roman Dinner Party : Proseminar - (New Course)

[History of Art and Architecture 139x. Art and Life in Pompeii - Proseminar]

History of Art and Architecture 141k. Rome, Constantinople, Ravenna in the Light of Imperial Rule : Proseminar

History of Art and Architecture 143r (formerly *History of Art and Architecture 143m). The Art of the Court of Constantinople : Proseminar

History of Art and Architecture 195m. Art and Landscape: Africa - (New Course)

History of Art and Architecture 197. The Imperial Arts of the Inca and the Aztec

[*History of Art and Architecture 206. Science and the Practice of Art History]

[History of Art and Architecture 235g. The Roman House as Enlivened Space]

History of Art and Architecture 239x (formerly History of Art and Architecture 139j). Greek Myths on Roman Sarcophagi



[*History of Art and Architecture 240r. Topics in Byzantine Art : Materials and Materiality in Byzantine Art](#)

History of Science

[History of Science 186. Technology in the Social World](#)

Human Evolutionary Biology

[Human Evolutionary Biology 1315. Ecology of Modern Hunter Gatherers]

[Human Evolutionary Biology 1318. BioDemography - \(New Course\)](#)

[Human Evolutionary Biology 1325. Evolution of Technology](#)

[Human Evolutionary Biology 1414. Evolution of Human Diet: Research Seminar](#)

[Human Evolutionary Biology 1490. Primate Evolution]

[Human Evolutionary Biology 1530. Hominid Paleontology and Evolution - \(New Course\)](#)

[\[*Human Evolutionary Biology 1580. Paleoecology and Human Evolution\]](#)

Near Eastern Languages and Civilizations

[Ancient Near East 100. History of the Ancient Near East:](#)

[Ancient Near East 102. Introduction to Mesopotamian Religion](#)

[Ancient Near East 104. Babylon]

[Ancient Near East 105. History of the Ancient Near East: The Levant (up to Alexander the Great)]

[Ancient Near East 109r. History and Archaeology of the Ancient Near East](#)

[Ancient Near East 115. Archaeology of the Levant \(Syria-Palestine\)](#)

[Ancient Near East 117. Biblical Archaeology]

[Ancient Near East 118. Syro-Palestinian Pottery]

[\[*Ancient Near East 215r. Problems in the Archaeology of Bronze and Iron Age Levant: Seminar\]](#)

The Study of Religion

[Religion 1016. The Shock of the Old: Conference Course - \(New Course\)](#)

[Religion 1400. Introduction to the New Testament: History and Interpretation](#)

[Religion 1404. Early Christianity in the Roman Empire]

[Religion 2348ab. Archaeology and the World of the New Testament: Seminar](#)

Sanskrit and Indian Studies

[Indian Studies 219. Introduction to World Mythology - \(New Course\)](#)



Asian Studies Programs

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Council on Asian Studies

Arthur Kleinman, Esther and Sidney Rabb Professor of Anthropology in the Faculty of Arts and Sciences and Professor of Medical Anthropology in the Faculty of Medicine (*Chair*)

Ryuichi Abe, Reischauer Institute Professor of Japanese Religions

Asad A. Ahmed, Assistant Professor of Anthropology

William P. Alford, Henry L. Stimson Professor of Law (*Law School*)

Ali S. Asani, Professor of Indo-Muslim and Islamic Religion and Cultures

Theodore C. Bestor, Reischauer Institute Professor of Social Anthropology (*on leave spring term*)

Barry R. Bloom, Harvard University Distinguished Service Professor and Joan L. and Julius H. Jacobson Professor of Public Health (*Public Health*)

Peter K. Bol, Charles H. Carswell Professor of East Asian Languages and Civilizations (*on leave 2010-11*)

Sugata Bose, Gardiner Professor of Oceanic History and Affairs

Mary C. Brinton, Reischauer Institute Professor of Sociology

James K. M. Cheng, Librarian of the Harvard-Yenching Library

Preston Scott Cohen, Gerald M. McCue Professor in Architecture (*Design School*)

Diana L. Eck, Fredric Wertham Professor of Law and Psychiatry in Society

Carter J. Eckert, Yoon Se Young Professor of Korean History

Mark C. Elliott, Mark Schwartz Professor of Chinese and Inner Asian History

Vanessa Liz Fong, Assistant Professor (*Education School*)

Byron J. Good, Professor of Medical Anthropology in the Department of Social Medicine (*Medical School*)

Mary-Jo Del Vecchio Good, Professor of Social Medicine (*Medical School*)

Andrew Gordon, Lee and Juliet Folger Fund Professor of History (*on leave fall term*)

Janet Gyatso, Hershey Professor of Buddhist Studies (*Divinity School*)

Helen Hardacre, Reischauer Institute Professor of Japanese Religions and Society (*on leave spring term*)

Ricardo Hausmann, Professor of the Practice of Economic Development at the John F. Kennedy School of Government (*Kennedy School*)

Michael Herzfeld, Professor of Anthropology

David Howell, Professor of Japanese History

William C. Hsiao, K.T. Li Professor of Economics (*Public Health*)

C.-T. James Huang, Professor of Linguistics (*on leave spring term*)



Wilt L. Idema, Professor of Chinese Literature
 Wesley M. Jacobsen, Professor of the Practice of the Japanese Language and Director of the Japanese Language Program (*on leave 2010-11*)
 Tarun Khanna, Jorge Paulo Lemann Professor (*Business School*)
 Sun Joo Kim, Harvard-Yenching Professor of Korean History (*on leave 2010-11*)
 William C. Kirby, T. M. Chang Professor of China Studies and Spangler Family Professor of Business Administration (*on leave 2010-11*)
 Wai-yee Li, Professor of Chinese Literature (*on leave 2010-11*)
 Yukio Lippit, Harris K. Weston Associate Professor of the Humanities
 Roderick MacFarquhar, Leroy B. Williams Professor of History and Political Science (*on leave spring term*)
 David McCann, Korea Foundation Professor of Korean Literature
 Melissa M. McCormick, Professor of Japanese Art and Culture
 Michael B. McElroy, Gilbert Butler Professor of Environmental Studies (*on leave spring term*)
 Ian J. Miller, Assistant Professor of History
 Anne E. Monius, Professor of South Asian Religions (*Divinity School*)
 Robert D. Mowry, Alan J. Dworksy Curator of Chinese Art (*Sackler Museum*)
 Stephen Owen, James Bryant Conant University Professor
 Elizabeth J. Perry, Henry Rosovsky Professor of Government
 Susan J. Pharr, Edwin O. Reischauer Professor of Japanese Politics (*on leave spring term*)
 Michael J. Puett, Professor of Chinese History
 J. Mark Ramseyer, Professor of Japanese Legal Studies (*Law School*)
 Michael R. Reich, Taro Takemi Professor of International Health Policy (*Public Health*)
 James Robson, Associate Professor of East Asian Languages and Civilizations
 Dani Rodrik, Rafiq Hariri Professor of International Political Economy at the John F Kennedy School Government (*Kennedy School*)
 Anthony Saich, Daewoo Professor of International Affairs at the John F Kennedy School of Government (*Kennedy School*)
 Mary M. Steedly, Professor of Anthropology
 Michael A. Szonyi, Professor of Chinese History
 Hue-Tam Ho Tai, Kenneth T. Young Professor of Sino-Vietnamese History
 Karen Thornber, Assistant Professor of Comparative Literature
 Xiaofei Tian, Professor of Chinese Literature
 Leonard W. J. van der Kuijp, Professor of Tibetan and Himalayan Studies (*on leave fall term*)
 David Der-Wei Wang, Edward C. Henderson Professor of Chinese Literature
 Eugene Wang, Abby Aldrich Rockefeller Professor of Asian Art
 Martin K. Whyte, Professor of Sociology
 Michael Witzel, Wales Professor of Sanskrit
 Richard K. Wolf, Professor of Music

The Council on Asian Studies was created by resolutions of the Faculty of Arts and Sciences of April 12, 1972, and April 25, 2001. It exists to coordinate, advise, and promote teaching and research on Asia. It is comprised of faculty members from different departments of the FAS and from several schools of the University who study East Asia, Southeast Asia, South Asia, and Inner Asia. It oversees or advises several academic programs mentioned below, and it provides faculty oversight to the Harvard University Asia Center.



The AM program in Regional Studies—East Asia is supervised by the Council and is described below.

The AB Concentration in East Asian Studies is advised and supported by the Council, and is described under East Asian Languages and Civilizations. Courses on East Asian languages, early history, literature, and thought are listed under East Asian Languages and Civilizations.

Programs in South Asian Studies and in Inner Asian and Altaic Studies are advised and supported by the Council and are listed separately in the catalog.

Other courses in Asian Studies are listed under the General Education, Core Curriculum, Anthropology, Economics, Government, History, History of Art and Architecture, Linguistics, Psychology, Sociology, the Study of Religion, and other departments.

The Harvard University Asia Center was created in 1997. Its Steering and Executive Committees are drawn from the Faculty of the Council on Asian Studies. The Center coordinates and supports research, teaching, and public programs on Asia throughout the University. The Center sponsors lectures, seminars, and conferences; supports faculty and student research; publishes books and journals; funds research and travel grants to undergraduate and graduate students; administers Harvard's National Resource Center for East Asian Studies, and manages the competition for Title VI Foreign Language and Area Studies Fellowships for graduate and professional students. The Center publishes a bi-weekly calendar of events during the Academic Year. The Asia Center is located at the Center for Government and International Studies (CGIS), 1730 Cambridge Street, room S113.

Faculty of the Standing Committee on the Degree of Master of Arts in Regional Studies-East Asia

Xiaofei Tian, Professor of Chinese Literature (*Chair*)
 Yukio Lippit, Harris K. Weston Associate Professor of the Humanities
 Michael J. Puett, Professor of Chinese History (*Director of Graduate Studies*)
 Michael A. Szonyi, Professor of Chinese History
 Karen Thornber, Assistant Professor of Comparative Literature
 Martin K. Whyte, Professor of Sociology

The program in Regional Studies–East Asia, leading to a Master of Arts degree, is a basic preparation (1) for students who intend to go on to PhD work in an East Asian specialization; and (2) for students who wish to equip themselves for nonacademic work. The program, which normally requires two years for completion, aims to make the student broadly conversant with the societies of the region, and also to give him or her a sound knowledge of one of the languages of the area. Details may be obtained from the Committee's offices at 1730 Cambridge Street, Cambridge, MA, 02138 or 617-495-3777.

Faculty of the Standing Committee on the Degree of Doctor of Philosophy in History and East Asian Languages



Mark C. Elliott, Mark Schwartz Professor of Chinese and Inner Asian History (*Chair*)
 Peter K. Bol, Charles H. Carswell Professor of East Asian Languages and Civilizations (*on leave 2010-11*)
 Carter J. Eckert, Yoon Se Young Professor of Korean History
 Andrew Gordon, Lee and Juliet Folger Fund Professor of History (*on leave fall term*)
 David Howell, Professor of Japanese History
 Sun Joo Kim, Harvard-Yenching Professor of Korean History (*on leave 2010-11*)
 William C. Kirby, T. M. Chang Professor of China Studies and Spangler Family Professor of Business Administration (*on leave 2010-11*)
 Shigehisa Kuriyama, Reischauer Institute Professor of Cultural History (*on leave 2010-11*)
 Ian J. Miller, Assistant Professor of History
 Michael J. Puett, Professor of Chinese History
 Michael A. Szonyi, Professor of Chinese History
 Hue-Tam Ho Tai, Kenneth T. Young Professor of Sino-Vietnamese History

As of 2006, the Standing Committee on the PhD in History and East Asian Languages is not accepting new applications to the program. Interested students should consult the listing for the Department of East Asian Languages and Civilizations under “Degree in History and East Asian Languages” in the Graduate School of Arts and Sciences Handbook.

Graduate Courses of Reading and Research

***Regional Studies — East Asia 300. Thesis Research and Writing**

Catalog Number: 4614

Xiaofei Tian 3746 and members of the Faculty

Candidates for the A.M. degree in Regional Studies-East Asia may undertake A.M. thesis reading and research in an approved area of their choice under the direction of a member of the Faculty.

Note: Limited to students affiliated with the Regional Studies-East Asia program.

***Regional Studies — East Asia 310. Thesis Development**

Catalog Number: 8453

Members of the Committee

Designed to allow students to develop previous research or a previously written paper into the AM thesis, under the direction of an appropriate faculty advisor.

Note: Limited to students affiliated with the Regional Studies-East Asia program. Counts as course credit, but not towards the basic course requirements for the degree.

***Regional Studies — East Asia 399. Reading and Research - (*New Course*)**

Catalog Number: 92282

Xiaofei Tian 3746 and members of the Faculty

Candidates for the A.M. degree in Regional Studies--East Asia may undertake reading and research in an approved area of their choice under the direction of a member of the Faculty.

Note: Graded SAT/UNSAT.

Prerequisite: Permission of the faculty member and the Director of Graduate Studies of the



RSEA program required. Only one course graded SAT/UNSAT may be used to fulfill RSEA course requirement.

Astronomy

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Department of Astronomy

James M. Moran, Donald H. Menzel Professor of Astrophysics (*Chair*)
Charles Alcock, Professor of Astronomy
Edo Berger, Assistant Professor of Astronomy
David Charbonneau, Professor of Astronomy (*Director of Undergraduate Studies*)
Alexander Dalgarno, Phillips Professor of Astronomy (*on leave 2010-11*)
Daniel James Eisenstein, Professor of Astronomy
Douglas Finkbeiner, Associate Professor of Astronomy
Alyssa A. Goodman, Professor of Astronomy
Jonathan E. Grindlay, Paine Professor of Practical Astronomy
Lars Hernquist, Mallinckrodt Professor of Astrophysics (*on leave spring term*)
Robert P. Kirshner, Clowes Professor of Science
John M. Kovac, Assistant Professor of Astronomy and of Physics
Julia C. Lee, Associate Professor of Astronomy
Abraham Loeb, Professor of Astronomy
Ramesh Narayan, Thomas Dudley Cabot Professor of the Natural Sciences (*on leave 2010-11*)
Philip M. Sadler, Frances W Wright Senior Lecturer on Celestial Navigation in the Department of Astronomy
Dimitar D. Sasselov, Professor of Astronomy
Irwin I. Shapiro, Timken University Professor
Alicia M. Soderberg, Assistant Professor of Astronomy
Christopher Stubbs, Professor of Physics and of Astronomy, Harvard College Professor (*on leave spring term*)
Patrick Thaddeus, Robert Wheeler Willson Professor of Applied Astronomy

Other Faculty Offering Instruction in the Department of Astronomy

Raymond Blundell, Lecturer on Astronomy
Thomas M. Dame, Lecturer on Astronomy
Rosanne DiStefano, Lecturer on Astronomy
Martin S. Elvis, Lecturer on Astronomy



Daniel G. Fabricant, Lecturer on Astronomy
 Daniel C. Fabrycky, Lecturer on Astronomy
 Giovanni G. Fazio, Lecturer on Astronomy
 Christine Jones Forman, Lecturer on Astronomy
 William R. Forman, Lecturer on Astronomy
 Lincoln J. Greenhill, Lecturer on Astronomy and Senior Research Fellow
 Matthew Holman, Lecturer on Astronomy
 Lisa Kaltenegger, Lecturer on Astronomy
 Justin C. Kasper, Lecturer on Astronomy
 David W. Latham, Lecturer on Astronomy
 Myron Lecar, Lecturer on Astronomy
 Jeffrey E. McClintock, Lecturer on Astronomy
 Patrick O. Slane, Lecturer on Astronomy
 Howard A. Smith, Lecturer on Astronomy
 David J. Wilner, Lecturer on Astronomy
 Qizhou Zhang, Lecturer on Astronomy

Astronomy 16 provides an introduction to stellar and planetary astrophysics, and Astronomy 17 provides an introduction to galactic and extragalactic astrophysics. Both courses use single-variable calculus and some introductory mechanics. Together these two courses, which may be taken in either order, provide a complete introductory survey of astrophysics. Astronomy 16 and 17 form the foundation for both the secondary field and the concentration in astrophysics. Both courses receive Gen Ed credit. Students interested in an introduction to the methods of observational astrophysics are encouraged to consider Astronomy 100, which includes a trip to use the telescopes located at the F. L. Whipple Observatory in Arizona. Astronomy 98 is a research tutorial intended for students pursuing the astrophysics concentration or secondary field, although this course is open in special cases to concentrators in related fields. Students interested in substantial independent research during their senior year should consider Astronomy 99, leading to the senior thesis. Astronomy 110, 120, 130, 150, 151, 191, 192, and 193 each offer the opportunity for study of a particular field of astrophysics. Each of these courses requires preparation in mathematics and physics.

Students interested in an introduction to astronomy that presumes no mathematical preparation above the level of high school algebra should consider Science A-54, SPU 19 (formerly A-35), SPU 21 (formerly A-36), SPU 22 and Astronomy 2. These courses use a variety of approaches aimed at introducing the key concepts that address some of the great questions of astronomy.

Primarily for Undergraduates

[Astronomy 2. Celestial Navigation](#)

Catalog Number: 2179 Enrollment: Limited to 30.

Philip M. Sadler

Half course (fall term). Tu., 11:30–1:30, Tu., 7–10 p.m. EXAM GROUP: 13, 14, 15, 18

Never be lost again! Find your way on sea, land, or air by employing celestial and terrestrial techniques. Acquire expertise in using navigators' tools (sextant, compass, and charts) while learning the steps to the celestial dance of the sun, moon, stars, and planets. This 108-year-old



course continues to rely on practical skills and collaborative problem-solving, while utilizing historical artifacts (instruments, maps, captains' logs) and student-built devices. Culminating in a day-long cruise to practice navigation skills.

Note: Minimal lecturing; predominantly practical activities with individual attention from teaching staff. Math beyond high school trigonometry and geometry unnecessary.

Astronomy 16. Stellar and Planetary Astronomy

Catalog Number: 8813

Douglas Finkbeiner

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

This course provides an introduction to the physical principles describing the formation and evolution of stars and their planetary companions. Topics include thermal radiation and stellar spectra; telescopes; energy generation in stars; stellar evolution; orbital dynamics; the Solar system; and exoplanets. This course includes an observational component: students will determine the distance to the Sun, and use the Clay Telescope atop the Science Center to study stellar evolution and detect exoplanets.

Note: This course, when taken for a letter grade, meets the General Education requirement for Science of the Physical Universe or the Core area requirement for Science A.

Prerequisite: An introductory course in mechanics, which may be taken concurrently, satisfied by Physics 11a, or Physics 15a, or Physics 16.

Astronomy 17. Galactic and Extragalactic Astronomy

Catalog Number: 22304

Julia C. Lee

Half course (fall term). M., W., 2:30–4. EXAM GROUP: 7, 8

This course provides an introduction to the physical principles describing galaxies and the composition and evolution of the Universe. Topics include the interstellar medium; star clusters; the structure and dynamics of the Milky Way; other galaxies; clusters of galaxies; active galaxies and quasars; cosmology; and the early universe. This course includes an observational component: In addition to observing galaxies with the Science Center Clay Telescope, students will use the millimeter-wavelength telescope at the Harvard-Smithsonian Center for Astrophysics to measure the rotation velocity of the Milky Way galaxy and to determine its mass.

Note: This course, when taken for a letter grade, meets the General Education requirement for Science of the Physical Universe or the Core area requirement for Science A.

Prerequisite: An introductory course in mechanics, which may be taken concurrently, satisfied by Physics 11a, or Physics 15a, or Physics 16.

***Astronomy 91r. Supervised Reading and Research**

Catalog Number: 1545

James M. Moran and members of the Department

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

Supervised reading and research in a subject of astrophysics that is 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 be counted only once toward the concentration requirements, and



may not be taken more than twice.

Prerequisite: Astronomy 16 or Astronomy 17.

***Astronomy 98. Research Tutorial in Astrophysics**

Catalog Number: 3121

David Charbonneau

Half course (spring term). M., 3–4:30, Tu., 5:30–7:30 p.m. EXAM GROUP: 8, 9, 18

This tutorial introduces students to research at the forefront of astrophysics, and provides opportunities for students to meet with research scientists and individuals active in science policy, education, and journalism. Students meet weekly for a lecture and discussion over dinner with a guest speaker, preceded by a reading and a preparatory seminar. Students will be mentored throughout the term on a research project of their choosing. The Harvard-Smithsonian Center for Astrophysics is home to one of the largest groups of astronomers in the world, providing extensive opportunities for undergraduate research.

Note: Open to students pursuing the concentration or secondary field in astrophysics, and in special cases to concentrators in other physical sciences.

Prerequisite: Astronomy 16 or Astronomy 17.

***Astronomy 99. Senior Thesis in Astrophysics**

Catalog Number: 5413

David Charbonneau and members of the Department

Full course. Hours to be arranged.

For honors candidates in Astrophysics. Individually supervised reading and research leading to the senior thesis. The Harvard-Smithsonian Center for Astrophysics is home to one of the largest groups of astronomers in the world, providing extensive opportunities for undergraduate research.

Prerequisite: Astronomy 98.

Cross-listed Courses

[Empirical and Mathematical Reasoning 19 (formerly Quantitative Reasoning 46). The Visual Display of Information: The Art of Numbers]

Science of the Physical Universe 19 (formerly Science A-35). The Energetic Universe

Science of the Physical Universe 21 (formerly Science A-36). Stellar Measures of the Universe

Science of the Physical Universe 22. The Unity of Science: From the Big Bang to the Brontosaurus and Beyond

Science of the Physical Universe 30 (formerly Science A-54). Life as a Planetary Phenomenon

For Undergraduates and Graduates

Astronomy 100. Methods of Observational Astronomy

Catalog Number: 95134

Edo Berger

Half course (spring term). W., 12–2, F., 2–4. EXAM GROUP: 5, 6, 7, 8



In this course we will learn the basic tools of modern astronomical research, including telescopes, detectors, imaging, spectroscopy, and common software. Emphasis will be placed on both the theory behind telescopes and their use, and hands-on experience with real data. Using this basic knowledge we will analyze science-level astronomical data from a wide range of telescopes and review the basic properties of stars, galaxies, and other astronomical objects of interest. The course includes a trip to the F. L. Whipple Observatory on Mount Hopkins, Arizona, to gather data with various telescopes.

Note: This course is similar in content to Astronomy 97 (no longer offered). Students who have taken Astronomy 97 may not take Astronomy 100 for credit.

Prerequisite: Astronomy 16 or Astronomy 17, either of which may be taken concurrently.

Astronomy 110. Exoplanets

Catalog Number: 43612

David Charbonneau

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

A survey of the rapidly-evolving field of the detection and characterization of planets orbiting other stars. Topics include proto-stellar collapse and star formation; comets, meteorites, and protoplanetary disk structure; models of planet formation; methods of detecting extrasolar planets; composition and physical structure of planets; planetary atmospheres; habitable zones; greenhouse effect; biosignatures.

Note: Offered in alternate years.

Prerequisite: Astronomy 16.

Astronomy 120. Stellar Physics

Catalog Number: 58719

Alicia M. Soderberg

Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

Stars are the basic building blocks of galaxies and are responsible for the nucleosynthesis of most of the elements. Topics include stellar structure; energy transport in stars; stellar atmospheres; astroseismology; nuclear fusion in stars; stellar evolution; nucleosynthesis of the elements; stellar death and supernovae; the degenerate remnants of stars; black holes. This course will make use of thermodynamics, statistical mechanics, and quantum mechanics, but will review these subjects as necessary.

Note: Offered in alternate years.

Prerequisite: Astronomy 16. Physics 15c strongly recommended.

[Astronomy 130. Cosmology]

Catalog Number: 73826

Douglas Finkbeiner

Half course (spring term). Tu., Th., 11:30–1.

The physical model describing the initial conditions, evolution, and ultimate fate of the Universe. Topics include cosmic dynamics; the Robertson-Walker Metric; curvature; estimating cosmological parameters; the accelerating universe; dark matter; gravitational lensing; the cosmic microwave background; nucleosynthesis; inflation and the very early universe; formation of structure. *Note:* Offered in alternate years.



Note: Expected to be given in 2011–12.

Prerequisite: Astronomy 17 or Physics 15c.

Astronomy 150. Radiative Processes in Astrophysics

Catalog Number: 8993

Daniel James Eisenstein and Abraham Loeb

Half course (fall term). Tu., Th., 9:30–11. EXAM GROUP: 11, 12, 13

This course offers a survey of radiative processes of astrophysical importance from radio waves to gamma rays. Topics include thermal and non-thermal processes, including bremsstrahlung, synchrotron radiation, and Compton scattering; radiation in plasmas; and atomic and molecular spectra.

Prerequisite: Physics 15c.

[Astronomy 151. Astrophysical Fluid Dynamics]

Catalog Number: 3025

Lars Hernquist

Half course (spring term). M., W., F., at 10.

Fluid and gas dynamics with applications drawn from astrophysical phenomena. Topics include: kinetic theory, diffusive effects, incompressible fluids, inviscid and viscous flows, boundary layer theory, accretion disks, fluid instabilities, turbulence, convection, gas dynamics, linear (sound) waves, method of characteristics, Riemann invariants, supersonic flow, non-linear waves, shocks, similarity solutions, blast waves, radiative shocks, ionization fronts, magnetohydrodynamics, hydromagnetic shocks, dynamos, gravitational collapse, principles of plasma physics, Landau damping, computational approaches, stability criteria, particle based (Lagrangian) methods, adaptive mesh refinement, radiation hydrodynamics.

Note: Expected to be given in 2011–12.

Astronomy 191. Astrophysics Laboratory

Catalog Number: 3615

John M. Kovac

Half course (spring term). W., 2–4 and additional meetings arranged by section.

Laboratory and observational projects in astrophysics. Students design and undertake two projects from a selection including: observational studies of the cosmic microwave background radiation, molecules in interstellar clouds, the rotation of the galaxy, galactic molecular sources with the submillimeter array (SMA), stars and clusters with the Clay Telescope; and laboratory experiments including super-conducting submillimeter detectors, x-ray CCDs, and hard x-ray imaging detectors and telescopes.

Note: Primarily for concentrators in astrophysics or combined concentrators with physics.

Students with physics as their primary concentration, but with a serious interest in astrophysics, may take this to satisfy their laboratory requirement (in lieu of Physics 191) upon petition to the Head Tutor in Physics. This course shall be offered in the fall thereafter.

Prerequisite: Astronomy 16 or 17, or Physics 15c or equivalent.

Astronomy 193. Noise and Data Analysis in Astrophysics

Catalog Number: 4495

James M. Moran



Half course (spring term). M., W., 2–3:30. EXAM GROUP: 7, 8

How to design experiments and get the most information from noisy, incomplete, flawed, and biased data sets. Basic of Probability theory; Bernoulli trials; Bayes theorem; random variables; distributions; functions of random variables; moments and characteristic functions; Fourier transform analysis; Stochastic processes; estimation of power spectra; sampling theorem, filtering; fast Fourier transform; spectrum of quantized data sets. Weighted least mean squares analysis and nonlinear parameter estimation. Bootstrap methods. Noise processes in periodic phenomena. Image processing and restoration techniques. The course will emphasize a Bayesian approach to problem solving and the analysis of real data sets.

Prerequisite: Mathematics 21b or equivalent.

Cross-listed Courses

[**Applied Mathematics 111. Introduction to Scientific Computing**](#)

[**\[Earth and Planetary Sciences 121. Terrestrial Planets\]**](#)

[**Earth and Planetary Sciences 161 \(Global Tectonics\). Planetary Physics and Global Tectonics**](#)

[***Physics 191r. Advanced Laboratory**](#)

Primarily for Graduates

These courses are primarily aimed at graduate students in astronomy, although properly prepared undergraduates and graduate students from other fields are welcome. The required graduate core courses are Astronomy 150, 201a and b, and 202a and b, while a wide range of advanced courses is available for further work. Courses may be available as reading courses at times other than those shown, by arrangement with the instructor. Graduate students in Astronomy are required to take one graduate physics course selected from Physics 210 or 251a (or Astronomy 251). More advanced physics courses may be substituted upon petition to the Committee on Academic Studies.

[**Astronomy 201a. Stellar and Planetary Astrophysics**](#)

Catalog Number: 4303

Dimitar D. Sasselov

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

Stars are studied as the elementary baryonic building blocks of the Universe, and the main source of the evolution of baryonic matter (nucleosynthesis). Planetary systems are studied in terms of the stellar environments for their formation and survival.

Prerequisite: Astronomy 150 (may be taken concurrently).

[**Astronomy 201b. Interstellar Medium and Star Formation**](#)

Catalog Number: 4206

Alyssa A. Goodman

Half course (spring term). Tu., Th., 2–3:30. EXAM GROUP: 16, 17

Nature of the Interstellar Medium (ISM): composition, energetics, densities and interactions; observations and theory. Processes leading to the formation of stars and planets, as well as studies of the feedback on the ISM from stellar deaths.



[Astronomy 202a. Galaxies and Dynamics]

Catalog Number: 8237

Instructor to be determined

Half course (fall term). M., W., at 10.

An overview of extragalactic astronomy. Galaxy formation, evolution and properties, galactic dynamics, clustering, gas dynamics, star formation and other topics at the frontiers of extragalactic astronomy.

Note: Expected to be given in 2011–12.

[Astronomy 202b. Cosmology]

Catalog Number: 2446

Abraham Loeb

Half course (spring term). Tu., Th., 9:30–11.

The cosmological principle: isotropy and homogeneity, cosmological world models, thermal history of the Big Bang, the microwave background, inflation, growth of density fluctuations, large scale structure and other topics at the frontiers of cosmology.

Note: Expected to be given in 2011–12.

[Astronomy 218. Radio Astronomy]

Catalog Number: 2883

James M. Moran

Half course (fall term). Tu., Th., 2–3:30. EXAM GROUP: 16, 17

Historical development; diffraction 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. Observational projects carried out with the Submillimeter Array and Haystack Observatory.

Note: Expected to be given in 2011–12.

Prerequisite: Astronomy 150 or Physics 153 recommended.

[Astronomy 219. High Energy Astrophysics]

Catalog Number: 1858

Jonathan E. Grindlay and Ramesh Narayan

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

Discussion of relativistic and high-energy astrophysical phenomena and observational techniques. Accretion onto compact stars (white dwarfs, neutron stars, black holes); active galactic nuclei, galaxy clusters. Gamma-ray bursts and cosmic rays. X-ray and gamma-ray background.

Note: Expected to be given in 2011–12.

[*Astronomy 224. Solar System Dynamics]

Catalog Number: 8374

Matthew Holman

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

Introduction to techniques of modern solar system dynamics, applied to our own solar system as well as to extra solar planetary systems. Research component focuses on applications of solar



system dynamics to data from Pan-STARRS-1.

Note: Expected to be given in 2011–12.

Prerequisite: Physics 11a, 15a or 16.

Astronomy 251. Quantum Mechanics for Astrophysics

Catalog Number: 5381

Lars Hernquist

Half course (fall term). M., W., F., at 10. EXAM GROUP: 3

Quantum mechanics with applications to atomic and molecular processes important in astronomical environments. Atomic and molecular structure; spectroscopy (selection rules, oscillator strengths, photoionization); scattering theory (elastic, inelastic, approximate methods); line broadening; collision processes (cross sections, rate coefficients) involving electrons, ions, atoms, and molecules.

Prerequisite: Physics 143a or the equivalent, or permission of instructor.

Cross-listed Courses

Applied Mathematics 205. Practical Scientific Computing

[Earth and Planetary Sciences 238. Spectroscopy and Radiative Transfer of Planetary Atmospheres]

Physics 210. General Theory of Relativity

Physics 251a. Advanced Quantum Mechanics I

Graduate Courses of Reading and Research

Unless otherwise specified, these courses are given fall term, repeated spring term.

***Astronomy 300. Topics in Modern Astrophysics**

Catalog Number: 7915

Charles Alcock 5194, Lori E. Allen 5704, Sean M. Andrews 6903, Edo Berger 6027, Raymond Blundell 2753, David Charbonneau 5225, Alexander Dalgarno 1157 (on leave 2010-11), Thomas M. Dame 2755, Rosanne DiStefano 1508, Daniel James Eisenstein 6590, Martin S. Elvis 2530, Daniel G. Fabricant 3711, Giovanni G. Fazio 1143, Douglas Finkbeiner 5556, Christine Jones Forman 5766, William R. Forman 6075, Alyssa A. Goodman 3348, Lincoln J. Greenhill 4490, Jonathan E. Grindlay 4593, Lars Hernquist 4250 (on leave spring term), Matthew Holman 1260, Justin C. Kasper 6261, Robert P. Kirshner 1071, David W. Latham 3716, Myron Lecar 1026, Julia C. Lee 5305, Abraham Loeb 3349, Jeffrey E. McClintock 2108, James M. Moran 4090, Ruth Ann Murray-Clay 6913, Ramesh Narayan 2871 (on leave 2010-11), Dimitar D. Sasselov 1020, Irwin I. Shapiro 7660, Patrick O. Slane 4838, Howard A. Smith 6880, Alicia M. Soderberg 6570, Christopher Stubbs 4856 (on leave spring term), Patrick Thaddeus 1398, David J. Wilner 2855, and Qizhou Zhang 4477

A seminar, reading, or research course may be arranged with any of the faculty listed. Students can also arrange to obtain Astronomy 300 credit for reading or research with scientific staff members of the Harvard-Smithsonian Center for Astrophysics; consult Astronomy Department office.


***Astronomy 301hf. Journal Club**

Catalog Number: 5224

Edo Berger 6027 and Alicia M. Soderberg 6570
Half course (throughout the year). Tu., at 4.

Each week two speakers (faculty, lecturers, and students) will report on current research in astronomy, providing students with an opportunity to practice the organization and presentation of technical material. A minimum of one presentation will be expected from each student each year focused on their own research or new results in the literature. Faculty will similarly discuss recent results from the literature, as well as their own research as a way to provide an overview of research activities at the Harvard Astronomy Department. The course is intended as an opportunity for substantive discussion, as an opportunity to find out about research activities, and to foster interaction between the students and faculty.

***Astronomy 302. Scientists Teaching Science**

Catalog Number: 9869

Philip M. Sadler 2231
Half course (spring term). Tu., 2–3:30.

Learn the secrets of lecturing well, leading discussions, connecting to real-world applications, and creating tests in any scientific discipline as we focus on relevant educational research and case studies, plus engage in practical classroom activities.

Note: Open to graduate students in all areas of science. Assignments help illustrate research findings from life, earth, and physical science education. Undergraduates with an interest in teaching at the pre-college level may be admitted with instructor permission.

Prerequisite: Experience as a teaching fellow or tutor.

Cross-listed Courses
[*Statistics 310hfr. Topics in Astrostatistics]

Biological Sciences in Dental Medicine

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Committee on Higher Degrees in Dental Medicine

 Bjørn R. Olsen, Hersey Professor of Cell Biology (*Medical School*) (*Chair*)

 Malcolm Whitman, Professor of Developmental Biology (*Dental School*) (*Vice Chair*)

Arkhat Abzhanov, Assistant Professor of Organismic and Evolutionary Biology

 Roland Elie Baron, Professor of Oral Medicine, Infection, and Immunity (*Dental School*)



Marianna Bei, Assistant Professor of Surgery (*Medical School*)
Patricia A. D'Amore, Professor of Ophthalmology (Pathology) (*Medical School*)
Beate K. M. Lanske, Associate Professor of Developmental Biology (*Dental School*)
Andrew B. Lassar, Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)
Vicki Rosen, Professor of Developmental Biology (*Dental School*)
Matthew L. Warman, Harriet M. Peabody Professor of Orthopedic Surgery (*Medical School*)

Other Faculty Offering Instruction in Dental Medicine

John D. Bartlett, Assistant Professor of Developmental Biology (*Dental School*)
Floyd E. Dewhirst, Professor of Oral Medicine, Infection, and Immunity (*Medical School*)
Daniel Finley, Professor of Cell Biology (*Medical School*)
David E. Fisher, Edward Wigglesworth Professor of Dermatology (*Medical School*)
Paul F. Goetinck, Professor of Dermatology, Emeritus (*Medical School*)
James Hanken, Professor of Biology and Curator of Herpetology (*on leave fall term*)
Peter V. Hauschka, Associate Professor of Developmental Biology (*Dental School*)
Michael Klagsbrun, Patricia A. Donahoe Professor of Surgery (Pathology) (*Medical School*)
Henry M. Kronenberg, Professor of Medicine (*Medical School*)
Michael Levin, Visiting Professor of Genetics (*Medical School*)
Yefu Li, Assistant Professor of Developmental Biology (*Dental School*)
Yi-Ping Li, Assistant Professor of Oral Medicine, Infection, and Immunity (*Dental School*)
Daniel E. Lieberman, Professor of Human Evolutionary Biology, Harvard College Professor
Henry C. Margolis, Associate Professor of Developmental Biology (*Dental School*)
Bruce J. Paster, Professor of Oral Medicine, Infection, and Immunity (*Dental School*)
Philip P. Stashenko, Associate Professor of Oral Medicine, Infection, and Immunity (*Dental School*)
Martin A. Taubman, Professor of Developmental Biology (*Dental School*)

The Biological Sciences in Dental Medicine (BSDM) Program, leading to the PhD degree combines faculty from the Department of Developmental Biology and other Harvard School of Dental Medicine departments with faculty from basic science departments at Harvard Medical School, and faculty from the Faculty of Arts and Sciences.

This program offers advanced study in the molecular, supramolecular, cellular, and supracellular processes that provide the intellectual basis for dental medicine.

The BSDM program is intended for scholars interested in pursuing a career in basic or patient-oriented science in the areas of skeletal biology, cell biology and development, immunology, or microbiology leading to a PhD degree. Eligible applicants will be individuals with a baccalaureate in sciences (BS), a master degree in sciences, (MS), a doctoral degree in dentistry, (DMD, DDS), or a medical doctoral degree (MD).

Graduate Courses of Reading and Research



***Biological Sciences in Dental Medicine 300. Research with Faculty**

Catalog Number: 9825

Members of the Committee

Biological Sciences in Public Health

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Committee on Higher Degrees in Public Health Sciences

Michael Grusby, Professor of Molecular Immunology (*Public Health*) (*Chair*)

Faculty of the Subcommittee on the Doctor of Philosophy in Biological Sciences in Public Health

Marianne Wessling-Resnick, Professor of Nutritional Biochemistry (*Public Health*) (*Chair*)

Michael Grusby, Professor of Molecular Immunology (*Public Health*) (*ex officio*)

Lester Kobzik, Professor in the Department of Environmental Health (*Public Health*)

Frank M. Sacks, Professor of Cardiovascular Disease Prevention (*Medical School*)

Dyann F. Wirth, Richard Pearson Strong Professor of Infectious Disease (*Public Health*)

Other Faculty Offering Instruction in Biological Sciences in Public Health

Samuel M. Behar, Associate Professor in the Department of Immunology and Infectious Diseases (*Medical School*)

Barbara Burleigh, Associate Professor of Immunology and Infectious Diseases (*Public Health*)

James Preston Butler, Associate Professor of Medicine (*Medical School*)

David Christiani, Professor of Medicine (*Medical School*)

Manoj T. Duraisingh, Assistant Professor of Immunology and Infectious Diseases (*Public Health*)

Myron Essex, Mary Woodard Lasker Professor of Health Sciences (*Public Health*)

Sarah Merritt Fortune, Assistant Professor of Immunology and Infectious Diseases (*Public Health*)

Jeffrey J. Fredberg, Professor of Bioengineering and Physiology (*Public Health*)

Wendy S. Garrett, Assistant Professor of Immunology and Infectious Diseases (*Public Health*)

Laurie H. Glimcher, Irene Heinz Given Professor of Immunology (*Public Health*)

Marcia Goldberg, Associate Professor in the Department of Immunology and Infectious Diseases (*Medical School*)

Gokhan S. Hotamisligil, James Stevens Simmons Professor of Genetics and Metabolism (*Public*

*Health)*

Phyllis J. Kanki, Professor of Immunology and Infectious Diseases (*Public Health*)

Chih-Hao Lee, Assistant Professor of Genetics and Complex Diseases (*Public Health*)

Tun-Hou Lee, Professor of Virology (*Public Health*)

Marc Lipsitch, Professor of Epidemiology (*Public Health*)

Clifford Lo, Assistant Professor of Pediatrics, Harvard Medical School

Brendan D. Manning, Associate Professor of Genetics and Complex Diseases in the Faculty of Public Health (*Public Health*)

Matthias Marti, Assistant Professor in Immunology and Infectious Diseases (*Public Health*)

Karl Münger, Associate Professor of Medicine (*Medical School*)

Brendan D. Price, Assistant Professor of Radiation Oncology (*Medical School*)

Eric J. Rubin, Assistant Professor of Medicine (Microbiology and Molecular Genetics) (*Medical School*)

Joseph G. Sodroski, Professor in the Department of Immunology and Infectious Diseases (*Public Health*)

Daniel J. Tschumperlin, Associate Professor of Bioengineering and Airway Biology (*Public Health*)

Robert O. Wright, Associate Professor in the Department of Environmental Health (*Public Health*)

The FAS Standing Committee on Higher Degrees in Public Health Sciences has the general responsibility of overseeing the existing PhD degree programs in biological sciences and biostatistics and developing new PhD programs in other important domains of public health.

The committee is composed of representatives from the Faculty of Arts and Sciences, the School of Public Health, and the Medical School. The committee membership is drawn from the biological and numeric sciences to reflect the current PhD programs. As new programs are created in the future, members representing other relevant disciplines will be added to the committee.

The committee works with the Subcommittee on the Degree of Doctor of Philosophy in Biological Sciences and the Subcommittee on the Degree of Doctor of Philosophy in Biostatistics to make policy decisions and ensure the continuing strengths of those programs. The committee is also charged with initiating discussion of and planning for additional PhD programs.

The Subcommittee on the Degree of Doctor of Philosophy in Biological Sciences in Public Health (with membership from the Faculty of Arts and Sciences, the Medical School, and the School of Public Health) and the Subcommittee on the Degree of Doctor of Philosophy in Biostatistics (with membership from the Faculty of Arts and Sciences and the School of Public Health) hold responsibility for oversight of their respective programs, including monitoring requirements and standards for the degree and creating standards for admission.

For more courses of interest, see the School of Public Health catalog.

Primarily for Graduates



***BPH 201r. Laboratory Rotations**

Catalog Number: 32079

Marianne Wessling-Resnick (Public Health)

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 biological sciences. Students write a paper and give an oral presentation regarding their 10-week laboratory project.

Note: Offered jointly with the School of Public Health as DBS 300.

BPH 206. Advanced Respiratory Physiology

Catalog Number: 1049

James Preston Butler (Medical School)

Half course (fall term). M., W., 9–10:20. EXAM GROUP: 2, 3

Respiratory measurements are an integral part of public health research. We will critically discuss their scientific bases, noting practical considerations and pitfalls, and their interpretations and inferences about physiological status and disease.

Note: Offered jointly with the School of Public Health as EH 223.

Prerequisite: EH 205 or equivalent, or signature of instructor indicating suitable background required. College-level physiology.

BPH 207. Advanced Topics in Physiology

Catalog Number: 2146

Daniel J. Tschumperlin (Public Health)

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

This course will focus on the intersection of biomechanics, cell biology and disease, with particular attention to the role the mechanical environment plays in pathogenesis of cardiorespiratory diseases and cancer biology. Current knowledge of the molecular mechanisms underlying mechanotransduction will be emphasized throughout the course. The course will meet twice a week, with one day of lecture and the other dedicated to critical reading and discussion of classic and current primary literature.

Note: Offered jointly with the School of Public Health as EH 225.

BPH 208. Human Physiology

Catalog Number: 3627

Stephanie A. Shore (Public Health)

Half course (fall term). M., W., 10:30–12:20.

An introduction to the principles governing function in the human body designed to provide a framework in physiology for future public health researchers and professionals who have not taken college level physiology courses. Emphasis on the concept of homeostasis and on integrative aspects of physiology. Examples of pathophysiology and environmental physiology highlight these processes.

Note: Offered jointly with the School of Public Health as EH 205. Required lab.

Prerequisite: College-level introductory biology or permission of the instructor.

BPH 209. Introduction to Computational Genomics for Infectious Disease

Catalog Number: 87097



Dyann F. Wirth (Public Health)

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

The study of infectious diseases is being revolutionized by the availability of genomic data for many pathogenic organisms. These data include genome sequences and annotation, comparative sequence data and population data, expression data, and metabolic data. For these data to be maximally useful to infectious disease researchers, familiarity with the appropriate analysis, methods, and concepts must be acquired. This course will be an introduction to computational genomics methods with selected applications to infectious disease.

Note: Offered jointly with School of Public Health and MIT.

BPH 210. Pathophysiology of Human Disease

Catalog Number: 3078

Lester Kobzik (Public Health)

Half course (spring term). M., F., 1:30–3:20. EXAM GROUP: 6, 7

Surveys major human disease problems in the cardiovascular, respiratory, hematopoietic, reproductive, and gastrointestinal systems. Emphasis on understanding the pathophysiologic basis of common disease manifestations and the pathogenesis of the disease process.

Note: Offered jointly with the Medical School as BPH 729.0 and with the School of Public Health as EH 208.

Prerequisite: A college-level human physiology course.

[*BPH 212. Cellular and Molecular Biology of Parasites]

Catalog Number: 0703 Enrollment: Limited to 35.

Barbara Burleigh (Public Health) and members of the Department

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

We cover aspects of biochemistry, cell and molecular biology of protozoan parasites of humans, including: malaria, toxoplasma, leishmania, trypanosomes, amoeba, and giardia. Includes in-depth discussions on comparative mechanisms of pathogenesis; unique parasite biochemistry and organelles; strategies/molecular basis for host immune invasion; bioinformatics approaches to molecular pathogenesis.

Note: Expected to be given in 2011–12. Given in alternate years. Offered jointly with the Medical School as BPH 721.0 and with the School of Public Health as IMI 216.

Prerequisite: Coursework in biochemistry, genetics, or microbiology.

BPH 215. Principles of Toxicology

Catalog Number: 5366

Robert O. Wright (Public Health)

Half course (fall term). M., W., 10:30–12:20. EXAM GROUP: 3, 4, 5

Emphasizes mechanisms of injury and clinical consequences following exposures to environmental and occupational chemicals. Examines actions at the molecular, cellular, organ system, and organismal levels. Discusses methods for detecting, evaluating, analyzing, and combating toxic effects.

Note: Offered jointly with the School of Public Health as EH 504.

Prerequisite: Organic chemistry and mammalian physiology or equivalent.



***BPH 216. Immunology of Infectious Diseases**

Catalog Number: 6938 Enrollment: Limited to 35.

Samuel M. Behar (Medical School)

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

Covers in detail the interactions of pathogens with the host immune system, including innate and protective responses and those immune responses that are deleterious. Topics include: overview of immune responses; response of mucosal-secretory immune system to pathogens; innate immunity “the collectins”; innate immunity “Th2 PAMPs”; pathogen regulation of host immune responses; pathogen evasion of immune effector mechanisms; polarization of CD4+ T helper cell subsets and relationship to disease outcome; resistance to HIV; HIV and co-infection with other pathogens; mechanisms of immunopathogenesis; and development of vaccines. Pathogens covered in detail include: HIV, cholera, TB, staph/strep, toxoplasma, intestinal protozoa, malaria, and helminths.

Note: Given in alternate years. Offered jointly with the Medical School as BPH 724.0 and with the School of Public Health as IMI 208. Each lecture requires reading several relevant papers and completion of a problem set.

Prerequisite: An immunology course.

BPH 222. The Science of Human Nutrition

Catalog Number: 0216

Frank M. Sacks (Medical School, Public Health), Clifford Lo (Medical School, Public Health) and members of the Department

Half course (spring term). Tu., Th., 1:30–3:20. EXAM GROUP: 15, 16

A review of the biochemistry of carbohydrates, fats, proteins, vitamins, and minerals in the context of human disease. Contemporary topics are emphasized. Particular emphasis given to current knowledge of the mechanisms that may explain the role of diet in the causation and/or prevention of ischemic heart disease, diabetes, obesity, hypertension, and cancer. Recommended dietary intakes of selected nutrients are discussed in order to understand their limitations.

Note: Offered jointly with the Medical School as BPH 733.0 and with the School of Public Health as NUT 202.

Prerequisite: Introductory nutrition course. Prior familiarity with nutrition and the health sciences expected, as well as a basic knowledge of biochemistry and human physiology.

***BPH 225r. Advanced Topics in Biological Sciences in Public Health: Seminar - (New Course)**

Catalog Number: 58162

Marianne Wessling-Resnick (Public Health)

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

A series of discussions and seminars each running for a half term (7-8 weeks).

Graduate Courses of Reading and Research

****BPH 301 (formerly *BPH 219). Biological Sciences Seminars***

Catalog Number: 1152

Marianne Wessling-Resnick (Public Health)

Half course (fall term). Tu., Th., 9–10:20. EXAM GROUP: 11, 12



Faculty present seminars on their current research in the biological sciences and direct a student discussion of the logic and experimental design of this research. Topics include chemical and viral carcinogenesis, DNA damage and repair, immunology, molecular biology, metabolism, cardiovascular disease, parasitology, and how these areas apply to public health issues.

Note: Required for first-year students in the BPH program. Offered jointly with the School of Public Health as DBS 205.

***BPH 312. Regulation of the Cellular Uptake of Macromolecular Nutrients**

Catalog Number: 2736

Marianne Wessling-Resnick (Public Health) 1315

***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 317. Gene-Environment Interactions in Human Lipoprotein Metabolism**

Catalog Number: 2541

Hannia Campos (Public Health) 2710

***BPH 319. Signaling Mechanisms of Peptide Hormones, Genetic and Molecular Basis of Obesity and Diabetes**

Catalog Number: 8425

Gokhan S. Hotamisligil (Public Health) 2725

***BPH 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) 2276

***BPH 325. Assessment of the Impact of Workplace Pollutants on Health**

Catalog Number: 7448

David Christiani (Public Health, Medical School) 1514

***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 336. Study of Human and Primate T-lymphotrophic Retroviruses Including Agents that Cause AIDS**

Catalog Number: 3248

Myron Essex (Public Health) 2499



***BPH 339. Mechanical Basis of Airway and Lung Parenchymal Function**

Catalog Number: 6572

Jeffrey J. Fredberg (Public Health) 1303

***BPH 340. Genetic Regulation of Immune Response**

Catalog Number: 3323

Laurie H. Glimcher (Public Health, Medical School) 1362

***BPH 345. Lung Macrophage Differentiation and Function**

Catalog Number: 1495

Lester Kobzik (Medical School, Public Health) 1313

***BPH 348. Human and Related Primate Retroviruses**

Catalog Number: 3024

Tun-Hou Lee (Public Health) 2769

***BPH 352. Regulation of Acute Inflammatory Responses by Signaling Molecules**

Catalog Number: 5578

Joseph P. Mizgerd (Public Health) 2787

***BPH 353. Human Papillomaviruses (HPV's): the Cause of Hyperplastic Skin-leisions**

Catalog Number: 6469

Karl Münger (Medical School) 1586

***BPH 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 365. Virulence Factors of Mycobacteria; Acquisition of Virulence Determinants of *Vibrio Cholerae*; Generalized Mutagenesis Systems for Bacteria**

Catalog Number: 5044

Eric J. Rubin (Public Health) 4084

***BPH 366. Theoretical, Statistical, and Experimental Approaches to Population Biology and the Epidemiology of Infectious Diseases**

Catalog Number: 7822

Marc Lipsitch (Public Health) 4097

BPH 368. Host-pathogen Interactions of *Shigella

Catalog Number: 6995

Marcia Goldberg (Medical School) 3783



***BPH 372. Molecular Mechanisms Underlying the Pathogenesis of Human Malaria**

Catalog Number: 2598

Manoj T. Duraisingh (Public Health) 5177

***BPH 374. Nuclear Lipid Receptors as Therapeutic Targets of Metabolic Diseases**

Catalog Number: 3153

Chih-Hao Lee (Public Health) 5294

***BPH 375. Signaling Pathways Underlying Tumorigenesis and Metabolic Diseases**

Catalog Number: 3159

Brendan D. Manning (Public Health) 5293

BPH 376. Secretion and pathogenesis in *M. tuberculosis

Catalog Number: 7620

Sarah Merritt Fortune (Public Health) 5736

***BPH 377. Host-Pathogen Interactions in Malaria Parasites**

Catalog Number: 98913

Matthias Marti (Public Health) 6439

***BPH 378. The Role of Chromatin Structure and Epigenetics in DNA Double-Strand Break Repair**

Catalog Number: 50096

Brendan D. Price (Medical School) 6534

***BPH 379. Transcriptional Mechanisms that Regulate Inflammatory Gene Expression - (New Course)**

Catalog Number: 21747

Tiffany Horng 6612

***BPH 380. Interplay Between the Innate Immune System/Intestinal Microbial Communities - (New Course)**

Catalog Number: 73269

Wendy S. Garrett (Public Health) 6613

***BPH 381. Receptor Signaling and Disease - (New Course)**

Catalog Number: 41678

Quan Lu 6774

Quarter Courses for Graduate Students Only

***BPH 301qc. Molecular Basis for Nutritional & Metabolic Diseases - (New Course)**

Catalog Number: 29149

Chih-Hao Lee (Public Health) and Gokhan S. Hotamisligil (Public Health)

Quarter course (spring term). M., W., 12:30–1:20.

Students have an opportunity to review and analyze key papers that provide physiological and



molecular evidence that bears on a topic of current interest in human nutrition and related disorders. Additionally, students learn skills necessary for critical thinking, and oral and written presentations.

Note: Offered jointly with the School of Public Health as ID 512.

***BPH 302qc. Interdisciplinary Training in Pulmonary Sciences Part II - (New Course)**

Catalog Number: 95778

Quan Lu 6774 and Lester Kobzik (Public Health) 1313

Quarter course (spring term). Tu., 9:30–11:30, F., 12:30–1:20.

The intersection of environment and health is by necessity an interdisciplinary focus. The most promising advances in lung biology and respiratory disease are resulting from teams of scientists with diverse disciplinary training, including biology, medicine, engineering, and physics. In addition to a strong foundation in a specific discipline, the ability to recognize and act upon opportunities presented by outside disciplines is a crucial skill. This course is designed to train scientists to approach lung biology and respiratory diseases with an interdisciplinary perspective, in particular by bridging the gap between life sciences and physical/engineering sciences. With a focus on laboratory sciences and on mechanistic levels of understanding, course materials will cover 3 main problem areas: asthma, air pollution, and lung infection. The course consists of weekly course-meetings (lectures and case-studies) plus weekly research seminars from the physiology program. Students will gain skills in recognizing the relative strengths and weaknesses of different disciplinary approaches applied to pulmonary sciences, in designing interdisciplinary experiments effectively, and in interpreting interdisciplinary results critically.

Note: Offered jointly with the School of Public Health as EH 513.

***BPH 303qc. Critical Reading in Pathophysiology of Human Diseases - (New Course)**

Catalog Number: 44256

Lester Kobzik (Public Health) 1313

Quarter course (spring term). Tu., 3:30–5.

The objectives of this course are to enhance and supplement knowledge of pathophysiology learned in the main course. This course will use critical reading to explore primary literature, and is especially intended for graduate students in the biological sciences. The course materials and discussions will provide a deeper understanding of the application and translation of basic pathophysiology, as found in current biomedical research.

Note: Offered jointly with the School of Public Health as EH 526.

***BPH 304qc. Ecological and Epidemiological Control of Parasitic Diseases - (New Course)**

Catalog Number: 59363

Matthias Marti (Public Health) 6439 and Dyann F. Wirth (Public Health) 2492

Quarter course (fall term). M., W., F., 3:30–5:20.

Provides an introduction to ecological and epidemiological concepts basic to the control of infectious agents. Considers important parasitic diseases of particular significance in the developing areas of the world. Epidemiological principles of vector-associated diseases are elucidated through study of entities such as malaria and schistosomiasis.

Note: Offered jointly with School of Public Health as IID 201.

Prerequisite: Background in biology required; knowledge of pathogenesis of infectious diseases desirable.

***BPH 305qc. Interdisciplinary Training in Pulmonary Sciences Part 1 - (New Course)**

Catalog Number: 22948

*Quan Lu 6774 and Lester Kobzik (Public Health) 1313**Quarter course (fall term). Tu., 9:30–10:20, F., 12:30–1:20.*

The intersection of environment and health is by necessity an interdisciplinary focus. The most promising advances in lung biology and respiratory disease are resulting from teams of scientists with diverse disciplinary training, including biology, medicine, engineering, and physics. In addition to a strong foundation in a specific discipline, the ability to recognize and act upon opportunities presented by outside disciplines is a crucial skill. This course is designed to train scientists to approach lung biology and respiratory diseases with an interdisciplinary perspective, in particular by bridging the gap between life sciences and physical/engineering sciences. With a focus on laboratory sciences and on mechanistic levels of understanding, course materials will cover 3 main problem areas: asthma, air pollution, and lung infection. The course consists of weekly course-meetings (lectures and case-studies) plus weekly research seminars from the physiology program. Students will gain skills in recognizing the relative strengths and weaknesses of different disciplinary approaches applied to pulmonary sciences, in designing interdisciplinary experiments effectively, and in interpreting interdisciplinary results critically.

Note: Offered jointly with School of Public Health as EH 512.

***BPH 306qc. Tuberculosis - (New Course)**

Catalog Number: 89577

*Eric J. Rubin (Medical School), Sarah Merritt Fortune (Public Health), and Edward Anthony Nardell**Quarter course (spring term). Tu., Th., 1:30–3:20.*

This is a comprehensive survey course on tuberculosis featuring lectures by some of the leading authorities in the field. The first half of the course focuses on population issues (TB epidemiology in the US and the world), transmission, modeling, and programmatic issues (the essentials of good TB control both here and in high burden countries). The second month deals more with the biomedical aspects of TB, immunology, genetics, diagnosis, decision analysis, and treatment, again, both here and abroad. There is a field trip to the Massachusetts State Laboratory. Because of involvement of several of the faculty, special attention is paid to the global problem of multidrug resistant TB, and the work of Partners in Health, an NGO associated with the medical school. During the second month, medical students join the SPH students for an elective course involving patient interviews at the state TB hospital. They present these cases and related topics in class during the second month. SPH students are evaluated on the basis of class participation and one or more presentations on relevant TB topics of interest. The course ends on or near World TB Day, with optional TB-related activities in the Boston area.

Note: Offered jointly with School of Public Health as IID 202.

***BPH 307qc. Tumor Cell Metabolism and Signaling - (New Course)**

Catalog Number: 38055 Enrollment: Preference given to PhD students in HILS-affiliated programs (e.g., BPH, BBS, etc.).

*Brendan D. Manning (Public Health) 5293**Quarter course (fall term). M., F., 1:30–3:30.*

This course will focus on the metabolic reprogramming of cells as they undergo the transformation from normal to cancer cells. Emphasis will be placed on the unique nutrient and



energy demands of growing tumors, the molecular mechanisms by which oncogenic signaling pathways alter cellular metabolism, and therapeutic opportunities arising from the profound differences in the metabolism of normal versus tumor cells. This course consists of one lecture and one session of critical reading of current primary literature related to the lecture each week. *Note:* Offered jointly with School of Public Health.

***BPH 308qc. Molecular Signals to Understand Exposure Biology - (New Course)**

Catalog Number: 25653

Instructor to be determined

Quarter course (spring term).

This course will offer students a deeper understanding of molecular signals often termed, as "Biomarkers" that serve as highly useful tools for understanding the biology of the disease as well as nature and extent of human exposure from environmental contaminants and drugs. The course is divided in 4 modules: 1) Biomarker discovery, 2) Organ/Disease specific biomarkers, 3) Multiscale technologies for biomarker quantitation, and 4) Clinical and statistical considerations in biomarker research.

Note: Offered jointly with School of Public Health as EH 527.

Biophysics

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Committee on Higher Degrees in Biophysics

James M. Hogle, Edward S. Harkness Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*) (*Chair*)

Howard C. Berg, Herchel Smith Professor of Physics and Professor of Molecular and Cellular Biology

Stephen C. Blacklow, Professor of Pathology (*Medical School*)

George M. Church, Professor of Genetics (*Medical School*)

Stephen C. Harrison, Giovanni Armenise - Harvard Professor of Basic Biomedical Science (*Medical School*)

David R. Liu, Professor of Chemistry and Chemical Biology, Harvard College Professor

Markus Meister, Jeff C. Tarr Professor of Molecular and Cellular Biology

Aravinthan D. T. Samuel, Professor of Physics (*on leave fall term*)

Eugene I. Shakhnovich, Professor of Chemistry and Chemical Biology

Gerhard Wagner, Elkan Blout Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)

Xiaowei Zhuang, Professor of Chemistry and Chemical Biology and of Physics

***Other Faculty Offering Instruction in Biophysics***

John A. Assad, Professor of Neurobiology (*Medical School*)
Frederick Ausubel, Professor of Genetics (*Medical School*)
Brian Bacsikai, Associate Professor of Neurology (*Medical School*)
William H. Bossert, David B. Arnold, Jr. Professor of Science
Martha L. Bulyk, Associate Professor of Pathology (*Medical School*)
Lewis C. Cantley, Professor of Systems Biology (*Medical School*)
James J. Chou, Associate Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)
David E. Clapham, Aldo R. Castaneda Professor of Cardiovascular Research (*Medical School*)
Jon Clardy, Hsien Wu and Daisy Yen Wu Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)
Adam E. Cohen, Assistant Professor of Chemistry and Chemical Biology and of Physics
Jonathan B. Cohen, Professor of Neurobiology (*Medical School*)
David P. Corey, Professor of Neurobiology (*Medical School*)
Vladimir Denic, Assistant Professor of Molecular and Cellular Biology
John E. Dowling, Gordon and Llura Gund Professor of Neurosciences
Jacques Dumais, Associate Professor of Organismic and Evolutionary Biology
Michael J. Eck, Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)
Florian Engert, Professor of Molecular and Cellular Biology
Raymond L. Erikson, American Cancer Society Professor of Cellular and Developmental Biology (*on leave fall term*)
Rachelle Gaudet, Professor of Molecular and Cellular Biology
David E. Golan, Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)
Jene A. Golovchenko, Rumford Professor of Physics and Gordon McKay Professor of Applied Physics
J. Woodland Hastings, Paul C. Mangelndorf Professor of Natural Sciences
Sun Hur, Assistant Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)
Donald E. Ingber, Professor of Bioengineering
David Jeruzalmi, Associate Professor of Molecular and Cellular Biology
Tomas Kirchhausen, Professor of Cell Biology (*Medical School*)
Roy Kishony, Associate Professor of Systems Biology (*Medical School*)
Nancy Kleckner, Herchel Smith Professor of Molecular Biology
Isaac S. Kohane, Lawrence J. Henderson Professor of Pediatrics (*Medical School*)
Roberto G. Kolter, Professor of Microbiology and Molecular Genetics (*Medical School*)
Galit Lahav, Assistant Professor of Systems Biology (*Medical School*)
Andres Leschziner, Assistant Professor of Molecular and Cellular Biology
Erel Levine, Assistant Professor of Physics
Jun S. Liu, Professor of Statistics
L. Mahadevan, Lola England de Valpine Professor of Applied Mathematics and of Organismic and Evolutionary Biology (*on leave 2010-11*)
Jarrod Marto, Assistant Professor of Biological Chemistry and Molecular Pharmacology



(Medical School)

Keith W. Miller, Mallinckrodt Professor of Pharmacology in the Department of Anaesthesia

(Medical School)

Leonid Mirny, Member of the Faculty of the Harvard-MIT Division of Health Sciences and Technology *(Medical School)*

Timothy J. Mitchison, Hasib Sabbagh Professor of Systems Biology *(Medical School)*

Andrew W. Murray, Herchel Smith Professor of Molecular Genetics

Venkatesh N. Murthy, Professor of Molecular and Cellular Biology

Daniel Joseph Needleman, Assistant Professor of Applied Physics

Erin K. O'Shea, Professor of Molecular and Cellular Biology and of Chemistry and Chemical Biology

Bence P. Olveczky, Assistant Professor of Organismic and Evolutionary Biology

David Pellman, Professor of Cell Biology *(Medical School)*

Mara Prentiss, Mallinckrodt Professor of Physics

Sharad Ramanathan, Assistant Professor of Molecular and Cellular Biology

Tom Rapoport, Professor of Cell Biology *(Medical School)*

Samara Louise Reck-Peterson, Assistant Professor of Cell Biology *(Medical School)*

Gary B. Ruvkun, Professor of Genetics *(Medical School)*

Bernardo L. Sabatini, Professor of Neurobiology *(Medical School)*

Stuart L. Schreiber, Morris Loeb Professor of Chemistry

Brian Seed, Professor of Genetics *(Medical School)*

Jagesh V. Shah, Assistant Professor of Systems Biology *(Medical School)*

William Shih, Associate Professor of Biological Chemistry and Molecular Pharmacology *(Medical School)*

Steven E. Shoelson, Professor of Medicine *(Medical School)*

Pamela A. Silver, Professor of Systems Biology *(Medical School)*

Timothy A. Springer, Latham Family Professor of Pathology *(Medical School)*

Hanno Steen, Assistant Professor of Pathology *(Medical School)*

Collin Melveton Stultz, Member of the Faculty of Health Sciences and Technology *(Medical School)*

Shamil R. Sunyaev, Associate Professor of Medicine *(Medical School)*

Jack Szostak, Professor of Genetics *(Medical School)*

Naoshige Uchida, Associate Professor of Molecular and Cellular Biology

Gregory L. Verdine, Erving Professor of Chemistry in the Department of Stem Cell & Regenerative Biology

John R. Wakeley, Professor of Organismic and Evolutionary Biology

Ronald L. Walsworth, Senior Lecturer on Physics

Thomas Walz, Professor of Cell Biology *(Medical School)*

George M. Whitesides, Woodford L. and Ann A. Flowers University Professor

Kai Wucherpfennig, Professor of Neurology *(Medical School)*

Xiaoliang Sunney Xie, Mallinckrodt Professor of Chemistry and Chemical Biology

Gary I. Yellen, Professor of Neurobiology *(Medical School)*

Biophysics students should consult course listings from the departments of Life Sciences, Chemistry and Chemical Biology, Physics, Molecular and Cellular Biology, the School of



Engineering and Applied Sciences (Applied Mathematics, Applied Physics, Computer Sciences, Engineering Sciences), Systems Biology, and the Division of Medical Sciences.

For Undergraduates and Graduates

[Biophysics 101 (Genomics and Computational Biology). Computational Biology]

Catalog Number: 6896

George M. Church (Medical School)

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

Integrating knowledge, research tools in new aspects of bioengineering, personalized medicine, genetically modified organisms, etc. Interplays of biophysical, ecological, economic, and social/ethical modeling are explored through multi-disciplinary teams of students, and individual brief reports.

Note: Expected to be given in 2011–12. Section times will be determined at first class. Offered in alternate years.

Biophysics 170. Quantitative Genomics

Catalog Number: 3598

Shamil R. Sunyaev (Medical School), Isaac S. Kohane (Medical School), Leonid Mirny (Medical School), and members of the Committee

Half course (fall term). M., W., F., 2:30–4. EXAM GROUP: 7, 8

In-depth study of genomics: models of evolution and population genetics; comparative genomics: analysis and comparison; structural genomics: protein structure, evolution and interactions; functional genomics, gene expression, structure and dynamics of regulatory networks.

Note: Meets at MIT

Cross-listed Courses

Applied Mathematics 105a. Complex and Fourier Analysis

Applied Mathematics 105b. Ordinary and Partial Differential Equations

Applied Mathematics 115. Mathematical Modeling

Applied Mathematics 147. Nonlinear Dynamical Systems

Chemistry 160. Physical Chemistry

Chemistry 161. Statistical Thermodynamics

Chemistry 163. Frontiers in Biophysics

***Chemistry 165. Experimental Physical Chemistry**

***Chemistry 170 (formerly *Chemistry 270). Chemical Biology**

Engineering Sciences 145. Physiological Systems Analysis

Engineering Sciences 156. Signals and Systems

Mathematics 115. Methods of Analysis

MCB 105. Systems Neuroscience

MCB 111. Mathematics in Biology

MCB 115. Cellular Basis of Neuronal Function

[*MCB 129. Molecular Genetics of Neural Development and Behavior]

MCB 156. Structural Biology of the Flow of Information in the Cell



[MCB 169. Molecular and Cellular Immunology](#)

[MCB 176. Biochemistry of Membranes](#)

[OEB 189. Cell Growth and Form](#)

[SCRB 150 \(formerly MCB 150\). Human Genetics: Mining Our Genomes for an Understanding of Human Variation and Disease](#)

Primarily for Graduates

[Biophysics 204. Structural Biology From Molecules to Cells]

Catalog Number: 1728

Stephen C. Harrison (Medical School)

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

Imaging of molecules and of molecular localization in cells, including x-ray and electron crystallography, electron microscopy of single molecules, and high-resolution light microscopy.

Lectures and student presentations of selected papers from the literature.

Note: Expected to be given in 2011–12.

[Biophysics 205. Computational and Functional Genomics](#)

Catalog Number: 6777 Enrollment: Limited to 20.

Martha L. Bulyk (Medical School) and Shamil R. Sunyaev (Medical School)

Half course (spring term). M., W., 3–4:30. EXAM GROUP: 8, 9

Experimental functional genomics, computational prediction of gene function, and properties and models of complex biological systems. The course will primarily involve critical reading and discussion rather than lectures.

Prerequisite: Molecular Biology (MCB 52 or equivalent), solid understanding of basic probability and statistics.

[Biophysics 242r. Special Topics in Biophysics](#)

Catalog Number: 6011

James M. Hogle, William Shih, and members of the Committee

Half course (spring term). M., W., 1-2:30. EXAM GROUP: 6, 7

New topics in Biophysics emerging from research in faculty laboratories, topics in areas of special interest which would not normally be available in the established curriculum. This year's focus on biologically inspired molecular engineering.

Note: Weekly lectures with discussion sections.

Cross-listed Courses

[Applied Mathematics 201. Physical Mathematics I](#)

[Applied Mathematics 202. Physical Mathematics II]

[BCMP 200. Molecular Biology](#)

[BCMP 201. Proteins: Structure, Function and Catalysis]

[BCMP 228. Macromolecular NMR](#)

[Cell Biology 201. Molecular Biology of the Cell](#)

[Chemical Biology 207 \(formerly Chemical Biology 2100\). Molecular Approaches to Drug Action, Discovery, and Design](#)



[*Chemistry 242. Quantum Mechanics for Physical Chemistry](#)
[Genetics 201. Principles of Genetics](#)
[MCB 212. Topics in Biophysics](#)
[*Microbiology 205. Mechanisms of Microbial Pathogenesis](#)
[Neurobiology 200. Introduction to Neurobiology](#)
[Neurobiology 204. Neurophysiology of Central Circuits](#)
[Neurobiology 221. Molecular Neurobiology](#)
[OEB 242. Population Genetics](#)
[Systems Biology 200. Dynamic and Stochastic Processes in Cells](#)
[Systems Biology 205 \(formerly Systems Biology 207\). Synthetic Biology](#)

Graduate Courses of Reading and Research

***Biophysics 300. Introduction to Laboratory Research**

Catalog Number: 7509

James M. Hogle (Medical School) 2943 and members of the Committee

Half course (fall term; repeated spring term). M., W., F., at 4:30. EXAM GROUP: Fall: 9

Introductory lectures by associated Biophysics faculty members. Lectures Fall semester only accompanied by three periods of instruction in laboratories of structural biology, cell and membrane biophysics, molecular genetics and development, neurobiology, bioinformatics, and physical biochemistry.

Note: Fall semester only: meets on both the Cambridge and HMS campuses. Contact department for fall course schedule.

***Biophysics 301. Quantitative Proteomics of Cancer Progression**

Catalog Number: 1302

Jarrold Marto (Medical School) 5326

***Biophysics 302. Quantitative Analysis of Regulatory Networks**

Catalog Number: 4405

Erin K. O'Shea 5239

***Biophysics 303. NMR Studies of Macromolecular Structure and Function**

Catalog Number: 6135

Gerhard Wagner (Medical School) 2626

***Biophysics 304. Basic Mechanisms of T cell Mediated Autoimmune Diseases**

Catalog Number: 5921

Kai Wucherpfennig (Medical School) 2481

***Biophysics 305. Experimental Atomic Physics, Biophysics, and Soft Matter Physics**

Catalog Number: 8626

Ronald L. Walsworth 2263



***Biophysics 306. Quantitative Models of Cellular Behavior to Investigate Protein Function**

Catalog Number: 4339

Jagesh V. Shah (Medical School) 5248

***Biophysics 307. Dynamics of Network Motifs in Single Living Human Cells**

Catalog Number: 9749

Galit Lahav (Medical School) 5247

***Biophysics 308. System-level Genetic Networks**

Catalog Number: 1036

Roy Kishony (Medical School) 5501

***Biophysics 309. Motile Behavior of Bacteria**

Catalog Number: 2070

Howard C. Berg 1377

***Biophysics 310. Sensory Information in Neuronal Processes**

Catalog Number: 6651

Naoshige Uchida 5745

***Biophysics 311. Digital Computer Applications in Biophysics**

Catalog Number: 7606

William H. Bossert 1049

***Biophysics 312. Multiphoton Microscopy in Imaging Alzheimer's Disease**

Catalog Number: 5860

James M. Hogle (Medical School) 2943 and Brian Bacskai (Medical School) 6693

***Biophysics 313. Neurobiology of Vocal Learning**

Catalog Number: 9094

Bence P. Olveczky 6003

***Biophysics 314. Structure of Viruses and Viral Proteins**

Catalog Number: 0687

James M. Hogle (Medical School) 2943

***Biophysics 315. Structural Molecular Biology**

Catalog Number: 2805

Stephen C. Harrison (Medical School) 3597

***Biophysics 316. Structural Biology of ATP-Dependent Chromatin Remodeling**

Catalog Number: 4680

Andres Leschziner 5928



***Biophysics 317. Biophysical Aspects of the Visual System**

Catalog Number: 4770

John E. Dowling 3545

***Biophysics 318. Mechanisms of Circadian Rhythms, Bioluminescence**

Catalog Number: 4699

J. Woodland Hastings 1311

***Biophysics 319. Analysis of Structure and Function of Nicotinic Acetylcholine Receptors**

Catalog Number: 36825

Adam E. Cohen 5761

***Biophysics 320. Single Molecule Studies of Cellular Motors**

Catalog Number: 51932

Samara Louise Reck-Peterson (Medical School) 6165

***Biophysics 321. Molecular and Mechanical Analysis of Chromosomes**

Catalog Number: 7297

Nancy Kleckner 4697

***Biophysics 322. Structural Diversification of Very Long-Chain Fatty Acids**

Catalog Number: 67039

Vladimir Denic 6216

***Biophysics 324. Conformational Changes in Macromolecules**

Catalog Number: 2656

Collin Melveton Stultz (Medical School) 6295

***Biophysics 325. Physics of Macromolecular Assemblies and Subcellular Organization**

Catalog Number: 15517

Daniel Joseph Needleman 6151

***Biophysics 326. Statistical and Continuum Mechanics of Macromolecular Assemblies**

Catalog Number: 82146

L. Mahadevan 4758 (on leave 2010-11)

***Biophysics 327. Molecular Genetics**

Catalog Number: 4202

Frederick Ausubel (Medical School) 4639

***Biophysics 328. Mechanics and Morphogenesis of Plant Development - (New Course)**

Catalog Number: 92917

Jacques Dumais 4719



***Biophysics 329. Computational and Functional Genomics**

Catalog Number: 4437

George M. Church (Medical School) 1608

***Biophysics 330. Principles of Self vs. Non-self RNA Discrimination by the Immune System - (New Course)**

Catalog Number: 41395

Sun Hur (Medical School) 6403

***Biophysics 331. Communication of Information In and Between Cells and Organisms - (New Course)**

Catalog Number: 56502

Erel Levine 6304

***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 334. Decision Making in Cells and Organisms - (New Course)**

Catalog Number: 71609

Sharad Ramanathan 6015

***Biophysics 336. Mass Spectrometric and Proteomic Studies of the Cell Cycle - (New Course)**

Catalog Number: 20087

Hanno Steen (Medical School) 6572

***Biophysics 337. Membrane Structure and Function**

Catalog Number: 1800

Keith W. Miller (Medical School) 4124

***Biophysics 341. Structure and Function of Ligand-Gated Ion Channels**

Catalog Number: 7567

Jonathan B. Cohen (Medical School) 1120

***Biophysics 343. Theoretical Protein Science, Bioinformatics, Computational Chemistry**

Catalog Number: 6947

Eugene I. Shakhnovich 3147

***Biophysics 344. Directed Evolution and Design of Simple Cellular Systems**

Catalog Number: 6277

Jack Szostak (Medical School) 7096



***Biophysics 346. Biofilm Dynamics**

Catalog Number: 5538

Roberto G. Kolter (Medical School) 7727

***Biophysics 347. Membrane Dynamics; Membrane Structure**

Catalog Number: 5516

David E. Golan (Medical School) 1558

***Biophysics 348. Protein Kinases, Reversible Protein Phosphorylation**

Catalog Number: 4964

Raymond L. Erikson 7506 (on leave fall term)

***Biophysics 349. Structural Biochemistry and Cell Biology of Intracellular Membrane Traffic**

Catalog Number: 4487

Tomas Kirchhausen (Medical School) 1155

***Biophysics 351. Signal Transduction**

Catalog Number: 3848

Lewis C. Cantley (Medical School) 1287

***Biophysics 353. Molecular Genetics of Development**

Catalog Number: 5016

Gary B. Ruvkun (Medical School) 1366

***Biophysics 354. Structural Biology and Cancer Drug Discovery**

Catalog Number: 4420

Gregory L. Verdine 1980

***Biophysics 355. Chemical Genetics and Genomics**

Catalog Number: 3035

Stuart L. Schreiber 2166

***Biophysics 361. Rational Drug Design; Biomaterials Science; Biophysics**

Catalog Number: 7080

George M. Whitesides 7447

***Biophysics 362. Molecular Physiology of Ion Channels**

Catalog Number: 3784

Gary I. Yellen (Medical School) 3268

***Biophysics 363. Biophysics of Receptor-Ligand Interactions**

Catalog Number: 8687

Stephen C. Blacklow (Medical School) 1462



***Biophysics 364. Systems Cell Biology**

Catalog Number: 5528

Pamela A. Silver (Medical School) 1595

***Biophysics 365. Visual Processing in Primates**

Catalog Number: 8145

John A. Assad (Medical School) 2985

***Biophysics 366. Imaging, Optics, and Biology**

Catalog Number: 2877

David E. Clapham (Medical School) 2987

***Biophysics 367. Structure Biology of Cytoplasmic Signal Transduction**

Catalog Number: 5512

Michael J. Eck (Medical School) 1739

***Biophysics 368. Probing Polymers with Nanospores, Experimental Condensed Matter Physics**

Catalog Number: 1400

Jene A. Golovchenko 1986

***Biophysics 369. Organic Chemistry and Chemical Biology of Molecular Evolution**

Catalog Number: 6337

David R. Liu 2717

***Biophysics 370. Cytoskeleton Dynamics; Mitosis and Cell Locomotion; Small Molecule Inhibitors**

Catalog Number: 8034

Timothy J. Mitchison (Medical School) 3713

***Biophysics 371. Mechanisms of Synaptic Transmission and Plasticity**

Catalog Number: 2326

Venkatesh N. Murthy 2424

***Biophysics 372. Protein Transport Across the ER Membrane**

Catalog Number: 6922

Tom Rapoport (Medical School) 1815

***Biophysics 374. High-Resolution Electron Microscopy**

Catalog Number: 8225

Thomas Walz (Medical School) 3778

***Biophysics 375. Single-Molecule Biophysics**

Catalog Number: 7900

Xiaoliang Sunney Xie 2290



***Biophysics 376. Functional and Computational Genomics Studies of Transcription Factors and Cis Regulatory Elements**

Catalog Number: 2254

Martha L. Bulyk (Medical School) 4259

***Biophysics 377. Statistical Theory and Inference for Stochastic Processes: With Applications to Bioinformatics**

Catalog Number: 4768

Jun S. Liu 3760

***Biophysics 378. Structural and Cellular Biology of Insulin Signal Transduction**

Catalog Number: 4856

Steven E. Shoelson (Medical School) 3951

***Biophysics 379. Theoretical Population Genetics**

Catalog Number: 2274

John R. Wakeley 5680

***Biophysics 380. Microarray Data: Issues and Challenges**

Catalog Number: 4402

James M. Hogle (Medical School) 2943 and Leonid Mirny (Medical School) 5773

***Biophysics 381. Single-Molecule Biophysics**

Catalog Number: 3046

Xiaowei Zhuang 3991

***Biophysics 382. Regulation of Synaptic Transmission and Dendritic Function in the Mammalian Brain**

Catalog Number: 6116

Bernardo L. Sabatini (Medical School) 4300

***Biophysics 384. NMR Spectroscopy on Membrane-associated Proteins and Peptides**

Catalog Number: 4531

James J. Chou (Medical School) 4950

***Biophysics 385. Small Molecule Signaling, Biosynthesis, and Drug Discovery**

Catalog Number: 8378

Jon Clardy (Medical School) 4667

***Biophysics 386. Synaptic Plasticity and Neuronal Networks**

Catalog Number: 3012

Florian Engert 4290

***Biophysics 387. Structural Studies of the Stereochemistry of Signaling and Transport through Biological Membranes**



Catalog Number: 6869
Rachelle Gaudet 4413

***Biophysics 388. Structural Studies of Nucleo-Protein Assemblies**

Catalog Number: 1543
David Jeruzalmi 4528

***Biophysics 389. Chemical Biology and Systems Biology**

Catalog Number: 4245
Gavin MacBeath 4347

***Biophysics 390. Regulation of Mitosis**

Catalog Number: 2157
Andrew W. Murray 3765

***Biophysics 391. Computational Methods in Genetics, Genomics and Proteomics**

Catalog Number: 7043
Shamil R. Sunyaev (Medical School) 4671

***Biophysics 392. Biophysics of Mechanosensation**

Catalog Number: 2687
David P. Corey (Medical School) 1345

***Biophysics 393. The Mechanics and Regulation of Mitosis**

Catalog Number: 6759
David Pellman (Medical School) 3702

***Biophysics 394. Experimental Biophysics**

Catalog Number: 7138
Mara Prentiss 2741

***Biophysics 395. Biophysics of Cell Adhesion and Vascular Shear Flow**

Catalog Number: 3918
Timothy A. Springer (Medical School) 6145

***Biophysics 396. Behavioral Neuroscience and Neurophysiology**

Catalog Number: 0966
Aravinthan D. T. Samuel 4625 (on leave fall term)

***Biophysics 397. Research in Integrin Signaling, Cytoskeleton, and Control of Angiogenesis**

Catalog Number: 2982
Donald E. Ingber 2832

***Biophysics 399. Biomolecular Nanotechnology**

Catalog Number: 8294
William Shih (Medical School) 5256



Biostatistics

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Committee on Higher Degrees in Public Health Sciences

Michael Grusby, Professor of Molecular Immunology (*Public Health*) (*Chair*)

Faculty of the Subcommittee on the Degree of Doctor of Philosophy in Biostatistics

Victor Gerard DeGruttola, Professor of Biostatistics (*Public Health*) (*Chair*)

David J. Hunter, Vincent L. Gregory Professor in Cancer Prevention (*Public Health*) (*ex officio*)

Xiao-Li Meng, Whipple V.N. Jones Professor of Statistics (*on leave 2010-11*)

Carl N. Morris, Professor of Statistics

Giovanni Parmigiani, Professor of Biostatistics (*Public Health*)

Other Faculty Offering Instruction in Biostatistics in Public Health

Rebecca A. Betensky, Professor of Biostatistics (*Public Health*)

Tianxi Cai, Associate Professor of Biostatistics (*Public Health*)

Paul J. Catalano (*Public Health*)

Brent Andrew Coull, Associate Professor of Biostatistics (*Public Health*)

Roger B. Davis, Associate Professor in the Department of Biostatistics (*Public Health*)

Francesca Dominici, Professor of Biostatistic (*Public Health*)

Dianne Madelyn Finkelstein, Professor in the Department of Biostatistics (*Public Health*)

Garrett M. Fitzmaurice, Professor in the Department of Biostatistics (*Public Health*)

Kimberlee Gauvreau, Assistant Professor in the Department of Biostatistics (*Public Health*)

Richard D. Gelber, Professor in the Department of Biostatistics (*Public Health*)

Rebecca S. Gelman, Associate Professor in the Department of Biostatistics (*Public Health*)

Robert J. Glynn, Associate Professor in the Department of Biostatistics (*Public Health*)

Robert James Gray, Professor of Biostatistics (*Public Health*)

David P. Harrington, Professor of Biostatistics (*Public Health*)

Winston Hide, Associate Professor of Bioinformatics and Computational Biology (*Public Health*)

Michael David Hughes, Professor of Biostatistics (*Public Health*)

Curtis Huttenhower, Assistant Professor of Computational Biology and Bioinformatic (*Public Health*)

Peter Kraft, Associate Professor of Epidemiology (*Public Health*)

Nan Laird, Professor of Biostatistics (*Public Health*)



Christoph Lange, Associate Professor of Biostatistics (*Public Health*)
 Cheng Li, Associate Professor of Biostatistics (*Public Health*)
 Yi Li, Associate Professor of Biostatistics (*Public Health*)
 Xihong Lin, Professor of Biostatistics (*Public Health*)
 Jun S. Liu, Professor of Statistics
 Xiaole Shirley Liu, Associate Professor of Biostatistics (*Public Health*)
 Judith Lok, Assistant Professor of Biostatistic (*Public Health*)
 Donna S. Neuberg (*Public Health*)
 Sharon-Lise T. Normand, Professor in the Department of Biostatistics (*Public Health*)
 Endel J. Orav, Associate Professor in the Department of Biostatistics (*Public Health*)
 Alexander Ozonoff (*Public Health*)
 Christopher J. Paciorek (*Public Health*)
 Marcello Pagano, Professor of Statistical Computing (*Public Health*)
 John Quackenbush, Professor of Computational Biology and Bioinformatics (*Public Health*)
 James M. Robins, Mitchell L. and Robin LaFoley Dong Professor of Epidemiology (*Public Health*)
 Bernard Rosner, Professor of Medicine (Biostatistics)
 Andrea Gloria Rotnitzky (*Public Health*)
 Louise M. Ryan (*Public Health*)
 David A. Schoenfeld, Professor in the Department of Biostatistics (*Public Health*)
 Armin Schwartzman, Assistant Professor of Biostatistics (*Public Health*)
 Donna Lynn Spiegelman, Professor of Epidemiologic Methods (*Public Health*)
 Marcia Anne Testa Simonson (*Public Health*)
 Molin Wang, Assistant Professor of Biostatistics (*Public Health*)
 James H. Ware, Frederick Mosteller Professor of Biostatistics (*Public Health*)
 Lee-Jen Wei, Professor of Biostatistics (*Public Health*)
 Milton C. Weinstein, Henry J Kaiser Professor of Health Policy and Management and Biostatistics (*Medical School, Public Health*)
 Paige L. Williams (*Public Health*)
 David Wypij, Senior Lecturer on Biostatistics (*Public Health*)
 Grace Wyshak, Associate Professor in the Departments of Biostatistics and Global Health and Population (*Public Health*)
 Guocheng Yuan, Assistant Professor of Computational Biology and Bioinformatics (*Public Health*)
 Marvin Zelen (*Public Health*)

Primarily for Graduates

Further details about the course descriptions below can be found in their entirety at www.biostat.harvard.edu/courses/course.html

***Biostatistics 230. Probability Theory and Applications I**

Catalog Number: 6183

Armin Schwartzman (*Public Health*)

Half course (fall term). M., W., 8:30-10:20, and a weekly two-hour lab.

Axiomatic foundations of probability, independence, conditional probability, joint distributions,



transformations, moment generating functions, characteristic functions, moment inequalities, sampling distributions, modes of convergence and their interrelationships, laws of large numbers, central limit theorem, and stochastic processes.

Note: Offered jointly with the School of Public Health as BIO230.

***Biostatistics 231. Statistical Inference I**

Catalog Number: 8773

Rebecca A. Betensky (Public Health)

Half course (spring term). M., W., 10:30-12:20, and a weekly 90-minute lab.

Exponential families, sufficiency, ancillarity, completeness, method of moments, maximum likelihood, unbiased estimation, Rao-Blackwell and Lehmann-Scheffe theorems, information inequality, Neyman-Pearson theory, likelihood ratio, score and Wald tests, uniformly and locally most powerful tests, asymptotic relative efficiency.

Note: Offered jointly with the School of Public Health as BIO231.

Prerequisite: Biostatistics 230 or signature of instructor required.

***Biostatistics 232. Methods I**

Catalog Number: 0131

Xihong Lin (Public Health)

Half course (fall term). M., W., 10:30-12:20.

Introductory course in the analysis of Gaussian and categorical data. The general linear regression model, ANOVA, robust alternatives based on permutations, model building, resampling methods (bootstrap and jackknife), contingency tables, exact methods, logistic regression.

Note: Offered jointly with the School of Public Health as BIO232.

Prerequisite: Signature of instructor required.

***Biostatistics 233. Methods II**

Catalog Number: 7804

Brent Andrew Coull (Public Health)

Half course (spring term). M., W., 8:30-10:20, and a weekly 90-minute lab.

Intermediate course in the analysis of Gaussian, categorical, and survival data. The generalized linear model, Poisson regression, random effects and mixed models, comparing survival distributions, proportional hazards regression, splines and smoothing, the generalized additive model.

Note: Offered jointly with the School of Public Health as BIO233.

Prerequisite: Biostatistics 232 or signature of instructor required.

***Biostatistics 235. Regression and Analysis of Variance**

Catalog Number: 7549

Tianxi Cai (Public Health)

Half course (fall term). M., W., 10:30-12:20.

An advanced course in linear models - regression and analysis of variance. Estimation (maximum likelihood and least squares) and inference (confidence intervals, hypothesis testing, analysis of residuals) are presented from a theoretical and data analysis perspective.

Note: Offered jointly with the School of Public Health as BIO235.



Prerequisite: Biostatistics 230 and Biostatistics 232. Background in matrix algebra and linear regression required.

[Biostatistics 237. Modern Statistical Computing Environments]

Catalog Number: 7940 Enrollment: Enrollment in a biostatistics or related degree program required.

Instructor to be determined

Half course (fall term). Tu., Th., 3:30–5:20.

Statistical computing environments under windows and Linux systems. Taught in a computing lab, the course consists of lectures, demonstrations and hands-on exercises. Example topics include R, SAS, LaTeX, Python, and online resources.

Note: Expected to be given in 2011–12. Offered jointly with the School of Public Health as BIO237.

[Biostatistics 238. Principles and Advanced Topics in Clinical Trials]

Catalog Number: 9623

Victor Gerard DeGruttola (Public Health) and James H. Ware (Public Health)

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

This course focuses on selected advanced topics in design, analysis, and interpretation of clinical trials, including study design; choice of endpoints (including surrogate endpoints); interim analyses and group sequential methods; subgroup analyses; and meta-analyses.

Note: Expected to be given in 2011–12.

Prerequisite: BIST 230, and BIST 231 (may be taken concurrently) or signature of instructor required.

Biostatistics 244. Analysis of Failure Time Data

Catalog Number: 2140

Judith Lok (Public Health)

Half course (spring term). M., W., 10:30–12:20.

Discusses the theoretical basis of concepts and methodologies associated with survival data and censoring, nonparametric tests, and competing risk models. Much of the theory is developed using counting processes and martingale methods.

Note: Offered jointly with the School of Public Health as BIO244.

Prerequisite: Biostatistics 231 and Biostatistics 233.

Biostatistics 245. Analysis of Multivariate and Longitudinal Data

Catalog Number: 3247

David Wypij (Public Health)

Half course (spring term). Tu., Th., 10:30–12:20.

The multivariate normal distribution, Hotelling's T^2 , MANOVA, repeated measures, the multivariate linear model, random effects and growth curve models, generalized estimating equations, multivariate categorical outcomes, missing data, computational issues for traditional and new methodologies.

Note: Offered jointly with the School of Public Health as BIO245.

Prerequisite: Biostatistics 231 and Biostatistics 235.



***Biostatistics 249. Bayesian Methodology in Biostatistics**

Catalog Number: 0759

Francesca Dominici (Public Health)

Half course (fall term). Tu., Th., 10:30–12:20.

General principles of the Bayesian approach, prior distributions, hierarchical models and modeling techniques, approximate inference, Markov chain Monte Carlo methods, model assessment and comparison. Bayesian approaches to GLMMs, multiple testing, nonparametrics, clinical trials, survival analysis.

Note: Offered jointly with the School of Public Health as BIO249. Offered in alternate years.

Prerequisite: Biostatistics 231 and Biostatistics 232, or signature of instructor required.

***Biostatistics 250. Probability Theory and Applications II**

Catalog Number: 5076

Robert James Gray (Public Health)

Half course (fall term). M., W., 1:30–3:20.

Basic set theory, measure theory, Riemann-Stieltjes and Lebesgue integration, conditional probability, conditional expectation (projection), martingales, Radon-Nikodym derivative, product measure and Fubini's Theorem, limit theorems on sequences of random variables, stochastic processes, weak convergence.

Note: Offered jointly with the School of Public Health as BIO250.

Prerequisite: Biostatistics 230 and Biostatistics 232, or signature of instructor required.

Biostatistics 251. Statistical Inference II

Catalog Number: 5280

Andrea Gloria Rotnitzky (Public Health)

Half course (spring term). Tu., Th., 1:30–3:20.

Advanced topics in statistical inference. Limit theorems, multivariate delta method, properties of maximum likelihood estimators, saddle point approximations, asymptotic relative efficiency, robust and rank-based procedures, resampling methods, nonparametric curve estimation.

Note: Offered jointly with the School of Public Health as BIO251.

Prerequisite: Biostatistics 231.

[Biostatistics 257. Advanced Statistical Genetics]

Catalog Number: 8359

Instructor to be determined

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

This survey course, intended for a wide audience, will provide an introduction to analytic techniques for modern genomics and genetics. Topics include genome sequencing, DNA microarrays, proteomics, genetic epidemiology and gene mapping for complex disease.

Note: Expected to be given in 2011–12.

Prerequisite: BIO 231 and BIO 233, or permission of instructor required.

[Biostatistics 291. Statistical Methods for Causality]

Catalog Number: 5654

Andrea Gloria Rotnitzky (Public Health)

Half course (spring term). Tu., Th., 3:30–5:20.



Theory of directed acyclic graph models. Identifiability of causal contrasts. Theory and applications of locally semiparametric efficient doubly-robust estimation in two models for counterfactual variables: marginal structural models and structural nested models.

Note: Expected to be given in 2011–12.

Prerequisite: BIO 231, or permission of instructor required.

Biostatistics 297. Genomic Data Manipulation - (New Course)

Catalog Number: 67195

Curtis Huttenhower (Public Health)

Half course (spring term). M., W., 3:30–5:20.

Introduction to genomic data, computational methods for interpreting these data, and a survey of current functional genomics research. Covers biological data processing, programming for large datasets, high-throughput data (sequencing, proteomics, expression, etc.), and related publications.

Note: Offered jointly with the School of Public Health as BIO508.

Biostatistics 298. Introduction to Computational Biology and Bioinformatics - (New Course)

Catalog Number: 15673 Enrollment: Good quantitative skills, strong interest in biology, willingness and diligence to learn programming.

Xiaole Shirley Liu (Public Health)

Half course (spring term). Tu., Th., 11:30–1.

Basic problems, technology platforms, algorithms and data analysis approaches in computational biology. Algorithms covered include dynamic programming, hidden Markov model, Gibbs sampler, clustering and classification methods.

Note: Offered jointly with the School of Public Health as BIO512.

Prerequisite: STAT 110 or equivalent, CS 50 or equivalent, or Biostatistics major.

Biostatistics 299. Advanced Computational Biology and Bioinformatics - (New Course)

Catalog Number: 82302

Winston Hide (Public Health) and Guocheng Yuan (Public Health)

Half course (fall term). M., W., 3:30–5:20.

Students will explore current topics in computational biology in a seminar format with a focus on interpretation of 'omics data. They will develop skills necessary for independent research using computational biology.

Note: Offered jointly with the School of Public Health as BIO513.

Prerequisite: Biostatistics 298 or permission of instructor required.

Graduate Courses of Reading and Research

***Biostatistics 350. Research**

Catalog Number: 0406

Members of the Department

For doctoral candidates who have passed their written qualifying examination and who are undertaking advanced work along the lines of fundamental or applied dissertation research in the department.



Business Studies

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

PhD programs in Business Economics and Organizational Behavior are administered by the Standing Committee on Higher degrees in Business Studies. These programs are intended for students who wish to enter careers in scholarship and advanced research. For the latest Doctoral Program course offerings from the Harvard Business School, please visit www.hbs.edu/doctoral/registrar/course.html.

Faculty of the Committee on Higher Degrees in Business Studies

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, chaired by Professor Mihir Desai (Business School), is composed of the following subcommittees:

Subcommittee on the Degree of Doctor of Philosophy in Business Economics

Jerry R. Green, David A Wells Professor of Political Economy (*Chair*)
George Pierce Baker, Herman C. Krannert Professor of Business Administration (*Business School*)
Mihir A. Desai, Mizuho Financial Group Professor of Finance (*Business School*) (*ex officio*)
Joshua Lerner, Jacob H. Schiff Professor of Investment Banking (*Business School*)
Ariel Pakes, Thomas Professor of Economics
Alvin E. Roth, George Gund Professor of Economics and Business Administration (*on leave spring term*)
David S. Scharfstein, Edmund Cogswell Converse Professor of Finance and Banking (*Business School*)
Jeremy C. Stein, Moise Y. Safra Professor of Economics
Luis M. Viceira, George E. Bates Professor (*Business School*)
Dennis A. Yao, Lawrence E. Fouraker Professor of Business Administration (*Business School*)

Subcommittee on the Degree of Doctor of Philosophy in Organizational Behavior

Peter V. Marsden, Edith and Benjamin Geisinger Professor of Sociology, Harvard College Professor, Dean of Social Science (*Chair*)
Max H. Bazerman, Jesse Isidor Straus Professor of Business Administration (*Business School*)



Mihir A. Desai, Mizuho Financial Group Professor of Finance (*Business School*) (*ex officio*)
Amy C. Edmondson, Novartis Professor of Leadership and Management (*Business School*)
Ranjay Gulati, Jaime and Josefina Chua Tiampo Professor of Business Administration (*Business School*)
J. Richard Hackman, Edgar Pierce Professor of Social and Organizational Psychology
Kathleen Louise McGinn, Cahners-Rabb Professor of Business Administration (*Business School*)
Jeffrey T. Polzer, UPS Foundation Professor of Human Resource Management (*Business School*)
Toby Evan Stuart, Charles Edward Wilson Professor of Business Administration (*Business School*)
Christopher Winship, Diker-Tishman Professor of Sociology

Subcommittee on the Degree of Doctor of Philosophy in Science, Technology, and Management

Mihir A. Desai, Mizuho Financial Group Professor of Finance (*Business School*) (*Co-Chair*)
Woodward Yang, Gordon McKay Professor of Electrical Engineering and Computer Science (*Co-Chair*)

Celtic Languages and Literatures

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Department of Celtic Languages and Literatures

Catherine McKenna, Margaret Brooks Robinson Professor of Celtic Languages and Literatures (*Chair*)
Simon R. Innes, Assistant Professor of Celtic Languages and Literatures
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

Graduate students in the Faculty of Arts and Sciences may enroll in certain foreign language courses for the grade of Satisfactory/Unsatisfactory. Students should consult with course heads to determine if a course is offered on that basis.

Primarily for Undergraduates



***Celtic 91r. Supervised Reading and Research**

Catalog Number: 1323

Members of the Department

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

Instruction and direction of reading on topics not treated in regular courses of instruction.

Cross-listed Courses

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

For Undergraduates and Graduates

Celtic 103. Celts: People or Myth? - (New Course)

Catalog Number: 51424

Catherine McKenna

Half course (spring term). Tu., Th., at 11. EXAM GROUP: 13

This course examines the ways that an elusive population group called "The Celts" has been constructed from antiquity to the present. We study the linguistic, archaeological, genetic, mythological, literary and institutional bases of "Celticity" in the light of recent critiques of the ways in which these different kinds of evidence have been asked to walk hand in hand with one another in the service of certainty about Celtic identity.

Note: Expected to be omitted in 2011–12. All texts are read in translation.

Celtic 106. The Folklore of Gaelic Scotland - (New Course)

Catalog Number: 85544

Simon R. Innes

Half course (fall term). Tu., Th., at 3. EXAM GROUP: 17

An introduction to the oral traditions of Gaelic Scotland and Nova Scotia, including narrative and song. The process of collecting is explored, and various folkloristic theories and approaches applied in order to gain a deeper understanding of the material.

Note: Expected to be omitted in 2011–12. No knowledge of Gaelic required.

[Celtic 107. Early Irish History]

Catalog Number: 7976

Instructor to be determined

Half course (fall term). Tu., Th., at 12.

An introduction to the history of Ireland from the advent of Christianity, through the Viking incursions, to the Anglo-Norman conquest of 1167 A.D. Making use of such historical and pseudo-historical sources as the Irish annals, regnal lists, genealogies, laws, martyrologies and other hagiography; as well as archaeological and climatological evidence; the course examines major social, political, military, religious, and cultural developments in the so-called 'Celtic' Ireland.

Note: Expected to be given in 2012–13. No knowledge of Irish required; all texts are read in English translation.



Celtic 114. Early Irish Historical Tales

Catalog Number: 0781

Tomás Ó Cathasaigh

Half course (spring term). M., W., (F.), at 1. EXAM GROUP: 6

Introduction to early Irish story-material about legendary and historical persons and events.

Attitudes to kingship and views of history in the tales are explored.

Note: Expected to be omitted in 2011–12. All texts are read in English translation.

Celtic 118. The Gaelic World: 12th Century to 17th Century - (New Course)

Catalog Number: 34022

Simon R. Innes

Half course (fall term). Tu., Th., at 12. EXAM GROUP: 14

An introduction to the history and culture of Gaelic Scotland and Ireland, with particular attention to Gaelic literary sources and outsiders' views of the Gaels.

Note: Expected to be omitted in 2011–12. All readings in English translation.

Celtic 119. The Gaelic World: 17th Century to the Present - (New Course)

Catalog Number: 49129

Simon R. Innes

Half course (spring term). Tu., Th., at 12. EXAM GROUP: 14

An introduction to the later history and culture of Gaelic Scotland and Ireland, with particular attention to Gaelic literary sources and outsiders' views of the Gaels. Language decline and revitalization efforts are also explored.

Note: Expected to be omitted in 2011–12. All readings in English translation.

Celtic 128. Introduction to Modern Welsh

Catalog Number: 4148

Catherine McKenna and others

Half course (fall term). M., W., F., at 10. EXAM GROUP: 3

Introduction to the Welsh language as spoken and written today, designed for those with little or no prior knowledge of this vibrant Celtic language. Intensive conversation practice is provided, and students learn to write fluently. Internet, audio and video exercises using dialogue, music and film augment a contextualized grammatical survey, and use of authentic literary texts increases as the course progresses.

Note: The combination of Celtic 128 followed by Celtic 129r satisfies the language requirement. It is recommended in any case that this course be followed by Celtic 129r. May not be taken Pass/Fail. Not open to auditors.

Celtic 129r. Intermediate Modern Welsh

Catalog Number: 4694

Catherine McKenna and others

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

Direct continuation of Celtic 128, developing and deepening students' knowledge of, and skill in, the modern spoken and written language. By the end of the semester students will be able to converse, read and write in a number of registers of idiomatic Welsh (academic, literary, informal). Various media, featuring dialogue, music and film, augment the advanced



grammatical survey. Central cultural and historical issues are discussed.

Note: This course, when taken following Celtic 128, satisfies the language requirement. May not be taken Pass/Fail. Not open to auditors.

Prerequisite: Celtic 128 or permission of instructor.

[Celtic 130. Introduction to Scottish Gaelic]

Catalog Number: 1846

Instructor to be determined

Half course (fall term). M., W., F., at 11.

An introduction to Scottish Gaelic as it is spoken and written today, using a variety of individual and group exercises and drills to impart a thorough understanding of the structure of the contemporary language, while at the same time developing aural and oral skills to enable students to experience and use it in a variety of social and cultural contexts.

Note: Expected to be given in 2012–13. The combination of Celtic 130 followed by Celtic 131 satisfies the language requirement. It is recommended in any case that this course be followed by Celtic 131. May not be taken Pass/Fail. Not open to auditors.

[Celtic 131. Intermediate Scottish Gaelic]

Catalog Number: 4542

Instructor to be determined

Half course (spring term). M., W., F., at 11.

A continuation of 130 in which we draw on current journalism, short stories and poetry, traditional tales and song-texts to build up familiarity with the main registers of contemporary Scottish Gaelic, together with confidence in speaking, understanding, reading and writing the language.

Note: Expected to be given in 2012–13. This course, when taken following Celtic 130, satisfies the language requirement. May not be taken Pass/Fail. Not open to auditors.

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

An introduction to Irish as it is spoken and written today. Class work is participatory, and includes conversational role play and games as well as grammar study and drills. Audio and audiovisual resources reinforce pronunciation and aural comprehension. Songs, proverbs, and poems are an integral part of the course, introducing students to the vibrant oral and literary tradition of Gaelic Ireland.

Note: The combination of Celtic 132 and 133r satisfies the language requirement. It is recommended in any case that this course be followed by Celtic 133r. May not be taken Pass/Fail. Not open to auditors.

Celtic 133r. Intermediate Modern Irish

Catalog Number: 6689

Tomás Ó Cathasaigh and others

Half course (spring term). M., W., F., at 11. EXAM GROUP: 4



A continuation of Celtic 132, developing students' fluency in spoken and written Irish. As our knowledge of the language expands, we venture into storytelling, journal writing and writing and performing short skits. Internet, audio and video resources complement the study of grammar and select prose texts.

Note: This course, when taken following Celtic 132, satisfies the language requirement. May not be taken Pass/Fail. Not open to auditors.

Prerequisite: Celtic 132 or permission of instructor.

[Celtic 137. Celtic Mythology]

Catalog Number: 1300

Tomás Ó Cathasaigh

Half course (fall term). M., W., (F.), at 11.

A survey of the sources for the study of Celtic mythology, with special attention to selected texts from early Ireland and Wales.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A. All texts are read in English translation.

[Celtic 138. Narrative Traditions of Medieval Wales]

Catalog Number: 6480

Catherine McKenna

Half course (fall term). Tu., Th., at 11.

An exploration of the Four Branches of the Mabinogi, Welsh Arthurian romances and tales, and the bardic lore associated with them, in the context of the literary culture of Wales in the twelfth through fourteenth centuries.

Note: Expected to be given in 2011–12. All texts are read in English translation.

[Celtic 151. The Literature of Medieval Celtic Christianity]

Catalog Number: 5560

Catherine McKenna

Half course (spring term). Tu., Th., at 11.

A study of selected texts representative of early and medieval Christianity in Ireland and Wales, including saints' lives, voyage and vision narratives, hymns, prayers and poetry, in the context of the history of Christianity and especially of the development of monasticism.

Note: Expected to be given in 2011–12. All texts are read in English translation.

Celtic 160. Advanced Modern Irish

Catalog Number: 0704

Tomás Ó Cathasaigh and others

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

Geared to the interests and aptitudes of the participants, this course enhances students' confidence in using Irish as a medium of oral and written communication and introduces them to the Gaelic literary tradition.

Note: Expected to be omitted in 2011–12. 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). M., W., F., at 12. EXAM GROUP: 5

Continuation of the fall term course.

Note: Expected to be omitted in 2011–12.

Prerequisite: Celtic 160 or permission of instructor.

Celtic 184. The Táin

Catalog Number: 2150

Tomás Ó Cathasaigh

Half course (fall term). M., W., (F.), at 1. EXAM GROUP: 6

A study of the exuberant Irish prose epic *Táin Bó Cúailnge* ('Cattle-Raid of Cooley').

Note: Expected to be omitted in 2010-2011. Text read in English translation.

[Celtic 188. Scottish Gaelic Poetry]

Catalog Number: 97048

Instructor to be determined

Half course (fall term). M., W., (F.), at 2.

An exploration of the different types of vernacular Gaelic poetry composed in Scotland from the 16th to the 19th century, including personal lyrics and public praise-poetry, and an examination of the poets' responses to the transformation of Gaelic society from the 'clan' period to the Jacobite Risings, the Highland Clearances and the Gaelic revival at the time of the Land Wars. The course is built around the close study of a series of key texts to be read in English translation.

Note: Expected to be given in 2012–13.

[Celtic 189. The Gaelic Learned Tradition]

Catalog Number: 45526

Instructor to be determined

Half course (spring term). M., W., (F.), at 2.

An exploration of the place and function, training and repertoire, ethos and ideology, productions and manuscript legacy of the professional poetic families of the Gaelic continuum in Ireland and Scotland in the 'Classical' Early Modern period (c. 12th to c. 17th century). The course is built around the close study of a series of key texts to be read in English translation.

Note: Expected to be given in 2012–13.

Celtic 194. Celtic Bards and Their Poems - (New Course)

Catalog Number: 66531

Catherine McKenna

Half course (fall term). Tu., Th., at 11. EXAM GROUP: 13

This course explores the role of the bard, or professional poet, in the Celtic-speaking societies of Wales, Ireland and Scotland. Through the study of narrative sources concerning the origin and nature of poets and poetry, theoretical and legal texts, and, most especially, bardic poems from the early Middle Ages through the eighteenth century, we examine the physical, public and political power of a medium-poetic verse-now associated with "power" in the private and



emotional sense only. We study bardic poems in various modes - eulogistic, satiric, commemorative, prophetic - and we examine the circumstances that support the institution of bardic poetry and those that contribute to its decline. Among the issues to be considered are patronage, convention, the relationship of rhetoric and truth, and the functions of poetic form. All readings in English translation, but there will be some exposure to the forms of bardic poetry in the original languages.

Note: Expected to be omitted in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A. All texts are read in English translation.

Celtic 195. Modern Scottish Gaelic Literature - (New Course)

Catalog Number: 64236

Simon R. Innes

Half course (spring term). Tu., Th., at 3. EXAM GROUP: 17

This course explores the interplay between innovation and tradition in Scottish Gaelic literature, and in particular poetry, since the nineteenth century. Topics include poetry of place, war poetry and contemporary poetry.

Note: Expected to be omitted in 2011–12. No knowledge of Gaelic required.

Cross-listed Courses

[Linguistics 158r. From Indo-European to Old Irish]

[Scandinavian 160a. Old Norse Language, Literature, and Culture: The Viking Legacy]

[Scandinavian 160br. Old Norse Language, Literature, and Culture: Mythology]

Primarily for Graduates

[Celtic 200. Introduction to Old Irish]

Catalog Number: 8266

Tomás Ó Cathasaigh

Half course (fall term). M., W., F., at 3.

An introduction to the language of the eighth and ninth centuries, with elementary readings in prose texts.

Note: Expected to be given in 2011–12. 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.

Further grammatical study, with continued reading of saga texts.

Note: Expected to be given in 2011–12.

Prerequisite: Celtic 200 or permission of the instructor.

Celtic 204r. Readings in Early Irish Poetry

Catalog Number: 8493

Tomás Ó Cathasaigh



Half course (fall term). M., W., (F.), at 3. EXAM GROUP: 8

Readings in selected texts.

Note: Expected to be omitted in 2011–12.

Prerequisite: Celtic 200 or permission of the instructor.

Celtic 205r. Readings in Early Irish Prose

Catalog Number: 2705

Tomás Ó Cathasaigh

Half course (spring term). M., W., (F.), at 3. EXAM GROUP: 8

Readings in selected texts.

Note: Expected to be omitted in 2011–12.

Prerequisite: Celtic 200 or permission of the instructor.

Celtic 225a. Medieval Welsh Language and Literature

Catalog Number: 3960

Catherine McKenna

Half course (fall term). Tu., Th., at 2. EXAM GROUP: 16

Introduction to the language and culture of medieval Wales, with particular attention to narrative prose literature and its Celtic, Welsh and Norman contexts. By the end of the term we will have read in the original one of the *Four Branches of the Mabinogi* and selections from other texts.

Note: Expected to be omitted in 2011–12. It is suggested that this course be followed by Celtic 225b.

Celtic 225b. Medieval Welsh Prose and Poetry

Catalog Number: 4167

Catherine McKenna

Half course (spring term). Tu., Th., at 2. EXAM GROUP: 16

An exploration of the enormous variety of medieval Welsh literature: tales and romances from native and Norman sources, chronicles, laws, and lore; and the exuberant lyric poetry of the fourteenth century, with particular attention to Dafydd ap Gwilym and Iolo Goch.

Note: Expected to be omitted in 2011–12.

Prerequisite: Celtic 225a or equivalent preparation in Middle Welsh.

[Celtic 226r. Readings in Middle Welsh]

Catalog Number: 2796

Catherine McKenna

Half course (fall term). Th., 2–4.

Readings in native tales, romance, and the poetry of the *cywyddwyr*.

Note: Expected to be given in 2011–12.

Prerequisite: Celtic 225b or permission of the instructor.

[Celtic 227. Seminar: Welsh Bardic Poetry]

Catalog Number: 2580

Catherine McKenna

Half course (spring term). Th., 2–4.

Readings from the *hengerdd*, the *beirdd y tywysogion* and the *beirdd yr uchelwyr*; consideration



of the social and political contexts of their poetry, its forms, and its relationship to other medieval European poetic traditions.

Note: Expected to be given in 2011–12.

Prerequisite: Knowledge of Welsh or permission of the instructor.

Cross-listed Courses

[Medieval Studies 201 \(formerly Medieval Studies 101\). The Auxiliary Disciplines of Medieval History: Proseminar](#)

Graduate Courses of Reading and Research

***Celtic 300. Reading and Research**

Catalog Number: 5614

Catherine McKenna 5253 and Tomás Ó Cathasaigh 1224

***Celtic 305. Preparation of Doctoral Dissertation**

Catalog Number: 0375

Catherine McKenna 5253 and Tomás Ó Cathasaigh 1224

Chemical and Physical Biology

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Committee on Degrees in Chemical and Physical Biology

Erin K. O'Shea, Professor of Molecular and Cellular Biology and of Chemistry and Chemical Biology (*Chair and Co-Head Tutor*)

Michael P. Brenner, Glover Professor of Applied Mathematics and Applied Physics, Harvard College Professor, Area Dean for Applied Mathematics

Philippe Cluzel, Professor of Molecular and Cellular Biology and Gordon McKay Professor of Applied Physics

Adam E. Cohen, Assistant Professor of Chemistry and Chemical Biology and of Physics

Michael Manish Desai, Assistant Professor of Organismic and Evolutionary Biology and of Physics

Rachelle Gaudet, Professor of Molecular and Cellular Biology

Stephen C. Harrison, Giovanni Armenise - Harvard Professor of Basic Biomedical Science (*Medical School*)

Daniel E. Kahne, Professor of Chemistry and Chemical Biology (*Co-Head Tutor*)



Richard M. Losick, Maria Moors Cabot Professor of Biology
Andrew W. Murray, Herchel Smith Professor of Molecular Genetics
Daniel Joseph Needleman, Assistant Professor of Applied Physics
Sharad Ramanathan, Assistant Professor of Molecular and Cellular Biology
Pardis Sabeti, Assistant Professor of Organismic and Evolutionary Biology
Alan Saghatelian, Associate Professor of Chemistry and Chemical Biology
Gregory C. Tucci, Senior Lecturer on Chemistry and Chemical Biology

Other Faculty Offering Instruction in Chemical and Physical Biology

A. Thomas Torello, Lecturer on Molecular and Cellular Biology

The Chemical and Physical Biology concentration is overseen by a Standing Committee, which includes representatives from several departments of the Faculty of Arts and Sciences and from other schools as appropriate to ensure the requisite breadth of the program. The Board of Tutors in Biochemical Sciences, which was established in 1926, runs the Tutorial program for the Chemical and Physical Biology concentration and the Molecular and Cellular Biology concentration. The Tutorial program offers individualized instruction to all concentrators beginning at the time of declaration.

The concentration aims to provide students with the background needed to make new advances in the quantitative understanding of living systems. Chemical and physical biology provides a link between classical approaches to studying biology and the chemical tools and physical methods required to understand dynamic changes in complex biological systems. For more information about Chemical and Physical Biology courses and the Life Sciences concentrations, visit www.lifescience.fas.harvard.edu/concentrations/.

Primarily for Undergraduates

***Chemical and Physical Biology 91r. Introduction to Research**

Catalog Number: 9168

A. Thomas Torello

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

Laboratory research in topics related to the CPB concentration under the direction of, or approved by, members of the Board of Tutors in CPB. A paper must be submitted to the laboratory sponsor and to the CPB Student Affairs Office for review by the Head Tutor and Course Director.

Note: Limited to CPB concentrators; written permission of both the tutor and laboratory sponsor must be submitted to the CPB Concentration Office prior to enrolling in the course. Ordinarily may not be taken as a fifth course.

***Chemical and Physical Biology 99. Laboratory Research for Honors Thesis**

Catalog Number: 7918

A. Thomas Torello

Full course (indivisible). Hours to be arranged.

For honors candidates writing a thesis in CPB. Indivisible for students enrolling in the fall term.



Students intending to enroll in the fall are required to submit a written proposal to the Course Director. Students may enter the course at midyear only with the permission of the Course Director. The thesis proposal must be approved by the Course Director and Head Tutors prior to enrolling in CPB 99. Ordinarily may not be taken as a fifth course.

Chemical Biology

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Committee on Higher Degrees in Chemical Biology

David R. Liu, Professor of Chemistry and Chemical Biology, Harvard College Professor (Co-Chair)

Suzanne Walker, Professor of Microbiology and Molecular Genetics (Medical School) (Co-Chair)

Cecile Andree Beguin, Assistant Professor of Psychiatry (Medical School)

Jon Clardy, Hsien Wu and Daisy Yen Wu Professor of Biological Chemistry and Molecular Pharmacology (Medical School)

Ulrike Sophie Eggert, Assistant Professor of Biological Chemistry and Molecular Pharmacology (Medical School)

Nathanael Gray, Assistant Professor of Biological Chemistry and Molecular Pharmacology (Medical School)

Marcia C. Haigis, Assistant Professor of Pathology (Medical School)

Daniel E. Kahne, Professor of Chemistry and Chemical Biology

Alan Saghatelian, Associate Professor of Chemistry and Chemical Biology

Gregory L. Verdine, Erving Professor of Chemistry in the Department of Stem Cell & Regenerative Biology

Primarily for Graduates

[Chemical Biology 207 \(formerly Chemical Biology 2100\). Molecular Approaches to Drug Action, Discovery, and Design](#)

Catalog Number: 4030 Enrollment: May be limited.

Donald M. Coen (Medical School), Nathanael Gray (Medical School), Suzanne Walker (Medical School), and Timothy J. Mitchison (Medical School)

Half course (spring term). W., 3–4:30, Tu., Th., 3:30–5:30.

Application of molecular, systems, and structural biology, genetics, genomics, enzymology, and chemistry to drug action and development of new therapies. Analyzes molecular underpinnings



of pharmacological principles. Examples drawn from diseases including cancer and AIDS.
Note: Offered jointly with the Medical School as BP 715.0. Primarily for graduate students.

***Chemical Biology 2200. Introduction to Chemical Biology**

Catalog Number: 3459 Enrollment: Limited to 10.

James Elliott Bradner and Ralph Mazitschek

Half course (spring term). M., through F., 10am - 5pm (two weeks in mid January).

This course will provide a survey of major topics, technologies, and themes in Chemical Biology, with hands-on exposure to a variety of experimental approaches, followed by an introduction to proposal writing.

Note: Intended for first-year graduate students in the Chemical Biology Program; permission of the instructor required for all others.

Cross-listed Courses

BCMP 200. Molecular Biology

[BCMP 201. Proteins: Structure, Function and Catalysis]

BCMP 207. Molecular Approaches to Drug Action, Discovery, and Design

BCMP 230. Principles and Practice of Drug Development

[Biophysics 101 (Genomics and Computational Biology). Computational Biology]

Cell Biology 201. Molecular Biology of the Cell

***Chemistry 106 (formerly *Chemistry 206). Advanced Organic Chemistry**

***Chemistry 115 (formerly *Chemistry 215). Advanced Organic Chemistry: Synthesis of Complex Molecules**

Chemistry 135. Experimental Synthetic Chemistry

Chemistry 163. Frontiers in Biophysics

***Chemistry 170 (formerly *Chemistry 270). Chemical Biology**

***Chemistry 185 (formerly *Chemistry 285). Human Disease**

Genetics 201. Principles of Genetics

MCB 156. Structural Biology of the Flow of Information in the Cell

Neurobiology 200. Introduction to Neurobiology

Systems Biology 205 (formerly Systems Biology 207). Synthetic Biology

Virology 201. Virology

Graduate Courses of Reading and Research

***Chemical Biology 300hf. Introduction to Chemical Biology Research - (New Course)**

Catalog Number: 95622

David R. Liu 2717 2717 and members of the Committee

Half course (throughout the year). W., 4:15–5:45.

Lectures introduce the research areas of current program faculty in Chemical Biology.

***Chemical Biology 350. Chemical Biology Research**

Catalog Number: 9668

Members of the Committee



Upper level Chemical Biology students register for this course when they permanently join a lab. Students should register under the supervising PI.

***Chemical Biology 370. Advanced Topics in Chemical Biology - (New Course)**

Catalog Number: 74314

David R. Liu 2717 2717

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

A series of reading and discussion seminars, each running for a half term (7 weeks). Two seminars, which can taken in different terms, are required for credit.

***Chemical Biology 399 (formerly *Chemical Biology 3000). Introduction to Laboratory Research**

Catalog Number: 1888

David R. Liu 2717 and members of the Committee

This course is intended for Chemical Biology lab rotations.

Chemical Physics

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Committee on the Degree of Doctor of Philosophy in Chemical Physics

Eric J. Heller, Abbott and James Lawrence Professor of Chemistry and Professor of Physics
(Chair)

Alán Aspuru-Guzik, Associate Professor of Chemistry and Chemical Biology

Adam E. Cohen, Assistant Professor of Chemistry and Chemical Biology and of Physics

John M. Doyle, Professor of Physics (*on leave fall term*)

Roy G. Gordon, Thomas Dudley Cabot Professor of Chemistry

Mikhail D. Lukin, Professor of Physics (*on leave spring term*)

David R. Nelson, Arthur K. Soloman Professor of Biophysics and Professor of Physics and Applied Physics

Eugene I. Shakhnovich, Professor of Chemistry and Chemical Biology

Xiaoliang Sunney Xie, Mallinckrodt Professor of Chemistry and Chemical Biology

Xiaowei Zhuang, Professor of Chemistry and Chemical Biology and of Physics

The degree of Doctor of Philosophy in Chemical Physics is offered to students with undergraduate education in chemistry or physics. It provides a program of study and research in joint areas of physics and chemistry. The Committee in Chemical Physics serves to aid students interested in chemical physics plan their program of graduate studies. The program of research



leading to the PhD may be carried out under the direction of members of the departments of Chemistry, Physics, Astronomy, and the School of Engineering and Applied Sciences who have interests in chemical physics. Specific information may be obtained from any member of the committee and from the Department of Chemistry Information Office.

Chemistry and Chemical Biology

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Department of Chemistry and Chemical Biology

Eric N. Jacobsen, Sheldon Emery Professor of Chemistry (*Chair*)
Joanna Aizenberg, Amy Smith Berylson Professor of Materials Science
James G. Anderson, Philip S. Weld Professor of Atmospheric Chemistry
Alán Aspuru-Guzik, Associate Professor of Chemistry and Chemical Biology
Theodore A. Betley, Assistant Professor of Chemistry and Chemical Biology
Sergio Boixo Castrillo, Lecturer on Chemistry and Chemical Biology
Adam E. Cohen, Assistant Professor of Chemistry and Chemical Biology and of Physics
Conor L. Evans, Lecturer on Chemistry and Chemical Biology
Timothy A. French, Preceptor in Chemistry and Chemical Biology, Lecturer on Chemistry and Chemical Biology
Cynthia M. Friend, Theodore William Richards Professor of Chemistry and Professor of Materials Science
Roy G. Gordon, Thomas Dudley Cabot Professor of Chemistry
Eric J. Heller, Abbott and James Lawrence Professor of Chemistry and Professor of Physics
Daniel E. Kahne, Professor of Chemistry and Chemical Biology (*Co-Director of Undergraduate Studies*)
Eugene Elliott Kwan, College Fellow in Chemistry and Chemical Biology
Charles M. Lieber, Mark Hyman, Jr. Professor of Chemistry
David R. Liu, Professor of Chemistry and Chemical Biology, Harvard College Professor
Sirinya Matchacheep, Preceptor in Chemistry and Chemical Biology
Andrew G. Myers, Amory Houghton Professor of Chemistry and Chemical Biology
Erin K. O'Shea, Professor of Molecular and Cellular Biology and of Chemistry and Chemical Biology
Sang-Joon Pahk, Preceptor in Chemistry and Chemical Biology
Hongkun Park, Professor of Chemistry and Chemical Biology and of Physics
Tobias Ritter, Associate Professor of Chemistry and Chemical Biology
Alan Saghatelian, Associate Professor of Chemistry and Chemical Biology
Stuart L. Schreiber, Morris Loeb Professor of Chemistry



Matthew D. Shair, Professor PF Chemistry and Chemical Biology (*Co-Director of Graduate Studies*)

Eugene I. Shakhnovich, Professor of Chemistry and Chemical Biology

Ryan M. Spoering, Lecturer on Chemistry and Chemical Biology

Marie Colleen Spong, Preceptor in Chemistry and Chemical Biology

Gregory C. Tucci, Senior Lecturer on Chemistry and Chemical Biology (*Co-Director of Undergraduate Studies*)

Mark Adrian Watson, Lecturer on Chemistry and Chemical Biology

George M. Whitesides, Woodford L. and Ann A. Flowers University Professor

Xiaoliang Sunney Xie, Mallinckrodt Professor of Chemistry and Chemical Biology

Xiaowei Zhuang, Professor of Chemistry and Chemical Biology and of Physics

Other Faculty Offering Instruction in the Department of Chemistry and Chemical Biology

Tamara J. Brenner, Lecturer on Molecular and Cellular Biology

David A. Evans, Abbott and James Lawrence Professor of Chemistry, Emeritus

Dudley R. Herschbach, Frank B. Baird, Jr. Professor of Science, Emeritus

John Huth, Donner Professor of Science

Suzanne Walker, Professor of Microbiology and Molecular Genetics (*Medical School*)

Robert A. Lue, Professor of the Practice of Molecular and Cellular Biology

Vinothan N. Manoharan, Associate Professor of Chemical Engineering and of Physics

Logan S. McCarty, Lecturer on Physics, Lecturer on Chemistry and Chemical Biology

Gregory L. Verdine, Erving Professor of Chemistry in the Department of Stem Cell & Regenerative Biology

Incoming students should take advantage of Harvard's Chemistry and Life Sciences Placement Test, as well as the science advising available in the Science Center the week before classes begin. Members of the Life and Physical Sciences departments will be available during this period to advise students. The Harvard Chemistry and Life Sciences Placement Test results recommend the appropriate starting level course for students interested in chemistry: Life and Physical Sciences A, Life Sciences 1a and/or Physical Sciences 1, or Chemistry 17/20.

Life Sciences 1a and Physical Sciences 1 together satisfy the one year general chemistry requirement for medical school.

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 School 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 should consult a member of the Chemistry Department in planning



their first year. Advice may be obtained in the Associate Director of Undergraduate Studies' Office, Science Center 114.

Life and Physical Sciences

Life and Physical Sciences A. Foundational Chemistry and Biology

Catalog Number: 3956

Gregory C. Tucci, Tamara J. Brenner, and Sirinya Matchacheep

Half course (fall term). M., W., F., at 9, and a weekly one-hour of discussion section, three-hour lab, and one-hour of review session. EXAM GROUP: 2

This course introduces fundamental concepts in chemistry and biology. Topics in chemistry include stoichiometry, acids and bases, aqueous solutions, gases, thermochemistry, electrons in atoms, and chemical bonding. Topics in biology include the transfer of information from DNA to RNA to protein, genetic inheritance, mitosis and meiosis, and cell structure.

Note: Students should use their scores on the Chemistry and Biology Placement Tests to determine whether to enroll in Life and Physical Sciences A or Life Sciences 1a. This course assumes fluency with high school algebra. Students who have completed Life Sciences 1a, Physical Sciences 1, Chemistry 17 or Chemistry 20 may not take Life and Physical Sciences A for credit. This course, when taken for a letter grade, meets the General Education Requirement for Science of Living Systems. This course, when taken for a letter grade, meets the Core area requirement for either Science A or Science B, but not both.

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

Catalog Number: 2137

Robert A. Lue, Daniel E. Kahne, and Erin K. O'Shea

Half course (fall term). Tu., Th., 1-2:30, and three hours of laboratory/discussion weekly. EXAM GROUP: 15, 16

What are the fundamental features of living systems? What are the molecules imparting them and how do their chemical properties explain their biological roles? The answers form a basis for understanding the molecules of life, the cell, diseases, and medicines. In contrast with traditional presentations of relevant scientific disciplines in separate courses, we take an integrated approach, presenting chemistry, molecular biology, biochemistry, and cell biology framed within central problems such as the biology of HIV and cancer.

Note: This course, in combination with Life Sciences 1b, constitutes an integrated introduction to the Life Sciences. This course, when taken for a letter grade, meets the General Education requirement in Science of Living Systems or the Core area requirement for Science A.

Physical Sciences 1. Chemical Bonding, Energy, and Reactivity: An Introduction to the Physical Sciences

Catalog Number: 2225

Hongkun Park and Adam E. Cohen

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

This course covers the chemistry and physics underlying molecular phenomena in the world around you. Starting from a single electron, we will build up to atoms, molecules, and materials. We will study interactions of molecules through thermochemistry, equilibria, entropy and free energy, acids and bases, electrochemistry, and kinetics. We will apply these concepts to (1)



world energy demands and global climate change (2) application of physical principles in biology, and (3) modern materials and technology.

Note: This course is part of an integrated introduction to the physical science intended for students who plan to pursue a concentration in the physical or life sciences and/or satisfy pre-medical requirements in Chemistry. May not be counted toward a degree in addition to the former Chemistry 7. Students interested in Physical Sciences 1 should take the Chemistry Placement Exam. This course, when taken for a letter grade, meets the General Education requirement for Science of the Physical Universe or the Core area requirement for Science A.

Prerequisite: A few operations of calculus are developed and used. Fluency in pre-calculus secondary school mathematics is assumed. Students are expected to have AP or honors level high school chemistry, or have completed Life and Physical Sciences A (LPS A) with a satisfactory grade.

Physical Sciences 2. Mechanics, Elasticity, Fluids, and Diffusion

Catalog Number: 6053

Logan S. McCarty and Vinodhan N. Manoharan

Half course (fall term). Tu., Th., 9:30-11, and a weekly section and lab to be arranged. EXAM GROUP: 11, 12

An introduction to classical mechanics, with special emphasis on the motion of organisms in fluids. Topics covered include: kinematics, Newton's laws of motion, oscillations, elasticity, random walks, diffusion, and fluids. Examples and problem set questions will be drawn from the life sciences and medicine.

Note: This course, when taken for a letter grade, meets the General Education requirement for Science of the Physical Universe or Empirical and Mathematical Reasoning, but not both. This course, when taken for a letter grade, meets the Core area requirement for Science A.

Prerequisite: Physical Sciences 1 (or Chemistry 7), Mathematics 1b, or the equivalent.

Physical Sciences 3. Electromagnetism, Circuits, Waves, Optics, and Imaging

Catalog Number: 5262

John Huth and Logan S. McCarty

Half course (spring term). Tu., Th., 9:30-11, and a weekly section and lab to be arranged. EXAM GROUP: 11, 12

This course is an introduction to electromagnetism, digital information, waves, optics and sound. Topics covered include: electric and magnetic fields, electrical potential, circuits, simple digital circuits, wave propagation in various media, microscopy, sound and hearing. The course will draw upon a variety of applications to the biological sciences and will use real-world examples to illustrate many of the physical principles described. There are six laboratories.

Note: This course is part of an integrated introduction to the physical sciences intended for students who plan to pursue a concentration in the life sciences and/or satisfy pre-medical requirements in Physics. May not ordinarily be taken for credit in addition to Physics 1b, 11b, or 15b. This course, when taken for a letter grade, meets the General Education requirement for Science of the Physical Universe or Empirical and Mathematical Reasoning, but not both. This course, when taken for a letter grade, meets the Core area requirement for Science A.

Prerequisite: Physical Sciences 2 (or Physics 1a or 11a), Mathematics 1b, or equivalent.

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 Associate Director of Undergraduate Studies' Office, Science Center 114.

Chemistry 17. Principles of Organic Chemistry

Catalog Number: 5085

Eric N. Jacobsen

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

An introduction to organic chemistry, with an emphasis on reaction mechanisms, and discussion of chemical reactivity, structure and bonding, and principles of organic synthesis.

Note: The Chemistry 17/27 sequence is intended primarily for students in the life sciences, who have completed LS22a and PS1. The Chemistry 20/30 sequence is intended primarily for students planning a concentration in Chemistry or the physical sciences. Either sequence satisfies the organic chemistry requirement for medical school. Students may not count both Chemistry 17 and Chemistry 20 for degree credit. On the other hand, Chemistry 27 and Chemistry 30 cover different material, so students may choose to take both courses for degree credit; students should ordinarily take the third half course only after completing either the 17/27 or 20/30 sequence.

This course, when taken for a letter grade, meets the Core area requirement for Science A.

Prerequisite: Open to freshmen with a score of 750 or higher in the College Boards or the Chemistry Placement Examination; to students who scored 4 or 5 on the Chemistry Advanced Placement Examination; and to students who achieved a grade of B or higher in either Physical Sciences 1 or another college-level introductory chemistry course. Others may enter only by permission of the instructor.

Chemistry 20. Organic Chemistry

Catalog Number: 0876

Ryan M. Spoering

Half course (spring term). M., W., F., at 9, a one-hour weekly discussion section, and five-hour bi-weekly lab section to be arranged. EXAM GROUP: 2

An introduction to structure and bonding in organic molecules; mechanisms of organic reactions; chemical transformations of the functional groups of organic chemistry; synthesis; determination of chemical structures: infrared and NMR spectroscopy.

Note: Chemistry 20/30 is an integrated two-semester sequences that prepares students to study chemical and other physical sciences, whereas the Chemistry 17/27 sequence focuses on application of organic chemistry concepts to the life sciences. Either sequence satisfies the organic chemistry requirement for medical school and the chemistry concentration. The content of Chemistry 17 is accelerated and overlaps with topics from both Chemistry 20 and 30. Students may not count both Chemistry 17 and 20 toward the degree. However, Chemistry 27 and Chemistry 20/30 cover different material, so students may choose to take Chemistry 27 after completing the 20/30 sequence. This course, when taken for a letter grade, meets the Core area requirement for Science A.

Prerequisite: Open to students who scored 4 or 5 on the Chemistry Advanced Placement Examination, or who earned an A or A- grade in Life Sciences 1A or Life and Physical Sciences A. Others must contact the instructor to discuss their preparation and obtain permission.

**Chemistry 27. Organic Chemistry of Life**

Catalog Number: 5978

George M. Whitesides

Half course (spring term). M., W., 2:30-4, and a weekly section and five-hour laboratory to be arranged. EXAM GROUP: 7, 8

Chemical principles that govern the processes driving living systems are illustrated with examples drawn from biochemistry, cell biology, and medicine. The course deals with organic chemical reactivity (reaction mechanisms, structure-reactivity relationships), with matters specifically relevant to the life sciences (chemistry of proteins, nucleic acids, drugs, natural products, cofactors, signal transduction), and with applications of chemical biology to medicine and biotechnology. An understanding of organic reactions and their "arrow" pushing mechanisms is required.

Note: Chemistry 27 and 30 may both be taken for degree credit. See note for Chemistry 17. This course, when taken for a letter grade, meets the General Education requirement for Science of Living Systems or the Core area requirement for Science A.

Prerequisite: Chemistry 17 or Chemistry 30 or Chemistry 20 with permission of the instructor.

Chemistry 30. Organic Chemistry

Catalog Number: 6587

Andrew G. Myers

Half course (fall term). Lectures M., W., F., at 9, and laboratory, four to six hours a week, to be arranged. EXAM GROUP: 2

Continuation of Chemistry 20. Fundamental principles and advanced topics in organic chemistry. Carbonyl chemistry and pericyclic reactions are covered in particular detail, using principles of stereochemistry, stereoelectronic theory, and molecular orbital theory as a foundation. Students learn about strategies in multi-step organic synthesis and are given an introduction into organometallic chemistry. Laboratory: an introduction to organic chemistry laboratory techniques and experimental organic synthesis.

Note: Chemistry 27 and 30 may both be taken for degree credit. See note for Chemistry 17. This course, when taken for a letter grade, meets the Core area requirement for Science A.

Prerequisite: Chemistry 20 or equivalent.

Chemistry 40. Inorganic Chemistry

Catalog Number: 8201

Theodore A. Betley

Half course (spring term). M., W., F., at 9. EXAM GROUP: 2

An introduction to basic concepts of inorganic chemistry. Develops principles of chemical bonding and molecular structure on a basis of symmetry, applying these concepts to coordination chemistry (highlighting synthesis), organometallic chemistry (applications to catalysis), materials synthesis, and bioinorganic processes.

Prerequisite: Chemistry 17 or 20.

[Chemistry 60. Foundations of Physical Chemistry]

Catalog Number: 5181

Roy G. Gordon

Half course (spring term). Tu., Th., 11:30-1.



A compact introduction to major principles of physical chemistry (statistical mechanics, thermodynamics, and chemical kinetics), concurrently providing mathematical and physical foundations for these subjects and preparation for Chemistry 160 and 161, or Chemistry 105.

Note: Expected to be given in 2011–12.

Prerequisite: Physical Sciences 1 or equivalent; completion or concurrent enrollment in Mathematics 21a or Applied Mathematics 21a; completion or concurrent enrollment in Physics 11a or equivalent.

***Chemistry 91r. Introduction to Research**

Catalog Number: 4366

Gregory C. Tucci and members of the Department

Half course (fall term; repeated spring term). Spring: Tu., Th., at 1.

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 Associate Director of Undergraduate Studies in Chemistry. Any student enrolling in this course must register the name of his or her research mentor with the course head whose signature must appear on each student's study card.

***Chemistry 98r. Introduction to Research—Junior Year**

Catalog Number: 3124

Gregory C. Tucci and members of the Department

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

Research under the direction of, or approved by, a member of the faculty of the Department of Chemistry.

Note: Open with permission of the instructor to junior chemistry majors who have satisfactorily completed the non-credit Introduction to Research Tutorial in the spring term of the sophomore year. In that non-credit spring term tutorial, taught Tu., Th., 1-2:30, students will attend introductory lectures and research seminars in order to acquaint themselves with departmental research programs. In the junior year, students who complete the non-credit tutorial and obtain placement in a research laboratory will undertake research as Chemistry 98r. Written permission of the research adviser must be filed at the office of the Associate Director of Undergraduate Studies in Chemistry. Any student enrolling in this course must register the name of his or her research mentor with the course head whose signature must appear on each student's study card.

***Chemistry 99r. Tutorial—Senior Year**

Catalog Number: 4508

Gregory C. Tucci and members of the Department

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

Research under the direction of, or approved by, a member of the faculty of the Department of Chemistry.

Note: Open to seniors accredited by the Department as honors candidates. Students enrolled in Chem 99r have the option of writing a thesis. Written permission of the research adviser must be filed at the office of the Associate Director of Undergraduate Studies in Chemistry. Any student



enrolling in this course must register the name of his or her research mentor with the course head whose signature must appear on each student's study card.

Cross-listed Courses

***Freshman Seminar 22j. Seeing by Spectroscopy**
Life Sciences 1b. An Integrated Introduction to the Life Sciences: Genetics, Genomics, and Evolution
MCB 52. Molecular Biology

For Undergraduates and Graduates

***Chemistry 100. Experimental Chemistry and Chemical Biology**

Catalog Number: 7796

Ryan M. Spoering

Half course (fall term; repeated spring term). Fall: Th., 4, and two five-hour labs each week; Spring: M., 4, and two five-hour labs each week. EXAM GROUP: Fall: 18; Spring: 9

A laboratory course where students carry out research. Projects will be drawn directly from faculty covering a range of methodologies in chemistry and chemical biology. Students will discuss their progress and write formal reports.

Note: Open to freshmen, sophomores, juniors, and seniors, regardless of concentration, and suitable for students either with or without extensive laboratory experience.

Prerequisite: Chemistry 30 or Chemistry 27, and permission of the instructor.

Chemistry 101 (formerly Chemistry 201). Organic Synthesis Towards a Genomic Medicine

Catalog Number: 7505

Stuart L. Schreiber

Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

Organic Synthesis Towards a Genomic Medicine teaches advanced students in chemistry and chemical biology: 1) the principles that underlie modern organic synthesis, chemical biology and genome biology, and 2) the resulting development of a new interdisciplinary field -- genomic medicine. Genomic medicine aims to understand human biology and to transform human health by using small molecules that target the root causes of disease. For example, the course will explore how organic synthesis is enabling patient-based drug discovery, where genetic signatures of disease are related to drug sensitivity in the context of cancer, diabetes, infectious disease and psychiatric disease, among others.

Prerequisite: Chemistry 17/27, Chemistry 20/30, or the equivalent

***Chemistry 106 (formerly *Chemistry 206). Advanced Organic Chemistry**

Catalog Number: 1063

Eugene Elliott Kwan

Half course (fall term). M., W., F., at 10. EXAM GROUP: 3

This course will survey modern organic chemistry from a fundamental perspective. The foundations of structure and bonding, donor-acceptor interactions, and conformational analysis will be considered in the context of pericyclic reactions and cyclic and acyclic stereocontrol. The behavior of reactive intermediates, the basis for enantioselective catalysis, and patterns in



functional group reactivity will also be discussed.

Prerequisite: Chemistry 30 or permission of instructor.

***Chemistry 115 (formerly *Chemistry 215). Advanced Organic Chemistry: Synthesis of Complex Molecules**

Catalog Number: 0480

Matthew D. Shair

Half course (spring 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: A grade of A in Chemistry 30.

Chemistry 117 (formerly Chemistry 217). Practical NMR Spectroscopy

Catalog Number: 1061

Eugene Elliott Kwan

Half course (spring term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16

This course examines the application of modern NMR spectroscopic techniques to the structural elucidation of small molecules. Both the practical and theoretical aspects of 1D and 2D NMR experiments will be explored. Topics include: the chemical shift; coupling constants; the nuclear Overhauser effect and relaxation; chemical exchange; 2D homonuclear and heteronuclear correlation; analysis of complex molecules with overlapping signals and data tabulation; analysis of reactive intermediates; kinetics by NMR; the Fourier transform; quadrature detection; phase-sensitive detection; the vector model; the density matrix and the product operator formalism; pulsed field gradients; and spectrometer instrumentation.

Prerequisite: Chem 17/27 or 20/30 or equivalent. The course is designed for organic chemists who do not have an extensive math or physics background. In fact, no prior knowledge of NMR spectroscopy is assumed. It is suitable for both undergraduate and graduate students.

Chemistry 135. Experimental Synthetic Chemistry

Catalog Number: 3406

Ryan M. Spoering

Half course (spring term). One weekly eight-hour lab Tu., 2-10pm or W., 1-9pm.

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, encouraging technical proficiency and simulating actual research.

Note: Preference given to concentrators in Chemistry. 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 98r and 99r.

Chemistry 153. Organotransition Metal Chemistry - (New Course)

Catalog Number: 27616

Tobias Ritter

Half course (fall term). Tu., Th., 2:30–4. EXAM GROUP: 17, 18



An introduction to transition metal-mediated chemistry. Topics include organometallic reaction mechanisms and transition metal catalysis in synthesis.

Note: Primarily for graduate students and advanced undergraduates in chemistry.

Chemistry 158. Nanoscience and Nanotechnology

Catalog Number: 7504

Charles M. Lieber

Half course (spring term). Tu., Th., at 2. EXAM GROUP: 16

A survey of nanoscience and nanotechnology. Topics include: bottom-up versus top-down paradigms; synthesis and fabrication of zero-, one- and two-dimensional materials; physical properties of nanostructures, including electronic and optical properties; hierarchical organization in two and three dimensions; functional devices circuits and nanosystems; applications with emphasis on nano-bio interface and electronics.

Note: For advanced undergraduate and graduate students.

Prerequisite: Chemistry 40, or equivalent.

Chemistry 160. Physical Chemistry

Catalog Number: 3420

Alán Aspuru-Guzik

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. The course will offer an introduction to the practical aspects of modern computational quantum chemistry methods such as density functional theory.

Prerequisite: Applied Mathematics 21a and 21b, Mathematics 21a and 21b, or equivalent preparation in calculus and differential equations; Physical Sciences 1 or equivalent preparation in chemical bonding and fundamental principles; Physical Sciences 2 or Physics 11a, and Physical Sciences 3 or Physics 11b.

Chemistry 161. Statistical Thermodynamics

Catalog Number: 3575

Xiaowei Zhuang

Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

An introduction to statistical mechanics, thermodynamics, and chemical kinetics with applications to problems in chemistry and biology.

Prerequisite: Chemistry 160 and Applied Mathematics 21a, or equivalent. Or permission of instructor.

Chemistry 163. Frontiers in Biophysics

Catalog Number: 3635

Xiaoliang Sunney Xie

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

Emerging physical tools are changing the way biological problems are addressed. This interdisciplinary course will introduce new experimental advances, microscopy and spectroscopy in particular, together with underlying principles, in molecular and cellular biophysics.

Note: Primarily for advanced undergraduate students and graduate students with either biological



or physical backgrounds.

Prerequisite: Chemistry 160, Chemistry 161, or permission of the instructor.

***Chemistry 165. Experimental Physical Chemistry**

Catalog Number: 0667

Cynthia M. Friend, Conor L. Evans, and Timothy A. French

Half course (spring term). Tu., 3-4, and sections on Th., 1-5, or 6-10 pm. EXAM GROUP: 17

Hands-on introduction to physical methods and techniques used widely in chemistry and chemical physics research laboratories. Computer-based methods of data acquisition and analysis are used throughout.

Note: Recommended as an efficient preparation for research in experimental chemistry, chemical physics, engineering sciences, and related disciplines.

Prerequisite: Chemistry 7, or Physical Sciences 1, or equivalent; Applied Mathematics 21a or Mathematics 21a; one full course in physics or equivalent.

***Chemistry 170 (formerly *Chemistry 270). Chemical Biology**

Catalog Number: 7754

Alan Saghatelian

Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16

Applying chemical approaches to problems in biology. Topics include: protein engineering and directed evolution; RNA catalysis and gene regulation; chemical genetics, genomics, and proteomics; drug action and resistance; rational and combinatorial approaches to drug discovery; metabolic engineering.

Prerequisite: A strong background in organic chemistry and biochemistry.

***Chemistry 185 (formerly *Chemistry 285). Human Disease**

Catalog Number: 4005

Gregory L. Verdine

Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

This course will address both the molecular basis of human disease, and the biological and chemical foundation of therapeutic intervention. The course will include lectures by prominent experts, and analysis of the primary literature.

Note: May not be taken concurrently with MCB 185. May not be taken for credit if MCB 185 or Chem 285 has already been taken. Credit can not also be received for MCB 185.

Prerequisite: Chemistry 20/30 or 17/27, Life Sciences 52 or their equivalents.

Cross-listed Courses

[Earth and Planetary Sciences 107. Environmental Geochemistry]

Earth and Planetary Sciences 133. Atmospheric Chemistry

Earth and Planetary Sciences 135. Physics and Chemistry: In the Context of Energy and Climate at the Global and Molecular Level - (New Course)

Earth and Planetary Sciences 187 (formerly Earth and Planetary Sciences 137). Low Temperature Geochemistry II: Modern and ancient biogeochemical processes

MCB 176. Biochemistry of Membranes

MCB 199. Statistical Thermodynamics and Quantitative Biology

***Primarily for Graduates*****[Chemistry 205. Advanced Physical Organic Chemistry]**

Catalog Number: 6636

*Eric N. Jacobsen**Half course (spring term). Tu., Th., 10–11:30.*

An in-depth perspective on mechanistic organic chemistry, with analysis of fundamental organic and organotransition metal reaction mechanisms, reactive intermediates, catalysis, stereochemistry, non-covalent interactions, and molecular recognition. Classical and modern tools of physical-organic chemistry, including reaction kinetics, computer modeling, isotope effects, and linear free-energy relationships will be evaluated in the context of literature case studies.

Note: Expected to be given in 2011–12.*Prerequisite:* Chem 206 or an equivalent upper-level course in organic chemistry, and Chem 160/161 or an equivalent sequence in physical chemistry; or permission of the instructor.**[Chemistry 207. Advanced Organic Synthesis and Reactions]**

Catalog Number: 86638

*Matthew D. Shair**Half course (fall term). M., W., F., at 10.*

This course presents reactivity principles of organic molecules. Topics include frontier molecular orbital theory, stereoelectronic effects, conformational analysis, cationic, anionic, radical, and carbene intermediates. These reactivity principles are used in a presentation of target-oriented synthesis. Strategies and tactics for assembling complex organic molecules are presented.

Note: Expected to be given in 2011–12.*Prerequisite:* Undergraduates must take Chem 30 as a prerequisite.***Chemistry 240. Statistical Thermodynamics**

Catalog Number: 5215

*Eugene I. Shakhnovich**Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

An introduction to statistical mechanics, thermodynamics, and chemical kinetics with strong emphasis on applications to problems in chemistry and biology. Topics include: thermodynamics and statistical properties of gases, liquids and crystals, critical phenomena, elements of non-equilibrium statistical mechanics with applications to Chemistry and Biophysics such as theories for biopolymers and chemical reactions.

Prerequisite: Chemistry 160 and Chemistry 161, or permission of instructor.***Chemistry 242. Quantum Mechanics for Physical Chemistry**

Catalog Number: 2971

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

Review of the fundamental principles of quantum mechanics: Hilbert spaces, operator algebra, Schrodinger, Heisenberg and interaction pictures. Approximate methods of solution of the Schrodinger equation: Perturbation, mean-field theories and the variational principle. Theory of chemical bonding: Effective Hamiltonian theories and molecular orbital theory. Symmetry and



spectroscopy: Electronic, vibrational and NMR spectroscopy. Time-dependent quantum phenomena and its applications to chemical reaction dynamics: transition state theory and Marcus theory of electron transfer. Theory and applications of modern molecular electronic structure: Hartree Fock theory, density functional theory and Moller-Plesset Perturbation theory. *Prerequisite:* Chemistry 160 or Physics 143, Physics 11 or 12, and Applied Mathematics 105a and 105b, or Mathematics 21, or equivalent.

***Chemistry 243. Applied Quantum Mechanics**

Catalog Number: 3622

Sergio Boixo Castrillo and Mark Adrian Watson

Half course (spring term). M., W., 2–3:30.

The course will cover the application of quantum mechanical principles to contemporary problems in chemistry and physics. The topics covered in the course will include: chemical bonding and the Born-Oppenheimer Approximation, atom/molecule-photon interaction (including second quantization and the dressed-state approach), Quantum Optics, and solid-state and nano-science (band theory, Fermi liquid theory, and electron transport).

Note: Intended for graduate and advanced undergraduate students in chemistry, physics, and applied physics.

Prerequisite: Two semesters of quantum mechanics (Chemistry 160 / Chemistry 242, or Physics 143a / 143b, or equivalent).

[Chemistry 254. Advanced Inorganic Chemistry]

Catalog Number: 32665

Theodore A. Betley

Half course (spring term). M., W., F., at 10.

Application of group theory towards understanding reactivity patterns in transition element chemistry with an emphasis on synthesis, structure, bonding, and reaction mechanisms. Advanced problems of interest to inorganic chemistry will be discussed in the context of catalysis, organometallics, and bioinorganic processes.

Note: Expected to be given in 2011–12.

Chemistry 267. Surface and Interfacial Phenomena

Catalog Number: 0571

Cynthia M. Friend

Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

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 absorption, reaction, and growth phenomena illustrated through current literature topics.

Note: Recommended for graduate and advanced undergraduate students in Chemistry, Applied Physics, and related areas with interest in Materials Chemistry and Engineering, Surface Chemistry, Applied Physics, and other areas dependent on properties and behavior of interfaces.

Prerequisite: Chemistry 160 and 161 or equivalent; Applied Mathematics 21a or Mathematics 21a; one full course in physics or equivalent.



Cross-listed Courses

[Applied Physics 291. Electron Microscopy Laboratory](#)
[Biophysics 242r. Special Topics in Biophysics](#)
[Earth and Planetary Sciences 200. Atmospheric Chemistry and Physics](#)
[\[Engineering Sciences 268. Environmental Chemical Kinetics\]](#)

Graduate Courses of Reading and Research

A student intending to elect one of the following research courses should consult the instructor as far in advance as possible.

***Chemistry 300. Research and Reading**

Catalog Number: 6307

Members of the Department

Individual work under the supervision of members of the Department.

***Chemistry 301hf. Scientific Teaching and Communications: Practicum**

Catalog Number: 9903

Matthew D. Shair 2280, Ryan M. Spoering 5625, and Gregory C. Tucci 5020

Half course (throughout the year). Tu., 4–6. EXAM GROUP: 18

This course will teach graduate students how to communicate scientific concepts in the classroom. Students will focus on becoming effective teachers in discussion sections and in the laboratory. The course will emphasize hands-on experience in teaching and explaining scientific concepts.

Note: Required of all first-year graduate students in the Department of Chemistry and Chemical Biology.

***Chemistry 302. Organometallic Chemistry**

Catalog Number: 1413

Eric N. Jacobsen 1040

***Chemistry 303. Organic Chemistry**

Catalog Number: 1043

David A. Evans 7774

***Chemistry 304. Theoretical Atomic, Molecular, and Chemical Physics**

Catalog Number: 0532

Eric J. Heller 1074

***Chemistry 311. Physical Chemistry**

Catalog Number: 2640

Charles M. Lieber 3102



***Chemistry 315. Photochemistry and Kinetics**

Catalog Number: 5964
James G. Anderson 6057

***Chemistry 318. Organic Chemistry**

Catalog Number: 4295
George M. Whitesides 7447

***Chemistry 323. Organic Chemistry**

Catalog Number: 2477
Stuart L. Schreiber 2166

***Chemistry 325. Physical Chemistry**

Catalog Number: 8530
Cynthia M. Friend 7446

***Chemistry 330. Physical Chemistry**

Catalog Number: 1454
Adam E. Cohen 5761

***Chemistry 331. Approaches Toward Understanding and Treating Human Disease**

Catalog Number: 1408
Gregory L. Verdine 1980

***Chemistry 336. Physical and Inorganic Chemistry and Materials Science**

Catalog Number: 5266
Roy G. Gordon 1353

***Chemistry 340. Inorganic Chemistry**

Catalog Number: 7987
Theodore A. Betley 5760

***Chemistry 350. Theoretical Physical Chemistry**

Catalog Number: 8285
Eugene I. Shakhnovich 3147

***Chemistry 386. Theoretical Chemistry**

Catalog Number: 5300
Alán Aspuru-Guzik 5539

***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 393. Physical Chemistry**

Catalog Number: 1273

Xiaowei Zhuang 3991

***Chemistry 394. Chemical Biology and Proteomics**

Catalog Number: 8697

Gavin MacBeath 4347

***Chemistry 396. Organic Chemistry**

Catalog Number: 2293

Daniel E. Kahne 5065

***Chemistry 397. Organic Chemistry**

Catalog Number: 3972

Suzanne Walker (Medical School) 5087

***Chemistry 398. Organic and Organometallic Chemistry**

Catalog Number: 1013

Tobias Ritter 5540

***Chemistry 399. Biochemistry and Chemical Biology**

Catalog Number: 4050

Alan Saghatelian 5541



The Classics

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Department of the Classics

John Duffy, Dumbarton Oaks Professor of Byzantine Philology and Literature (*Chair*)
Carmen Arnold-Biucchi, Lecturer on the Classics
Kathleen M. Coleman, James Loeb Professor of the Classics
Emma Dench, Professor of the Classics and of History, Harvard College Professor (*Director of Graduate Studies*)
David F. Elmer, Assistant Professor of the Classics (*on leave spring term*)
Albert Henrichs, Eliot Professor of Greek Literature
Sean R. Jensen, College Fellow in the Department of the Classics
Christopher B. Krebs, Associate Professor of the Classics (*on leave fall term*)
Ivy Livingston, Preceptor in the Classics
Gregory Nagy, Francis Jones Professor of Classical Greek Literature and Professor of Comparative Literature
Vassiliki Rapti, Preceptor in Modern Greek
Jeremy Rau, Professor of Linguistics and of the Classics
Panagiotis Roilos, Professor of Modern Greek Studies and of Comparative Literature
Mark Schiefsky, Professor of the Classics (*Director of Undergraduate Studies*)
Adrian Staehli, Professor of Classical Archaeology
Gisela Striker, Walter C. Klein Professor of Philosophy and of the Classics (*on leave spring term*)
R. J. Tarrant, Pope Professor of the Latin Language and Literature
Richard F. Thomas, George Martin Lane Professor of the Classics, Harvard College Professor (*on leave spring term*)
Andreas Thomas Zanker, College Fellow in the Department of the Classics
Jan Ziolkowski, Arthur Kingsley Porter Professor of Medieval Latin

Other Faculty Offering Instruction in the Department of the Classics

Shaye J.d. Cohen, Nathan Littauer Professor of Hebrew Literature and Philosophy
James Hankins, Professor of History
Christopher P. Jones, George Martin Lane Professor of the Classics and of History, Emeritus
Gloria Ferrari Pinney, Professor of Classical Archaeology and Art, Emeritus

Information about requirements for undergraduate and graduate degrees, honors, prizes, and



scholarships may be obtained at the office of the Department, Boylston Hall 204. Graduate students in the Faculty of Arts and Sciences may enroll in certain foreign language courses for the grade of Satisfactory/Unsatisfactory. Students should consult with course heads or the department's website (www.fas.harvard.edu/~classics) to determine if a course is offered on that basis.

Courses in Translation

Primarily for Undergraduates

***Classical Studies 97a (formerly *Classics 97a). Greek Culture and Civilization**

Catalog Number: 3965

Sean R. Jensen

Half course (fall term). M., W., F., at 2. EXAM GROUP: 7

This course offers a survey of Greek history and culture from its earliest manifestations until Roman expansion incorporated a vast portion of the Greek world within imperial borders. It also teaches students how to reconstruct Greek history by examining primary texts and material culture in ways that prioritize Greek social relationships and cultural norms as much as political developments.

Note: Concentrators are required to take either one or two semesters of Classical Studies 97, depending on their concentration track.

Classical Studies 97b (formerly *Classics 97b). Roman Culture and Civilization

Catalog Number: 4090

Kathleen M. Coleman

Half course (spring term). M., W., F., at 11. EXAM GROUP: 4

A chronological survey of Roman history from the beginnings to Constantine will be combined with exploration of key features of Roman culture, including housing, education, slavery, the role of women, etc. Attention will also be paid to the tools and methods available for research on ancient Rome.

Note: Concentrators are required to take either one or two semesters of Classical Studies 97, depending on their concentration track. This course, when taken for a letter grade, meets the Core area requirement for Historical Study B.

For Undergraduates and Graduates

Classical Studies 111. The Hellenistic Age in the Greek World - (New Course)

Catalog Number: 40018

Sean R. Jensen

Half course (spring term). Tu., Th., at 1. EXAM GROUP: 15

This course provides an introduction to the history and culture of the Hellenistic period in the Eastern Mediterranean and Near East ca. 323-31 B.C.E. Emphasis will be on the development of the major Hellenistic kingdoms, fate of the classical city-state, and spread of Hellenic culture. Students will also be introduced to the study of the important literary, epigraphic, and archaeological evidence.



Classical Studies 127. Literature and Politics at Rome between Republic and Principate - (New Course)

Catalog Number: 58621

Andreas Thomas Zanker

Half course (fall term). Tu., Th., at 12. EXAM GROUP: 14

This course will consider a variety of outstanding texts issuing from a time of great turbulence at Rome. We shall pay special attention to literary responses to the civil wars, the collapse of the Republic, and the advent of Augustus; one important subsidiary focus will be the relationship between authors and the new center of power in the city.

[Classical Studies 165. Ancient Medicine]

Catalog Number: 2851

Mark Schiefsky

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

Theories and practices of health and healing in the ancient Greco-Roman world, with special emphasis on the relationship of learned medicine to philosophy and other healing traditions.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Historical Study B.

Primarily for Graduates

Classical Studies 241. The Athenian Empire - (New Course)

Catalog Number: 24911

Sean R. Jensen

Half course (fall term). Th., 4–6.

This graduate seminar offers an in-depth study of the Athenian-led Delian League/Empire.

Special attention will be devoted to the origins of the alliance, tribute system, and main features of Athenian hegemony.

Cross-listed Courses

Aesthetic and Interpretive Understanding 21 (formerly Literature and Arts A-51). Virgil: Poetry and Reception

Aesthetic and Interpretive Understanding 33 (formerly Classical Studies 154). Ancient Fictions: The Ancient Novel in Context

[Comparative Literature 251. Literary Criticism and Theory: Antiquity to the Renaissance]

Culture and Belief 17 (formerly Historical Studies B-06). Institutional Violence and Public Spectacle: The Case of the Roman Games

Culture and Belief 22. The Heroic and the Anti-Heroic in Classical Greek Civilization

[Culture and Belief 35. Classical Mythology]

Culture and Belief 44. The Cradle of History: Ancient Historians and their Afterlives - (New Course)

Egyptian Aa. The Language of the Pharaohs: Introduction to Egyptian hieroglyphs I - (New Course)

Egyptian Ab. The Language of the Pharaohs: Introduction to Egyptian hieroglyphs II -



[\(New Course\)](#)

[*History 70f. Rule in Classical Antiquity]

[*History 80a \(formerly *History 1051\). Roman Imperialism](#)

[History 1011. The World of the Roman Empire]

[History 1012. Identity in Classical Antiquity - \(New Course\)](#)

[*History 2052. Rome and China \(Graduate Seminar in General Education\) - \(New Course\)](#)

[History of Science 106. History of Ancient Science](#)

[*History of Science 206r. Physical Atomism in Antiquity: Epicurus and Lucretius: Seminar](#)

[*History of Science 207r. Late Medieval and Early Modern Atomism: Seminar - (New Course)]

[Jewish Studies 136. Jews and Greeks, Judaism and Hellenism - \(New Course\)](#)

[Philosophy 109. Aristotle's Ethics and Politics](#)

[Societies of the World 16 \(formerly Literature and Arts C-61\). The Rome of Augustus](#)

Courses of Reading and Research

Primarily for Undergraduates

[*Classics 93r. Advanced Tutorial for Credit](#)

Catalog Number: 0511

Mark Schiefsky

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 98. Tutorial - Junior Year](#)

Catalog Number: 31083

Mark Schiefsky and assistants

Half course (fall term; repeated spring term). Fall: Tu., 2–4; Tu., 2–4; Spring: Tu., 2–4.

Close study of a topic in Greco-Roman civilization and/or literature, culminating in the preparation of a substantial research paper (ca. 20 pages).

Note: Required of all concentrators in the junior year.

[*Classics 99. Tutorial — Senior Year](#)

Catalog Number: 2350

Mark Schiefsky

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.

Primarily for Graduates



***Classics 300. Direction of Doctoral Dissertations**

Catalog Number: 4543

Kathleen M. Coleman 2289, Emma Dench 5243, John Duffy 1352, Susanne Ebbinghaus 5184, David F. Elmer 5574 (on leave spring term), Albert Henrichs 4085, Christopher P. Jones 3204, Christopher B. Krebs 4877 (on leave fall term), Nino Luraghi 2408, Gregory Nagy 1423, Gloria Ferrari Pinney 1384, Jeremy Rau 4657, Panagiotis Roilos 1982, Mark Schiefsky 2354, Francesca Schironi 4878, Adrian Staehli 6796 (spring term only), Gisela Striker 2271 (on leave spring term), R. J. Tarrant 7503, Richard F. Thomas 1630 (on leave spring term), and Jan Ziolkowski 7275

***Classics 301. Reading or Topics Course**

Catalog Number: 3457

Kathleen M. Coleman 2289, Emma Dench 5243, John Duffy 1352, David F. Elmer 5574 (on leave spring term), Albert Henrichs 4085, Christopher P. Jones 3204, Christopher B. Krebs 4877 (on leave fall term), Gregory Nagy 1423, Jeremy Rau 4657, Panagiotis Roilos 1982, Mark Schiefsky 2354, Francesca Schironi 4878, Adrian Staehli 6796 (spring term only), Gisela Striker 2271 (on leave spring term), R. J. Tarrant 7503, Richard F. Thomas 1630 (on leave spring term), 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

Shaye J.d. Cohen 4180, Kathleen M. Coleman 2289, Emma Dench 5243, John Duffy 1352, Susanne Ebbinghaus 5184, David F. Elmer 5574 (on leave spring term), James Hankins 1239, Albert Henrichs 4085, Christopher P. Jones 3204, Christopher B. Krebs 4877 (on leave fall term), Nino Luraghi 2408, Gregory Nagy 1423, Jeremy Rau 4657, Panagiotis Roilos 1982, Mark Schiefsky 2354, Francesca Schironi 4878, Adrian Staehli 6796 (spring term only), Gisela Striker 2271 (on leave spring term), R. J. Tarrant 7503, Richard F. Thomas 1630 (on leave spring term), and Jan Ziolkowski 7275

***Classics 350. Classical Philology: Proseminar**

Catalog Number: 4026

Emma Dench 5243

Half course (fall term). M., 2–4.

Designed to introduce graduate students in Classical Philology to the essential fields, tools, and methodologies of the discipline.

Note: For first-year students working toward the PhD in Classical Philology. Open to other students by permission of instructor.

Greek

Students who have studied classical Greek previously should register at the FAS Exams Office (Office of the Registrar, 20 Garden Street) 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 Language Preceptor (Boylston Hall 225).



Primarily for Undergraduates

Greek Aa (formerly Greek A). Beginning Greek

Catalog Number: 0129

Ivy Livingston and assistant

Half course (fall term). M., W. through F., at 9. EXAM GROUP: 2, 11

For students with very little or no previous instruction in Greek. Introduction to Greek grammar and reading of sentences and short passages.

Note: No auditors. May be taken pass/fail. Students with more than one year of formal instruction should take the Harvard placement test in Greek during Freshman Week and consult with the Course Head before enrolling.

Greek Aab. Beginning Greek (Intensive)

Catalog Number: 0714

Ivy Livingston and assistants

Full course (spring term). M. through F., at 9, M., at 1. EXAM GROUP: 2, 6, 11

For students with little or no previous instruction in Greek who are seriously interested in making very rapid progress. All basic grammar of the normal first-year sequence (Greek Aa and Ab) and practice in reading prose. Students are prepared for Greek Ba or Bb.

Note: No auditors. May be taken pass/fail. Students with more than one year of formal instruction should take the Harvard placement test in Greek during Freshman Week and consult with the Course Head before enrolling.

Greek Ab (formerly Greek B). Beginning Greek

Catalog Number: 0457

Ivy Livingston and assistant

Half course (spring term). M., W., Th., F., at 1. EXAM GROUP: 6, 15

Continuation of Greek Aa. Completion of basic grammar and reading of longer passages.

Note: No auditors. May be taken pass/fail.

Prerequisite: Greek Aa or equivalent.

Greek Ac. Review and Reading

Catalog Number: 8283

Ivy Livingston and assistant

Half course (fall term). M., W., Th., F., at 9. EXAM GROUP: 2, 11

For students with more than one year of formal training in Greek who do not place into Greek Ba. The course will combine a review of morphology and syntax with readings from prose authors. Students are prepared for Greek Bb or Ba.

Note: No auditors. May be taken Pass/Fail.

Greek Ba (formerly Greek 3). Introduction to Attic Prose

Catalog Number: 4696

Ivy Livingston and assistant

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

A bridge between the study of Greek grammar and the reading of prose authors; intended to



develop reading and translation skills and introduce prose styles.

Prerequisite: Greek Ab, Aab, Ac, or equivalent.

Greek Bb (formerly Greek 4). Selections from Homer's *Iliad*

Catalog Number: 3361

Ivy Livingston and assistant

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

An introduction to Homeric poetry: language, meter, formulae, and type scenes.

Prerequisite: Greek Ab, Aab, Ac, or equivalent.

[Greek Bbm. Introduction to Late Antique and Mediaeval/Byzantine Poetry]

Catalog Number: 9131

Ivy Livingston and members of the Department

Half course (spring term). M., W., F., at 10.

Greek poetry from Late Antiquity to Byzantium. Readings will correspond to interests of participants. Review of grammar, syntax, and linguistic developments in post-classical Greek.

Note: Expected to be given in 2011–12.

Prerequisite: Greek Ba, Ac, or permission of the instructor.

Cross-listed Courses

Culture and Belief 22. The Heroic and the Anti-Heroic in Classical Greek Civilization

For Undergraduates and Graduates

Greek H. Introductory Greek Prose Composition

Catalog Number: 6323

Ivy Livingston and assistant

Half course (fall term). M., W., F., at 9. EXAM GROUP: 5

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 Ba or equivalent.

Greek K. Advanced Greek Prose Composition

Catalog Number: 4171

Albert Henrichs

Half course (spring term). W., 4–6. EXAM GROUP: 9

Composition in the prose style of various authors and genres, with selected readings representing the development of Greek prose and its analysis by scholars, ancient and modern.

Prerequisite: Greek H or equivalent.

Greek 106. Greek Tragedy

Catalog Number: 6274

Albert Henrichs

Half course (fall term). Tu., Th., at 12. EXAM GROUP: 14



An introduction to the generic conventions of Attic tragedy, with close readings from the *Elektra* plays of Sophokles and Euripides.

Greek 107. Thucydides

Catalog Number: 8281

Mark Schiefsky

Half course (fall term). M., W., F., at 12.

Selected readings in Greek and English focusing on historical method and connections with fifth-century intellectual culture.

Greek 110r. Plato

Catalog Number: 6229

Mark Schiefsky

Half course (spring term). Tu., Th., at 1. EXAM GROUP: 15

Reading of one or more dialogues in Greek, with attention to both literary form and philosophical content.

Greek 112a. History of Greek Literature I

Catalog Number: 3052

Gregory Nagy and assistant

Half course (fall term). M., W., F., at 10. EXAM GROUP: 3

A survey of early Greek poetry and prose, with readings from Homer, Hesiod, the Homeric Hymns, lyric poetry, and Herodotus. Discussions of genre in relation to performance, historical contexts, thematic (dis)continuities, oral tradition.

[Greek 112b. History of Greek Literature II]

Catalog Number: 6889

Instructor to be determined

Half course (spring term). M., W., F., at 12.

A genre-oriented exploration of the poetry and prose produced in classical Athens, including drama, non-dramatic poetry, political and forensic speech-writing, historiography, and philosophical prose. The principal focus will be on the interrelationship between the various genres and the societal and cultural institutions that shaped them. Key concepts are occasion and performance, orality and literacy, as well as author and audience.

Note: Expected to be given in 2011–12.

[Greek 134. The Language of Homer]

Catalog Number: 5139

Jeremy Rau

Half course (fall term). M., W., (F.), at 11.

Essentials of Greek comparative and historical grammar, and a close reading of *Iliad* 1 and 3. Diachronic aspects of Homeric grammar and diction.

Note: Expected to be given in 2011–12.

Cross-listed Courses



Literature 162 (formerly *Comparative Literature 207). Theory and Methods in Comparative Oral Traditions: Seminar

[*Literature 187r (formerly *Literature 187). Selected Topics in Poetics and Rhetoric: Seminar]

Primarily for Graduates

***Greek 201. Reading Greek**

Catalog Number: 1968

Albert Henrichs

Half course (fall term). Tu., Th., at 10. EXAM GROUP: 12

Readings of Greek prose and poetry ranging from archaic to imperial, with emphasis on variety, quantity, and quick comprehension of syntactic, stylistic, and generic features.

Note: Intended for graduate students in Classical Philology as preparation for the general examinations. Texts to be selected from the reading list by participants.

Cross-listed Courses

Latin

Students who have studied Latin previously and have not taken the Advanced placement test or SAT II should contact the FAS Exams Office (Office of the Registrar, 20 Garden Street) to take the Harvard placement test during Freshman Week. No one who has studied one year or more of Latin will be admitted to Latin Aa without taking the placement test. Further information on placement in Latin and the language requirement is available from the Language Preceptor (Boylston Hall 225), or the Freshman Dean's Office.

Primarily for Undergraduates

Latin Aa (formerly Latin A). Beginning Latin

Catalog Number: 4759

Ivy Livingston and assistants

Half course (fall term). Section I: M., W., Th., F., at 9; Section II: M., W., Th., F., at 10. EXAM GROUP: 2, 11

For students with very little or no previous instruction in Latin. Introduction to Latin grammar and reading of sentences and short passages.

Note: No auditors. May be taken pass/fail. Students with more than one year of formal instruction should take the Harvard placement test in Latin during Freshman Week and consult with the Course Head before enrolling.

Latin Aab. Beginning Latin (Intensive)

Catalog Number: 7111

Ivy Livingston and assistants

Full course (fall term). M. through F., at 9; M., at 1. EXAM GROUP: 2, 11

For students with little or no previous instruction in Latin who are seriously interested in making



very rapid progress. All basic grammar of the normal first-year sequence (Latin Aa and Ab) and practice in reading prose. Students are prepared for Latin Ba, Bb, Bam, or Bbm.

Note: No auditors. May be taken pass/fail. Students with more than one year of formal instruction should take the Harvard placement test in Latin during Freshman Week and consult with the Course Head before enrolling. This course will only be offered in the fall term.

Latin Ab (formerly Latin B). Beginning Latin

Catalog Number: 2101

Ivy Livingston and assistants

Half course (spring term). Section I: M., W., Th., F., at 9; Section II: M., W., Th., F., at 10.

EXAM GROUP: 2, 11

Continuation of Latin Aa. Completion of basic grammar and reading of longer passages.

Note: No auditors. May be taken Pass/Fail.

Prerequisite: Latin Aa or equivalent.

Latin Ac. Review and Reading

Catalog Number: 7033

Ivy Livingston and assistant

Half course (fall term). M., W., Th., F., at 9. EXAM GROUP: 2, 11

For students with more than one year of formal training in Latin who do not place into Latin Ba.

The course will combine a review of morphology and syntax with readings from prose authors.

Students are prepared for Latin Ba or Bb.

Note: No auditors. May be taken Pass/Fail.

Latin Ba (formerly Latin 3). Latin Prose Selections (Classical)

Catalog Number: 2344

Ivy Livingston and assistant

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

A bridge between the study of Latin grammar and the reading of prose authors; intended to develop reading and translation skills and introduce prose styles. The readings are short selections from a variety of genres by authors such as Cicero, Pliny, Nepos, Sallust, and Petronius.

Prerequisite: Latin Ab, Aab, Ac, or equivalent.

Latin Bam (formerly Latin 3m). Latin Prose Selections (Late Antique and Medieval)

Catalog Number: 7123

Jan Ziolkowski and assistant

Half course (fall term). Section I: M., W., F., at 9; Section II: M., W., F., at 11. EXAM GROUP: 2

Begins with a review of fundamentals. Aims at increased facility in reading Latin, through a study of selected post-classical prose texts and authors such as the Vulgate Bible, Augustine, and Abelard.

Prerequisite: Latin Ab, Aab, Ac, or equivalent.

Latin Bb (formerly Latin 4). Introduction to Latin Poetry (Classical)

Catalog Number: 2488

Ivy Livingston and assistant



Half course (spring term). M., W., F., at 9. EXAM GROUP: 2
Reading of selections of Latin poetry and introduction to meter.
Prerequisite: Latin Ab, Aab, Ac, or equivalent.

Latin Bbm (formerly Latin 4m). Introduction to Latin Poetry (Late Antique and Medieval)

Catalog Number: 2096
Jan Ziolkowski and assistant
Half course (spring term). M., W., F., at 9. EXAM GROUP: 2
Selections from epic and lyric.
Prerequisite: Latin Ab, Aab, Ac, or equivalent.

Cross-listed Courses

Aesthetic and Interpretive Understanding 21 (formerly Literature and Arts A-51). Virgil: Poetry and Reception

***History 80a (formerly *History 1051). Roman Imperialism**

For Undergraduates and Graduates

Latin H. Introductory Latin Prose Composition

Catalog Number: 3814
Ivy Livingston and assistant
Half course (spring term). M., W., F., at 9. EXAM GROUP: 2
Practice in the translation of sentences and connected prose passages from English into Latin, with review of Latin syntax.
Prerequisite: Latin Ba or equivalent.

[Latin K. Advanced Latin Prose Composition]

Catalog Number: 5018
Instructor to be determined
Half course (spring term). M., 3–5.
Exercise in the prose style of different authors and periods, working within various subject-areas and genres. As a guide to composition, we will read and analyze illustrative passages from major authors, including Cato, Cicero, Sallust, Livy, Seneca, and Tacitus, as well as some distinctive styles in lesser-known authors.
Note: Expected to be given in 2011–12.

Latin 103. Latin Elegy

Catalog Number: 5435
R. J. Tarrant
Half course (fall term). M., W., F., at 11. EXAM GROUP: 4
Selections from Propertius, Tibullus, and Ovid's *Amores*.

Latin 112a. History of Latin Literature I

Catalog Number: 7099
Richard F. Thomas and assistant



Half course (fall term). M., W., F., at 1. EXAM GROUP: 6

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

Andreas Thomas Zanker

Half course (spring term). W., F., at 2, M., at 3. EXAM GROUP: 7

The literature of the late Republic and Principate. We shall read extensive selections from major authors across a range of genres, considering their form and content against their historical contexts.

Latin 115a (formerly Latin 115). Tacitus

Catalog Number: 7536

Christopher B. Krebs

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

Introduction to Tacitus' work and time with a focus on his first major work, the *Histories*. Reading of his entire work in translation, of selected passages in the original, with particular attention to his place in ancient historiography, style, motivation to write history, artful (mis)representation of characters, and the problem of free speech. Relevant inscriptions and coins will be studied. Participants will be more than welcome to make further suggestions.

Latin 129. Senecan Tragedies - (New Course)

Catalog Number: 87712

R. J. Tarrant

Half course (fall term). M., W., F., at 10. EXAM GROUP: 3

Reading and discussion of Seneca's *Troades*, *Medea*, and *Thyestes*, with attention to dramatic form, character portrayal and relation to predecessors, Greek and Roman.

Latin 134. Archaic Latin

Catalog Number: 1327

Jeremy Rau

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

Essentials of Latin comparative and historical grammar, with readings of early Latin inscriptions, legal texts, and selections from Livius Andronicus, Plautus, Ennius, and Cato.

Latin 160. Plautus

Catalog Number: 7723

Jeremy Rau

Half course (spring term). Tu., Th., at 11. EXAM GROUP: 13

Reading and discussion of Plautus' *Miles Gloriosus* and *Menaechmi*, with special attention to the language and meter of the plays.



Cross-listed Courses

Societies of the World 16 (formerly Literature and Arts C-61). The Rome of Augustus

Primarily for Graduates

***Latin 201. Reading Latin**

Catalog Number: 7642

R. J. Tarrant

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

Readings of Latin prose and poetry ranging from archaic to imperial, with emphasis on variety, quantity, and quick comprehension of syntactic, stylistic, and generic features.

Note: Intended for graduate students in Classical Philology as preparation for the general examinations.

Cross-listed Courses

***History 2052. Rome and China (Graduate Seminar in General Education) - (New Course)**

Classical Philology

Primarily for Graduates

Classical Philology 224. Aristotle: Poetics - (New Course)

Catalog Number: 66404

Gisela Striker

Half course (fall term). M., 4–6.

A study of one of Aristotle's shortest and most influential treatises, with special attention to its philosophical background and Aristotle's reactions to Plato's criticism of poetry.

Classical Philology 228. Pessimism and Palingenesis in the Ancient and Modern Worlds - (New Course)

Catalog Number: 73728

Andreas Thomas Zanker

Half course (fall term). W., 2–4.

This seminar will focus on various forms of pessimism and the roles that these have played in both ancient and modern culture. Emphasis will be placed on the forms of cultural pessimism found under the late Republic.

Classical Philology 232. Greek Language: From Koine to 20th Century Demotic - (New Course)

Catalog Number: 56248

Panagiotis Roilos

Half course (spring term). Tu., 10–12.

Explores the development of the Greek language from the late third century BC to the early



twentieth century. Major literary and non-literary sources will be discussed in connection with their broader historical contexts.

Classical Philology 233. Younger Pliny - (New Course)

Catalog Number: 33153

Kathleen M. Coleman

Half course (spring term). W., 2–4.

This seminar will study Pliny's extant works, i.e. the ten books of letters and the *Panegyricus*, concentrating on: textual transmission; genre and style; social and political context; rhetorical aims and strategies; ancient and modern reception.

Classical Philology 238. Greek Poems on Stones - (New Course)

Catalog Number: 67527

David F. Elmer

Half course (fall term). Th., 2–4.

An investigation of inscription as a medium for the recording and preservation of Greek poetry and song from the earliest archaic traces to the imperial age.

Classical Philology 263 (formerly Classics 263). Homer

Catalog Number: 8655

Gregory Nagy

Half course (spring term). Tu., 2–4.

A survey of the mechanics as well as the esthetics of Homeric poetry. Critical reassessments of the textual tradition, the reception, and the oral traditional poetic background. Close scrutiny of selected passages.

Classical Philology 293. Oidipous Twice - (New Course)

Catalog Number: 51297

Albert Henrichs

Half course (spring term). Th., 2–4.

In what sense is Sophokles' *Oidipous at Kolonos* a sequel to his *Oidipous Tyrannos*? A close intertextual study of the OT and the OK, with emphasis on the shifting identities of Oidipous.

Cross-listed Courses

Literature 162 (formerly *Comparative Literature 207). Theory and Methods in Comparative Oral Traditions: Seminar

[*Literature 187r (formerly *Literature 187). Selected Topics in Poetics and Rhetoric: Seminar]

Classical Archaeology

Primarily for Undergraduates

Cross-listed



***Freshman Seminar 37n. What's in a Coin? The World of Numismatics**
History of Art and Architecture 13x. Introduction to Greek and Roman Sculpture - (New Course)

For Undergraduates and Graduates

Classical Archaeology 131. Introduction to Greek Art and Archaeology, ca. 1200-300 BCE

Catalog Number: 0835

Adrian Staehli

Half course (spring term). Tu., Th., at 11.

Provides a broad overview of the development of Greek art and material culture from the end of the Mycenaean civilization through the Archaic and Classical periods to the time of Alexander the Great. Offers basic knowledge about core categories of archaeological objects and remains (architecture, sculpture, ceramics) within their geographical setting and the context of Greek culture and society (political monuments; religion and sanctuaries; burial customs; settlements and urbanism; domestic culture and daily life), and includes issues of archaeological method and problems of current research.

Cross-listed Courses

[History of Art and Architecture 131g. Pergamon: A Hellenistic Royal Residence and its Roman Afterlife]

History of Art and Architecture 137p. The Roman Dinner Party : Proseminar - (New Course)

[History of Art and Architecture 139x. Art and Life in Pompeii - Proseminar]

Primarily for Graduates

Classical Archaeology 247. The Trojan War: A Case Study on the Relationship of Image and Text in Ancient Art - (New Course)

Catalog Number: 84753

Adrian Staehli

Half course (spring term). M., 3–5.

Mythological scenes in ancient art were often considered as illustrations of literary narratives and even used to reconstruct lost texts. However, images with scenes from the Trojan War provide good evidence that painters and sculptors did not depend on authoritative texts but rather developed their own visual narratives of mythological tales.

Note: Open to undergraduates by permission of the instructor.

Cross-listed Courses

[History of Art and Architecture 235g. The Roman House as Enlivened Space]

History of Art and Architecture 239x (formerly History of Art and Architecture 139j). Greek Myths on Roman Sarcophagi

Medieval Greek



For Undergraduates and Graduates

Medieval Greek 115ar. Introduction to Byzantine Greek

Catalog Number: 7682

John Duffy

Half course (spring term). Tu., Th., at 10. EXAM GROUP: 12

Introduces the student to medieval Greek language and literature and, through selected readings, to important elements of Byzantine culture and society. Texts chosen from different genres and periods to reflect the great diversity of Byzantine life and letters. Types of literature will include: devotional reading, biographies, chronicles, sacred and secular poetry, letters, ecphraseis, scholarly writings, and histories. Choice of readings will correspond in part to the specific interests and needs of the participants.

Prerequisite: Greek A and B or equivalent.

Cross Listed Courses

***Freshman Seminar 38m. Meeting the Byzantines**

Medieval Latin

For Undergraduates and Graduates

Medieval Latin 115. The Cambridge Songs and Medieval Lyric

Catalog Number: 9054

Jan Ziolkowski

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

Explores a renowned lyric collection that brings together verse composed in medieval Germany, France, and Italy, as well as excerpts from Latin poetry of classical antiquity and late antiquity. Examines questions of genre (panegyric, dirges, occasional poems, comic tales, didactic, spring poems, love poems, and religious poems), of meter, of relations between text and music, of manuscripts, and of anthologizing.

Note: No prior experience with Medieval Latin necessary.

Primarily for Graduates

Medieval Latin 213 (formerly Medieval Latin 113). Alan of Lille: Seminar - (New Course)

Catalog Number: 12509

Jan Ziolkowski

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

Among the most important intellectual figures of the Twelfth-Century Renaissance, Alan (ca. 1128-1203) earned the reputation of being *doctor universalis*. Seminar examines his life and works, including the allegories *De planctu Naturae* and *Anticlaudianus* and their reception, sermons, Bible dictionary, theology, and polemic writings.

Cross-listed Courses



History of Science 107. History of Medieval Science

[History of Science 297r. Topics in the History of Medieval Latin Science]

Latin Bam (formerly Latin 3m). Latin Prose Selections (Late Antique and Medieval)

Latin Bbm (formerly Latin 4m). Introduction to Latin Poetry (Late Antique and Medieval)

[Medieval Studies 117. Constitutional and Legal History of Medieval England]

Medieval Studies 201 (formerly Medieval Studies 101). The Auxiliary Disciplines of

Medieval History: Proseminar

***Medieval Studies 202 (formerly *Medieval Studies 102). Latin Palaeography and**

Manuscript Culture: Seminar

Modern Greek

Students interested in the Modern Greek Studies Program are encouraged to contact the Director of the Program, Prof. Panagiotis Roilos (roilos@fas.harvard.edu).

For Undergraduates and Graduates

Modern Greek A. Elementary Modern Greek

Catalog Number: 8604

Vassiliki Rapti and assistant

Full course. M., W., F., at 12, and a weekly hour for conversation to be arranged. EXAM

GROUP: 5

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, as well as by online instruction.

Modern Greek B. Intermediate Modern Greek: Language and Civilization

Catalog Number: 8187

Vassiliki Rapti and assistant

Full course. M., W., F., at 11. EXAM GROUP: 4

Aims at further development of skills in speaking, comprehension, reading, and writing. Selected readings in prose (literary and journalistic), poetry, folksongs, modern music, and theater serve as an introduction to aspects of modern Greek literature and culture. The course 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. Instruction is supplemented by online instruction.

Prerequisite: An elementary knowledge of modern Greek (equivalent to that of Modern Greek A).

***Modern Greek 100. Advanced Modern Greek: Introduction to Modern Greek Literature**

Catalog Number: 8487

Vassiliki Rapti

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

Literary, sociocultural, and linguistic analysis of selected readings in prose, poetry, plays, orally transmitted songs, and folktales.



Note: Conducted in Greek.

Prerequisite: Modern Greek B or equivalent and permission of instructor.

Modern Greek 125. Greek Modernism - (New Course)

Catalog Number: 33817

Panagiotis Roilos

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

Focuses on the ways in which Greek literature contributed and responded to modernist aesthetics. Topics to be studied include tradition and modernity, nostalgia and memory, poetics and desire.

Modern Greek 145 (formerly Comparative Literature 145). Dreams and Literature

Catalog Number: 8412

Panagiotis Roilos

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

Against the dual background of ancient and medieval commentaries on the one hand, and modern psychoanalytic and ethnographic studies on the other, diverse literary texts will be explored. The major focus will be on Greek literature, but examples from other European literatures will also be considered (including film). Major topics: typology of dreams; dreams as narratives; dreaming and writing; religious dimensions. Theoretical readings to include: Aristotle, Aelius Aristides, Artemidorus, Synesius of Cyrene; Freud, Jung, Levi-Strauss, Foucault, Lyotard.

Note: Students who have previously taken Comparative Literature 145, Dreams and Literature, may not take this course for credit.

Primarily for Graduates

Cross-listed Courses

Comparative Literature 266. Irony

[Comparative Literature 288. Antiquity and Beyond: Modern Critical Theory and the Classics]

Comparative Literature

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Department of Comparative Literature



David Damrosch, Ernest Bernbaum Professor of Literature (*Chair*)
 Tamar Abramov, College Fellow in the Department of Comparative Literature
 Daniel Albright, Ernest Bernbaum Professor of Literature
 Svetlana Boym, Curt Hugo Reisinger Professor of Slavic Languages and Literatures and Professor of Comparative Literature
 Joaquim-Francisco Coelho, Nancy Clark Smith Professor of the Language and Literature of Portugal and Professor of Comparative Literature
 Verena A. Conley, Visiting Professor of Comparative Literature and of Romance Languages and Literatures
 James Engell, Gurney Professor of English Literature and Professor of Comparative Literature (*on leave 2010-11*)
 Luis M. Girón Negrón, Professor of Romance Languages and Literatures and of Comparative Literature
 Rita B. Goldberg, Lecturer on Comparative Literature
 John T. Hamilton, Professor of Comparative Literature (*on leave 2010-11*)
 Biodun Jeyifo, Professor of African and African American Studies and of Comparative Literature
 Christopher D. Johnson, Associate Professor of Comparative Literature
 Sally Livingston, Lecturer on History and Literature, Lecturer on Comparative Literature
 Christie McDonald, Smith Professor of French Language and Literature and of Comparative Literature (*on leave 2010-11*)
 Sandra Naddaff, Senior Lecturer on Literature and Comparative Literature (*Director of Studies*)
 Gregory Nagy, Francis Jones Professor of Classical Greek Literature and Professor of Comparative Literature
 Stephen Owen, James Bryant Conant University Professor
 Francois Proulx, Lecturer on Comparative Literature
 Martin Puchner, Professor of English and of Comparative Literature
 Panagiotis Roilos, Professor of Modern Greek Studies and of Comparative Literature
 Judith Ryan, Robert K. and Dale J. Weary Professor of German and Comparative Literature
 Jeffrey Schnapp, Visiting Professor of Romance Languages and Literatures, Professor of Romance Languages and Literatures (*Stanford University*)
 Marc Shell, Irving Babbitt Professor of Comparative Literature and Professor of English (*on leave 2010-11*)
 Werner Sollors, Henry B. and Anne M. Cabot Professor of English Literature and Professor of African and African American Studies (*on leave spring term*)
 Diana Sorensen, James F. Rothenberg Professor of Romance Languages and Literatures and of Comparative Literature (*on leave 2010-11*)
 Susan R. Suleiman, C. Douglas Dillon Professor of the Civilization of France and Professor of Comparative Literature
 Karen Thornber, Assistant Professor of Comparative Literature (*Director of Graduate Studies*)
 William Mills Todd III, Harry Tuchman Levin Professor of Literature and Professor of Comparative Literature
 Ruth R. Wisse, Martin Peretz Professor of Yiddish Literature and Professor of Comparative Literature (*on leave fall term*)

Committee on Literature



Tamar Abramov, College Fellow in the Department of Comparative Literature
 Daniel Albright, Ernest Bernbaum Professor of Literature
 Svetlana Boym, Curt Hugo Reisinger Professor of Slavic Languages and Literatures and Professor of Comparative Literature
 Julie A. Buckler, Professor of Slavic Languages and Literatures, Harvard College Professor (*on leave 2010-11*)
 Verena A. Conley, Visiting Professor of Comparative Literature and of Romance Languages and Literatures
 David Damrosch, Ernest Bernbaum Professor of Literature
 James Engell, Gurney Professor of English Literature and Professor of Comparative Literature (*on leave 2010-11*)
 Marjorie Garber, William R. Kenan, Jr. Professor of English and of Visual and Environmental Studies
 Luis M. Girón Negrón, Professor of Romance Languages and Literatures and of Comparative Literature
 Rita B. Goldberg, Lecturer on Comparative Literature
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 Karen Thornber, Assistant Professor of Comparative Literature
 William Mills Todd III, Harry Tuchman Levin Professor of Literature and Professor of Comparative Literature
 Justin Weir, Professor of Slavic Languages and Literatures

Other Faculty Offering Instruction in the Department of Comparative Literature

George G. Grabowicz, Dmytro Cyzevs'kyj Professor of Ukrainian Literature
 William E. Granara, Professor of the Practice of Arabic on the Gordon Gray Endowment
 Joanna Nizynska, Associate Professor of Slavic Languages and Literatures (*on leave fall term*)

Primarily for Undergraduates



Literature 10 (formerly Aesthetic and Interpretive Understanding 18). Writing Across Cultures: Literatures of the World (to 1750)

Catalog Number: 9074

Stephen Owen

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

An overview of world literatures from the earliest texts to the Enlightenment, treating multi-ethnic classical literatures, the formation of ethnic vernacular literatures, and zones in which literary cultures met. Will examine how cultural identity has been constructed in literature.

Note: This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past.

Literature 12. Introduction to Literary Studies

Catalog Number: 3548 Enrollment: Limited to 20.

Sally Livingston

Half course (fall term). Tu., 3-5.

An introduction to the basic issues of literary culture. How do we talk about what we read? How do texts relate to their cultural and economic contexts? Authors include a wide range of literary and theoretical readings including Homer, Nabokov, Woolf, Barthes, and Anne Carson.

***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 97. Tutorial — Sophomore Year**

Catalog Number: 4595

Sandra Naddaff and members of the Committee and Tutorial Board

Half course (spring term). Tu., 2-4.

Successful completion of Literature 97 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.

Successful completion of one term of Literature 98a is required of all concentrators in their junior year.

***Literature 98b. Tutorial — Junior Year**

Catalog Number: 1528

Sandra Naddaff and members of the Committee and Tutorial Board

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



Successful completion of one term of Literature 98b is required of all concentrators in their junior year.

***Literature 99a. Tutorial — Senior Year**

Catalog Number: 4857

Sandra Naddaff and members of the Committee and Tutorial Board

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

Successful completion of one term of Literature 99a is required of all concentrators in their senior year.

***Literature 99b. Tutorial — Senior Year**

Catalog Number: 1290

Sandra Naddaff and members of the Committee and Tutorial Board

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

Successful completion of one term of Literature 99b is required of all concentrators in their senior year.

Cross-listed Courses Primarily for Undergraduates

***English 90ws. Wilde and Shaw: Seminar - (New Course)**

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

For Undergraduates and Graduates

Literature 101 (formerly Literature 11). Writing Across Cultures: Literatures of the World (from 1750 to the present)

Catalog Number: 4361

David Damrosch

Half course (spring term). W., 1–3.

An overview of world literature in the modern period through a series of international styles and literary and social movements. Reading imaginative texts from around the world, we will examine the interplay of local, national, regional, and global languages, literatures, and cultures, exploring the ways writers have responded to the tensions and the opportunities of an emerging modernity.

Note: This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past.

[*Literature 104. On Theory]

Catalog Number: 8760 Enrollment: Limited to 20.

Verena A. Conley

Half course (fall term). W., 1–3.

What is theory? What is the difference between literary, critical and cultural theory? What is the relation between theory and reading? This course introduces students to various concepts of theory (Derrida, Deleuze, Foucault, Balibar, Adorno, Benjamin, Freud, Saussure, Cixous, Kristeva, Butler and others). Focuses on theoretical texts and will bring in literary texts where



necessary.

Note: Expected to be given in 2011–12.

[*Literature 106. On Lyric]

Catalog Number: 6351 Enrollment: Limited to 20.

Christopher D. Johnson

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

Explores the history of Western lyric poetry and how lyric has given voice to the recurrent themes of love, death, and subjectivity. Poetic techniques and forms will be examined, as will the roles that lyric has played as a vehicle for intellectual and cultural values. Poets to be read include Sappho, Catullus, Ovid, Bertran de Born, Dante, Petrarch, Donne, Quevedo, Sponde, Goethe, Labé, Blake, Dickinson, Baudelaire, Hölderlin, Rimbaud, Celan, Pound, Akhmatova, and Carson.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

[Literature 108. On the Essay]

Catalog Number: 28173

Christopher D. Johnson

Half course (spring term). W., 1–3.

This course examines the aesthetics, motives, and history of the literary essay. Attention will be given to the essay's forms (and formlessness), styles, subjectivities, receptions, and some of its characteristic content. Exemplary essayists to be studied include: Montaigne, Bacon, Johnson, Voltaire, the Schlegels, De Quincy, Beaudelaire, Woolf, Turgenev, Lu Hsun, Emerson, Thoreau, Benjamin, Borges, Mencken, Baldwin, Davenport, Sontag, Suleri, Berry, Eco, Dillard, and Foster Wallace.

Note: Expected to be given in 2011–12.

***Literature 109. On Translation**

Catalog Number: 0594 Enrollment: Limited to 20.

Sandra Naddaff

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

Examines theories of translation from various periods (Dryden, Schopenhauer, Schleiermacher, Benjamin, de Man, among others). Also looks closely at specific translated texts (e.g., various English translations of *The Thousand and One Nights*), and considers such topics as the notion of “unequal languages,” the problem of cultural translation, translation post-9/11, and the possibility of untranslatability. Final project involves an original translation and commentary.

Note: Preference given to Literature concentrators.

Prerequisite: Reading knowledge of one foreign language.

Literature 111. Art and Life: from Wagnerian Opera to Reality TV - (New Course)

Catalog Number: 93073

Tamar Abramov

Half course (spring term). Th., 5–7 p.m. EXAM GROUP: 18

The Total Artwork's desire to eliminate the borders between art and life is a project much identified with German Romanticism and Wagner's operas. Yet, this class will argue and provide



case studies, the form this interrogation takes is still very much alive, and has remained so throughout the 19th and 20th centuries, culminating in the very strange project that is Reality-TV. Case Studies include: Balzac, Diderot, Wagner, Brecht, Mallarmé, Moholy-Nagy, Syberberg, reality shows.

Literature 113 (formerly Humanities 16). Existential Fictions: From Saint Augustine to Jean-Paul Sartre and Beyond

Catalog Number: 3016

Verena A. Conley

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

This course examines problems of existence in relation to self and other in the world from the early Christian era to our days. It shows how *existence* preoccupies major writers who have approached its implications (and the dilemmas it inspires) in different ways. At stake are the redemptive powers of religion, thoughts about the death of God, the limits of atheism, and philosophies of becoming. Texts by Saint Augustine, Montaigne, Pascal, Kierkegaard, Dostoyevsky, Nietzsche, Gide, Heidegger, Sartre, Camus, Simone de Beauvoir, and others.

Note: This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

[*Literature 116. Literature and Science]

Catalog Number: 6289 Enrollment: Limited to 20.

Christopher D. Johnson

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

Explores how literature in different historical periods represents and reshapes the ideas, methods, and language of science. Compares the ways reason and the imagination function in literature and science. Considers how literature rethinks the cultural and historical significance of the scientific enterprise. Primary texts include Lucretius, Donne, Copernicus, Kepler, Cavendish, Fontenelle, Shelley, Goethe, Darwin, Calvino and Gibson.

Note: Expected to be given in 2011–12.

[Literature 117. Literature, Gender, and Revolution]

Catalog Number: 3626

Karen Thornber

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

Explores relationships among literature, gender, and revolution in China, Cuba, Iran, Japan, Korea, and Russia from the late 19th century to the present. Readings by Butler, Chukovskaya, Danishevar, de Beauvoir, Foucault, Mikiso Hane, Kim Ilyop, Loynaz, Marruz, Pleck, Qiu Jin, Scott, Tamura Toshiko among others.

Note: Expected to be given in 2011–12.

[*Literature 119. On Comparative Arts]

Catalog Number: 0078 Enrollment: Limited to 18.

Marc Shell and Daniel Albright

Half course (fall term). M., 2–4.

Is there one Art, or are there many arts? We will consider affinity and difference among literature, painting, music, and other arts. Student projects will investigate works of art that



submit to or reject a particular material medium. Theory from Plato (Ion), Aristotle, Lessing, Burke, Diderot, Rousseau, Hegel, Pater, Greenberg, Heidegger; examples from Homer, Leonardo, Turner, Monet, Rossetti, Wagner, Richard Strauss, Apollinaire, Schoenberg--and others.

Note: Expected to be given in 2011–12.

[*Literature 121. *1001 Nights: Adaptations, Transformations and Translations*]

Catalog Number: 5879 Enrollment: Limited to 15.

Sandra Naddaff

Half course (fall term). Tu., 1–3.

Examines how the *1001 Nights* is transformed and adapted for different media and genres.

Focuses on a variety of films, (e.g., *The Thief of Baghdad*, *Chu Chin Chow*, *Aladdin*), illustrations/images (e.g., Doré, Chagall, Matisse), musical and balletic renditions (e.g., Rimsky-Korsakov, Fokine), translations (e.g., Galland, Lane, Burton, Haddawy), and re-tellings of stories (e.g., Poe, Barth, Mahfouz, Sebbar, Zimmerman). Also considers the role of the *1001 Nights* in contemporary popular culture.

Note: Expected to be given in 2011–12. This course, when taken for a latter grade, meets the Core area requirement for Literature and Arts A.

Literature 122. Fictional Encyclopedias - (New Course)

Catalog Number: 30653

Christopher D. Johnson

Half course (fall term). Th., 3–5.

Examines the aesthetic and philosophic virtues of fictional encyclopedias by Rabelais, Sterne, Flaubert, Stein, Woolf, Borges, Eco, Queneau, Calvino, Kis, and Gadda. Considers also the mythic, historical, and material aspects of such encyclopedism.

[Literature 125. *The Desire for Narrative: Across Cultures, Forms and Media*]

Catalog Number: 70867

Biodun Jeyifo

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

An exploration of the cultural roots of the powerful human desire both to tell and be told stories, in full and not in fragments. We will range across diverse societies and cultural forms and media like fiction, drama, film, television and oral performances.

Note: Expected to be given in 2011–12.

[Literature 127. *Futurisms*]

Catalog Number: 39657

Jeffrey Schnapp (Stanford University)

Half course (fall term). M., 4–6.

From its foundation in 1909 through WWII, futurism developed into the first international cultural-political avant garde. Its aim was the revolutionary transformation of all spheres of life, and its influence extended from Europe to the Americas to Asia. Topics include machines and culture; poetics and war; futurism's ties to bolshevism and fascism. Media: poetry, performance, music, painting, photography, radio, and film. Writers: Marinetti and Mayakovsky. Visual



artists: Boccioni, Bragaglia, Russolo, Malevich, and El Lissitzky.

Note: Expected to be given in 2011–12.

Literature 128. Literature and Medicine - (New Course)

Catalog Number: 25702

Karen Thornber

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

Examines the relationship between literature and medicine through creative texts that question understandings, shatter binaries, and reconceptualize notions of normality/disability, health/disease, and life/death. Pays particular attention to the work of physician-writers.

Note: This course, when taken for a letter grade, meets the General Education requirement for Aesthetic and Interpretive Understanding or the Core area requirement for Literature and Arts A.

[Literature 129. Reading the 18th Century Through 21st-Century Eyes]

Catalog Number: 8742

Christie McDonald

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

Why read texts from the French Enlightenment today and how? Analysis of works from the 18th century juxtaposed with novels, plays, media events, and films of the 20th-21st centuries that explore debates in literature and philosophy about cultural differences, universality, and the search for belief and confidence in a society undergoing dramatic change. Readings include Beaumarchais, Beauvoir, Derrida, Diderot, Foucault, Franklin, Graffigny, Kant, Kundera, Laclos, Lyotard, Rousseau, Obama, Potocki, Voltaire.

Note: Expected to be given in 2011–12.

[Literature 130. European Romanticism] - (New Course)

Catalog Number: 92331

John T. Hamilton

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

A comparative study of the multinational projects of literary experimentation, philosophical reflection, and political critique grouped under the term Romanticism, with a dual focus on the original historical contexts around 1800 and subsequent theoretical accounts.

Note: Expected to be given in 2011–12.

Literature 132. Catching Spies: Explorations in Subjectivity - (New Course)

Catalog Number: 88835

Tamar Abramov

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

How do we account for 20th century's cultural fascination with spies and spying? In this course we will examine the place the figure of the spy holds for the modern imagination as reflected in literature, theater and film.

[Literature 134. Literature of War and Peace: Imagining and Representing the End of World War II in Europe] - (New Course)

Catalog Number: 40809

Werner Sollors



Half course (fall term). Th., at 2, Tu., 2–4.

How were the last phase of the war and the beginning of the postwar era represented? How do later images differ? This course will pursue such questions through sources from 1945 to 1955.

Note: Expected to be given in 2011–12.

Literature 140. Literature and Politics - (New Course)

Catalog Number: 19169

Ruth R. Wisse

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

Studies interactions between literature and politics in psalms, poems, novels, polemics, etc.

Using examples from the often contentious history of Jewish national sovereignty, investigates how variously literature advances and complicates political developments. Seminar format.

***Literature 146 (formerly *Literature 124). Space and Place in Postmodern Culture**

Catalog Number: 8228 Enrollment: Limited to 20.

Verena A. Conley

Half course (spring term). Tu., 11:30–1, and a weekly film screening to be arranged.

Focuses on renewed awareness of space in contemporary theory, literature and film. Examines notions of space and place under the impact of consumerism and electronic technologies in a global world. Texts and films include Lefebvre, Godard, de Certeau, Wenders, Baudrillard, Perec, Tati, Augé, Deleuze and Guattari, Virilio and Verhoeven.

Note: This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts C.

[Literature 150. Colonial and Post-Colonial Spaces: France-North Africa]

Catalog Number: 89597

Verena A. Conley

Half course (spring term). Th., 1–3.

Focuses on transformations of colonial and postcolonial spaces in North Africa that include Morocco, Tunisia, and especially, Algeria by way of literature, film and theory. Readings include Albert Memmi, Kateb Yacine, Mohammed Dib, Driss Chraïbi, Albert Camus, Frantz Fanon, Assia Djebar, Malika Mokkedem, Amara Lakhour, Amin Maalouf, Helene Cixous, Nina Bouraoui. Further readings by Deleuze and Guattari, Jacques Derrida, Edward Said and others. Special attention is given to problems of language, subjectivity, identity and citizenship, nation and community.

Note: Expected to be given in 2011–12.

[Literature 153 (formerly Comparative Literature 153). Saul Bellow and the New York Intellectuals]

Catalog Number: 2506

Ruth R. Wisse

Half course (fall term). Th., 1-3, and a weekly section to be arranged.

Studies Bellow's major works in the context of the intellectual and literary community that constituted America's first European style "intelligentsia." Considers work of Isaac Rosenfeld, Delmore Schwartz, Lionel Trilling, Irving Howe, writers of *Partisan Review* and *Commentary*.

Note: Expected to be given in 2011–12. Class is conducted in a modified seminar format.



[Literature 154. Music, Literature, and the Voice]

Catalog Number: 65838

John T. Hamilton

Half course (fall term). W., 3–5.

A comparative examination of select works of French and German literature that deal with music and the problem of the voice. Topics: verbal and musical form; musical meaning; reading and listening; music and psychoanalysis; evanescence and silence. Readings in: Diderot, Kleist, Hoffmann, Eichendorff, Balzac, Mallarmé, Thomas Mann, Bernhard, Lacan, and Quignard.

Note: Expected to be given in 2011–12. Texts may be read in English translation.

[Literature 155 (formerly Literature 110). Furor Poeticus: Madness, Inspiration, Genius]

Catalog Number: 7758

John T. Hamilton

Half course (fall term). Th., 3–5.

Considers the classical conception of mania as a divine source of prophecy, ecstasy, poetic creation, and erotic desire; then traces its complex actualizations and afterlife in ancient tragedy and philosophy, Neoplatonism, Modernism, Psychoanalysis, and Film.

Note: Expected to be given in 2011–12.

Literature 157 (formerly Comparative Literature 111). From Type to Self in the Middle Ages

Catalog Number: 9245

Luis M. Girón Negrón

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

It has been argued that the poetic "I" in premodern literatures is not a vehicle for self-representation, but an archetype of the human. The course will examine this thesis against the rise of autobiographical writing in medieval and early modern Europe. Readings include spiritual autobiographies (Augustine, Kempe, Teresa of Ávila), letter collections, *maqama* literature, troubadour lyric, Hispano-Jewish poetry, pilgrimage narratives, medieval allegories, Dante and the picaresque novel. Theoretical perspectives by Spitzer, Lejeune, Zumthor and DeCerteau.

Note: All readings in English translation. This course, when taken for a letter grade, meets the Core requirement for Literature and Arts C.

[Literature 160 (formerly Comparative Literature 160). Literary Forgeries and Mystifications]

Catalog Number: 3614

George G. Grabowicz

Half course (spring term). M., 2–4.

Examines literary forgeries and mystifications from the late 18th century to the present, focusing on their poetics, their ideological motivation and their role in modern political mythmaking (some texts considered: Ossian, The Igor Tale, the Czech manuscripts, the Protocols of the Elders of Zion, Ern Malley). Also considers the psychology and esthetics of simulation and mystification as reflected in the works of Gide, Borges, Nabokov, Pavic, Eco, and Calvino.

Note: Expected to be given in 2011–12. All readings in English.



Literature 162 (formerly *Comparative Literature 207). Theory and Methods in Comparative Oral Traditions: Seminar

Catalog Number: 7426

Gregory Nagy

Half course (spring term). M., 1–3.

Genres, forms, and themes of oral traditions in poetry and prose. Theories of performance and composition. Comparative metrical and formulaic analysis.

Note: Knowledge of Greek not required.

[Literature 163. Jewish Languages and Literature]

Catalog Number: 8627

Marc Shell and Members of the Faculty

Half course (spring term). Tu., 1-3, plus an additional hour to be arranged.

What is a Jewish language? What is Jewish literature? General topics are alphabetization, translation, oral tradition and diaspora. Languages worldwide include Hebrew as well as Judeo-Spanish, -Aramaic, -Arabic, -French, -Greek, -Italian, -Persian, -Spanish, -Malayalam, Yiddish, and other secular Jewish languages. Readings usually include love stories, medical and philosophic texts, and writings on science, travel, and music. Guest scholars visit most weeks. No language requirement.

Note: Expected to be given in 2011–12. Language credit can be arranged.

Literature 164. The 20th-Century Post-Realist Novel in Eastern Europe: Conference Course

Catalog Number: 7762

George G. Grabowicz

Half course (spring term). Th., 1–3.

Psychological, mythic, “catastrophist,” and comic tendencies in the Eastern and Central European novel between the two World Wars (1918–1939). Focus on Kafka, Capek, Zamiatin, Bulgakov, Platonov, Schulz, Witkiewicz (Witkacy), Gombrowicz and Nabokov.

Note: All texts can be read in English translation.

Literature 165. The Holocaust and Problems of Representation - (New Course)

Catalog Number: 55916

Susan R. Suleiman

Half course (spring term). M., 3-5:30 and a weekly film screening to be arranged. EXAM GROUP: 8, 9

Can the story of the Holocaust be told? Is there such a thing as “the story” of the Holocaust? Who is authorized to tell it, and how? Do aesthetic categories apply to Holocaust art? Are some representations unacceptable? We explore these and other questions raised by a wide range of works (oral and written testimonies, novels, essays, comic strips, films, poetry, monuments) produced from 1945 to the present in Europe, Israel, and the US.

Note: This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts C.

[Literature 166 (formerly Comparative Literature 166). The Comic Tradition in Jewish Culture]



Catalog Number: 3418

Ruth R. Wisse

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

Jews are probably best known in America today for their roles in the Holocaust and in Humor. What, if anything, is the relation between these spheres? Does Jewish humor make fun of the Jews, or does it make fun of those who make fun of the Jews? Studies some of the theories and uses of Jewish humor, some of its leading practitioners and outstanding works. Invites comparison with other comic traditions and investigation of “national” humor.

Note: Expected to be given in 2011–12. Readers of Yiddish may take this course as Yiddish 200. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

[Literature 174. Realism, Fantasy, and the Grotesque: Hoffmann and Balzac]

Catalog Number: 14316

John T. Hamilton

Half course (spring term). W., 3–5.

A close reading of select works by E.T.A. Hoffmann and his reception in the work of Balzac focuses on Realism’s indebtedness to the imaginative realms of the fantastic and the grotesque. Topics: music and inspiration; societal decadence and caricature; magic and the uncanny; experience, observation and expression.

Note: Expected to be given in 2011–12. Texts may be read in English translation.

[Literature 184. Imagining the City: Literature, Film, and the Arts]

Catalog Number: 2332

Giuliana Bruno and Svetlana Boym

Half course (fall term). Th., 11:30-1, and a weekly film screening W., 7-9pm, and weekly sections to be arranged.

How do visual representation and narrative figuration contribute to construct urban identity? Explores the urban imagination in different artforms: architecture, cinema, literature, photography, and painting. Topics to be mapped out include: cities and modernity, metrophilia and metrophobia, the museum and cultural archaeology, the ruin and the construction site, interior space and public sphere, technology and virtual cities. We will focus on the European city, as we travel through Paris, Berlin, St. Petersburg, Moscow, Naples, and Rome

Note: Expected to be given in 2011–12. Students who have taken VES 184 previously may not take this course for credit. Cannot be taken concurrently with VES 184. Offered jointly with the Graduate School of Design as 4353. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts B.

[*Literature 187r (formerly *Literature 187). Selected Topics in Poetics and Rhetoric: Seminar]

Catalog Number: 7999

Gregory Nagy

Half course (spring term). M., 1–3.

Comparative approaches to poetics and rhetoric. All readings for this course will be in English translations. Special arrangements for those who opt to read in the original languages. Selected



texts include Aristotle's *Poetics* and *Rhetoric*.

Note: Expected to be given in 2011–12. Knowledge of Greek not required.

Cross-listed Courses for Undergraduates

Modern Greek 125. Greek Modernism - (New Course)

Modern Greek 145 (formerly Comparative Literature 145). Dreams and Literature

***Romance Studies 191. Crowds - (New Course)**

Slavic 151. Experiments in Reading: Chekhov and Nabokov

Primarily for Graduates

***Comparative Literature 211. Mysticism and Literature: Seminar**

Catalog Number: 3867

Luis M. Girón Negrón

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

Trends and debates in the comparative study of mystical literature. Primary works by Jewish, Christian, and Muslim authors from the Middle Ages through the 16th century. Also modern authors (Borges, Eliot) and literary theorists (DeCerteau).

Note: Permission of instructor required. Offered jointly with the Divinity School as 3802.

Comparative Literature 215. Comparative Literature and Intellectual History - (New Course)

Catalog Number: 60867

Christopher D. Johnson

Half course (spring term). Th., 3-5. EXAM GROUP: 17, 18

Examines implications of intellectual history for comparative literature, especially in regard to epistemology, methodology, aesthetics, and dynamics of historical influence and change.

Authors include: Vico, Hegel, Cassirer, Blumenberg, Gadamer, Foucault, Skinner, Eco, Deleuze, and Agamben.

Comparative Literature 227. Comparative Modernism - (New Course)

Catalog Number: 37313

David Damrosch

Half course (spring term). Tu., 2-4.

A survey of major works of modernist fiction in global context, going from early and 'high' modernism to late modernism and its aftermath, together with critical and theoretical readings on modernism and modernity. Readings in Baudelaire, Rilke, Lu Xun, Bely, Proust, Barnes, Kafka, Asturias, Zhang Ailing, Yourcenar, and Mishima.

Comparative Literature 230. The Poetics of Empire: Colonization, Translation, and Literary Rewriting

Catalog Number: 0694

Karen Thornber

Half course (fall term). W., 5-7 p.m. EXAM GROUP: 9

Explores how (post)colonial writers from Asia, Africa, Latin America and the Middle East and



writers from (former) imperial powers have reconfigured one another's literatures. Rethinks concepts of world literature and cultural negotiation.

Comparative Literature 242 (formerly Literature 242). Text, Image, Public Sphere

Catalog Number: 34276

Svetlana Boym

Half course (spring term). W., 3–5. EXAM GROUP: 8, 9

The course examines relationship between verbal and visual communication in public realm through the analysis of literature, film, photography, architecture and public art. Focus on the new public media and on aesthetic and politics of the visual culture.

Note: Open to qualified undergraduates and GSD students

[Comparative Literature 245. Intertextuality]

Catalog Number: 19804

Judith Ryan

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

Explores theories of intertextuality developed by Kristeva, Jauss, Bloom, Gilbert and Gubar, Genette, and others, and asks why the debates they have provoked have had such resonance in contemporary literary studies. A series of literary texts ranging from classical antiquity to the present will provide test cases for the various theories. Attention to such questions as influence, imitation, allusion, quotation, and plagiarism.

Note: Expected to be given in 2011–12.

[Comparative Literature 246. The Critic in Culture]

Catalog Number: 3141

David Damrosch

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

This class will examine the interplay of scholarly analysis and cultural critique in a range of major modern critics and theorists, exploring their stylistic and essayistic strategies as they seek to find - or create - an audience for their ideas. Readings in Nietzsche, Foucault, Benjamin, Kobayashi, Woolf, Adorno, Barthes, Cixous, Said, Miyoshi, Minh-ha, Anzaldúa, Penley, Gramsci, and Agamben.

Note: Expected to be given in 2011–12.

[Comparative Literature 247. Baroque and Neo-Baroque Literature]

Catalog Number: 84314

Christopher D. Johnson

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

Examines the Baroque as a literary style, hystorical period, and mode of thought. Focuses on 17th century European, Colonial American, and contemporary "Neo-Baroque" texts. Analogies between the literary, visual, and musical arts are explored.

Note: Expected to be given in 2011–12. *Note:* All readings available in translation, but students are encouraged to work in the original language.

[Comparative Literature 248. American Multilingual Literature in a Transnational Context]



Catalog Number: 32792

Werner Sollors

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

This Longfellow Institute seminar works with original source materials in several different languages. Special focus is on the historiographic and critical treatment of non-Anglophone texts, on general and theoretical problems of an ongoing multilingual American tradition, on the recuperation and editing of texts, and on issues of translation.

Note: Expected to be given in 2011–12.

[Comparative Literature 250. Theories of Security]

Catalog Number: 80818

John T. Hamilton

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

Investigates the broader significance of the term "security" that has coursed through philosophical, literary and artistic productions across various historical and cultural traditions. Discussions address that which remains implicit, latent, or unthought in current political and governmental issues of security and biopolitics. Readings include: Sophocles, Plato, Seneca, Machiavelli, Hobbes, Leibniz, Nietzsche, Freud, Kafka, Heidegger, Schmitt, Arendt, Foucault, Agamben, and Virilio.

Note: Expected to be given in 2011–12.

[Comparative Literature 251. Literary Criticism and Theory: Antiquity to the Renaissance]

Catalog Number: 29296

John T. Hamilton

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

An historical and critical examination of key issues and debates in poetic theory, rhetoric, and literary interpretation. Topics include mimesis, catharsis, expression, performance, allegoresis, typology, semiotics, hermeneutics, verisimilitude, genre, decorum, and the sublime.

Note: Expected to be given in 2011–12.

[Comparative Literature 252. The Literatures of Medieval Iberia: Approaches and Debates in their Comparative Study]

Catalog Number: 38202

Luis M. Girón Negrón

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

The cultural interactions in premodern Spain between Muslims, Christians and Jews shaped the literary history of Arabic, Hebrew and the Ibero-Romance vernaculars. Our seminar examines selected scholarly debates on the comparative study of these literatures.

Note: Expected to be given in 2011–12.

Comparative Literature 253. Literature, Art and Exile

Catalog Number: 85798

Svetlana Boym

Half course (fall term). W., 3–5. EXAM GROUP: 8, 9

Does exile enable or stifle artistic creativity? How does the experience of exile shape the attitude



towards local and global culture? The course examines forms of diasporic conscience in literature and visual arts focusing on the issues of estrangement and nostalgia, comparative modernities and exilic devices, nationalism and cosmopolitanism, immigrant aesthetic and conceptions of freedom. Special topic include America through the eyes of exile, text and image in the writing of the diaspora, reconsideration of the critical theory from the perspective of exile. Works by Nabokov, Brodsky, Cortazar, Borges, Arendt, Pamuk, Rushdie, Kis, Kafka.

Note: All texts are available in English but reading in the original languages is encouraged.

[Comparative Literature 254. Modernist Polemics]

Catalog Number: 89724

Daniel Albright

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

Modernism's theories of itself - manifestoes, polemics, strident declarations, urbane repudiations of the old-fashioned-tested against Modernist practice, in literature, music, and painting. I welcome students from disparate graduate programs in the university.

Note: Expected to be given in 2011–12.

[Comparative Literature 256. Archeology of Modernity and Visual Culture]

Catalog Number: 74617 Enrollment: Limited to 15. The course will include a creative experiments in photography, writing and digital media as well as analytic assignments. VES and GSD students welcome.

Svetlana Boym

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

Explores contradictions of the modern experience in literature, philosophy, arts and architecture. Topics for 2010: nostalgia and modernization, public freedom and cross-cultural memory, archeology and the creative mapping of the urban space, culture and politics. Special attention to the relationship between critical theory and creative practice. Reading from Benjamin, Simmel, Shklovsky, Nabokov, Kafka, Arendt, Certeau, Lyotard, Derrida.

Note: Expected to be given in 2011–12.

Comparative Literature 260. Renaissance and Baroque Drama - (New Course)

Catalog Number: 15546

Christopher D. Johnson

Half course (fall term). M., 3–5.

Compares late Renaissance dramas by Marlowe, Shakespeare, Beaumont, Racine, Molière, Tirso de Molina, Calderón, Bruno, and Gryphius. Old and new critical approaches considered as well. Some knowledge of French, Italian, German, and/or Spanish helpful.

[Comparative Literature 261. Fragments of a Material History of Literature]

Catalog Number: 6923

Jeffrey Schnapp (Stanford University)

Half course (spring term). W., 1–3.

Literary studies studied from the perspective of the practices that have shaped ideas concerning literature, writing, speech, and communication: from scrolls and codices to the rise of printing and typewriting to digital writing.

Note: Expected to be given in 2011–12.



Comparative Literature 263. Journey, Exile, and Displacement in Modern Arabic Literature

Catalog Number: 3125

William E. Granara

Half course (spring term). M., 4–6. EXAM GROUP: 9

The course examines narratives of journey, exile, and displacement in modern Arabic literature that trespass geographical, political and linguistic boundaries, and create new literary spaces that define and reshape modern Arab identities. Theoretical readings will include Pratt, Said, Rushdie and Kaplan.

Note: Arabic helpful but not required. Undergraduates welcome.

Comparative Literature 264. Thinking and Writing Transculturally

Catalog Number: 6133

Karen Thornber

Half course (spring term). W., 5–7 p.m.

Explores approaches to transculturation in the production and evaluation of literature in light of new understandings of human and textual border-crossings. Topics include the ethics of dividing cultural products along ethnic, linguistic, and national lines on the one hand and classifying phenomena as global on the other, and the ramifications of cross-cultural comparison. We also examine the relationship between creative production and such topics as empire, travel/diaspora, translingualism, and literary reconfiguration.

Comparative Literature 265. A World Lost, A World Regained: German Intellectuals in America - (New Course)

Catalog Number: 42723

Tamar Abramov

Half course (spring term). Tu., 4–6.

This course will investigate the fruitful yet traumatic encounter between Europe and America in the works of German émigrés to the United States in the twenties and thirties. What did they see, what did they fail to see and why.

Comparative Literature 266. Irony

Catalog Number: 9984

Panagiotis Roilos

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

Explores major European philosophical and aesthetic discourses on irony as well as literary manipulations of the trope from Greek antiquity to postmodernism.

Comparative Literature 269. Broken English: English Language Literature in a Postmodern, Postcolonial Frame - (New Course)

Catalog Number: 91999

Biodun Jeyifo

Half course (spring term). W., 2–4. EXAM GROUP: 7, 8

An exploration of a range of experimental writings in the English Language predicated on the varieties of "englishes" spoken and used as idioms of writing and performance around the world. Special attention will be paid to theoretical and critical attempts to both assimilate these currents



of expression into recognizable patterns and to create new categories of analysis, appropriation and legitimation.

Note: This course is also listed as English 266, with catalog number 18837.

[Comparative Literature 273. Approaches to Modernity: The Metropolis]

Catalog Number: 2521

Svetlana Boym

Half course (fall term). W., 2-4; W., at 4.

Examines the relationship between urban experience and debates on modernity/postmodernity in art, architecture and social theory. Topics: nostalgia and modernization, cultural archeology and architecture of transition, memorial, museum and public art, national identity and cosmopolitan imagination, metropolis and megapolis.

Note: Expected to be given in 2011–12. Students in this class will be encouraged to attend lectures and screenings for VES 184 and develop individual research and/or creative projects.

[Comparative Literature 276. Renaissance Poetics and Rhetoric]

Catalog Number: 2534

Christopher D. Johnson

Half course (spring term). W., 3–5.

Examines Renaissance literary criticism and theory in the context of the arts of poetry and rhetoric. Topics include imitation, genre, decorum, and the conceit. Readings from Petrarch to Gracián and Boileau.

Note: Expected to be given in 2011–12.

[Comparative Literature 277. Literature and Diaspora]

Catalog Number: 6042

Karen Thornber

Half course (spring term). W., 1–3.

Examines creative and critical discourse from and about the African, Chinese, Indian, Japanese, Jewish, and Korean diasporas. Explores the relationship between diaspora and constructions of artistic and cultural identities, transculturation, translation, and multilingualism.

Note: Expected to be given in 2011–12.

[Comparative Literature 278. Failure and Change (Graduate Seminar in General Education)]

Catalog Number: 41112

Christie McDonald

Half course (fall term). Tu., 1–3.

Analysis of the failure of models and testing of limits in reflection about change, as well as the dialogue among literary, theological, socio-political, artistic, and philosophical discourses.

Topics include authority, freedom, equality, sentiment, reason, fanaticism, tolerance. Readings include works from St. Augustine, Rousseau, Diderot, Kant, Proust, Koselleck, Rorty, Beauvoir, Sartre, Kofman, Beckett. The seminar will design and develop a General Education course on these themes for undergraduates; it will also contain an arts component.

Note: Expected to be given in 2011–12.



**[Comparative Literature 280. History of Literary Criticism: Antiquity to the Renaissance]
- (New Course)**

Catalog Number: 84548

John T. Hamilton

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

Closely examines theoretical texts in the Classical Tradition on a vast array of topics and concepts: mimesis, poesis, performance, rhetoric, exegesis, allegoresis, enthusiasm and the sublime. Readings from Greco-Roman antiquity to the European Renaissance.

Note: Expected to be given in 2011–12.

[Comparative Literature 286 (formerly Literature 148). Metaphor]

Catalog Number: 6074

Christopher D. Johnson

Half course (fall term). M., 3–5.

Explores the theory and practice of metaphor in literature, philosophy, and science. Topics include: the aesthetic, heuristic, and epistemological functions of metaphor; metaphor's relation to allegory, irony, and other "major tropes"; metaphor in lyric poetry. Readings include Aristotle, Gracián, Jakobson, Freud, Ricoeur, Blumenberg, Kofman, Derrida, de Man, and Kuhn.

Note: Expected to be given in 2011–12. All readings will be available in translation, but students are encouraged to work in the original languages.

[Comparative Literature 288. Antiquity and Beyond: Modern Critical Theory and the Classics]

Catalog Number: 7557

Panagiotis Roilos

Half course (fall term). Tu., 1–3.

Explores the impact of classical literature and culture on the formation of modern critical theory. Topics include: construction of power; trafficability of art; ritual theory; sexuality; gender studies; irony; orality and literacy.

Note: Expected to be given in 2011–12.

***Comparative Literature 299ar. Theory and Comparative Literature: Proseminar**

Catalog Number: 2431

David Damrosch

Half course (fall term). Tu., 2–4.

An investigation into current trends in comparative literature, with an emphasis on methodologies, resources, and theory.

Note: Required of first-year graduate students in Comparative Literature; others may be admitted by permission of the instructor.

Cross-listed Courses for Graduate Students

***English 266. 'Broken English': English Language Literature in a Postmodern, Postcolonial Frame - (New Course)**

***English 289. Ideas in Literature: Graduate Seminar - (New Course)**

French 268. "Foreigners" in French, from Beckett to Littell



History of Science 290. Critical History: Curating Images, Objects, Media: Seminar - (New Course)

Graduate Courses of Reading and Research

***Comparative Literature 396. Preparation for the General Examinations**

Catalog Number: 4570

Daniel Albright 4615, Svetlana Boym 1926, Joaquim-Francisco Coelho 7715, Verena A. Conley 2250, David Damrosch 5998, James Engell 8076 (on leave 2010-11), Luis M. Girón Negrón 3060, John T. Hamilton 3977 (on leave 2010-11), Christopher D. Johnson 4301, Christie McDonald 1160 (on leave 2010-11), Gregory Nagy 1423, Stephen Owen 7418, Julie Peters 6250, Panagiotis Roilos 1982, Judith Ryan 1135, Marc Shell 3176 (on leave 2010-11), Werner Sollors 7424 (on leave spring term), Diana Sorensen 4214 (on leave 2010-11), Susan R. Suleiman 7234, Karen Thornber 5764, William Mills Todd III 1634, and Ruth R. Wisse 3177 (on leave fall term)

***Comparative Literature 397. Direction of Doctoral Dissertations**

Catalog Number: 0320

Daniel Albright 4615, Svetlana Boym 1926, Joaquim-Francisco Coelho 7715, Verena A. Conley 2250, David Damrosch 5998, James Engell 8076 (on leave 2010-11), Luis M. Girón Negrón 3060, William E. Granara 1054, John T. Hamilton 3977 (on leave 2010-11), Christopher D. Johnson 4301, Christie McDonald 1160 (on leave 2010-11), Sandra Naddaff 7779, Gregory Nagy 1423, Stephen Owen 7418, Julie Peters 6250, Panagiotis Roilos 1982, Judith Ryan 1135, Marc Shell 3176 (on leave 2010-11), Werner Sollors 7424 (on leave spring term), Diana Sorensen 4214 (on leave 2010-11), Susan R. Suleiman 7234, Karen Thornber 5764, William Mills Todd III 1634, and Ruth R. Wisse 3177 (on leave fall term)

***Comparative Literature 399. Reading and Research**

Catalog Number: 2893

Daniel Albright 4615, Svetlana Boym 1926, Joaquim-Francisco Coelho 7715, Verena A. Conley 2250, David Damrosch 5998, James Engell 8076 (on leave 2010-11), Luis M. Girón Negrón 3060, John T. Hamilton 3977 (on leave 2010-11), Christopher D. Johnson 4301, Christie McDonald 1160 (on leave 2010-11), Sandra Naddaff 7779, Gregory Nagy 1423, Stephen Owen 7418, Julie Peters 6250, Panagiotis Roilos 1982, Judith Ryan 1135, Marc Shell 3176 (on leave 2010-11), Werner Sollors 7424 (on leave spring term), Diana Sorensen 4214 (on leave 2010-11), Susan R. Suleiman 7234, Karen Thornber 5764, William Mills Todd III 1634, and Ruth R. Wisse 3177 (on leave fall term)

Candidates for the doctoral degree in Comparative Literature may pursue advanced studies under the individual supervision of these instructors.

Note: Permission of the instructor and the Chairman of the Department required.

Cross-listed Graduate Courses of Reading and Research

***African and African American Studies 301. Graduate Proseminar**



Computer Science

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the School of Engineering and Applied Sciences Offering Instruction in Computer Science

Roger W. Brockett, An Wang Professor of Electrical Engineering and Computer Science
David M. Brooks, Gordon McKay Professor of Computer Science (*on leave spring term*)
Yiling Chen, Assistant Professor of Computer Science
Stephen N. Chong, Assistant Professor of Computer Science
Krzysztof Z. Gajos, Assistant Professor of Computer Science
Steven J. Gortler, Robert I. Goldman Professor of Computer Science (*on leave 2010-11*)
Daniel J. Grossman, Visiting Associate Professor of Computer Science
Barbara J. Grosz, Higgins Professor of Natural Sciences, Dean of the Radcliffe Institute for Advanced Study
Vijay Janapa Reddi, Visiting Lecturer on 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 (*Director of Undergraduate Studies*)
David J. Malan, Lecturer on Computer Science
Michael D. Mitzenmacher, Gordon McKay Professor of Computer Science, Area Dean for Computer Science
John G. Morrisett, Allen B. Cutting Professor of Computer Science (*on leave fall term*)
Cherry Murray, John A. and Elizabeth S. Armstrong Professor of Engineering and Applied Sciences and Professor of Physics, Dean of Harvard School of Engineering and Applied Sciences
Radhika Nagpal, Thomas D. Cabot Associate Professor of Computer Science
David C. Parkes, Gordon McKay Professor of Computer Science
Hanspeter Pfister, Gordon McKay Professor of the Practice of Computer Science
Michael O. Rabin, Thomas J. Watson, Sr. Professor of Computer Science (*on leave spring term*)
Margo I. Seltzer, Herchel Smith Professor of Computer Science
Stuart M. Shieber, James O. Welch, Jr. and Virginia B. Welch Professor of Computer Science
Michael D. Smith, John H. Finley, Jr. Professor of Engineering and Applied Sciences, Dean of the Faculty of Arts and Sciences
Latanya Sweeney, Visiting Professor of Computer Science
Salil P. Vadhan, Vicky Joseph Professor of Computer Science and Applied Mathematics
Leslie G. Valiant, T. Jefferson Coolidge Professor of Computer Science and Applied Mathematics



James H. Waldo, Gordon McKay Professor of the Practice of Computer Science
Gu-yeon Wei, Gordon McKay Professor of Electrical Engineering and Computer Science
Matthew D. Welsh, Gordon McKay Professor of Computer Science (*on leave 2010-11*)
Woodward Yang, Gordon McKay Professor of Electrical Engineering and Computer Science
Todd Zickler, John L. Loeb Associate Professor of the Natural Sciences
Jonathan L. Zittrain, Professor of Law in the Faculty of Law, and Professor of Computer Science in the School of Engineering and Applied Sciences in the Faculty of Arts and Sciences

Other Faculty Offering Instruction in Computer Science

The School of Engineering and Applied Sciences (www.seas.harvard.edu) offers undergraduate and graduate courses in Applied Mathematics, Applied Physics, Computer Science, Earth and Planetary Sciences, and Engineering Sciences. Engineering and Applied Sciences faculty also offer several courses in the section entitled Freshman Seminars, Extra-Departmental Courses, and House Seminars.

Primarily for Undergraduates

For information concerning concentration in Computer Science please consult the Director of Undergraduate Studies or the Office of Student Affairs, School of Engineering and Applied Sciences, Pierce Hall 110. The Applied Mathematics and Engineering Sciences sections of the catalog should be consulted for additional courses relevant to computer science.

Computer Science 1. Great Ideas in Computer Science

Catalog Number: 6903

Henry H. Leitner

Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

An introduction to the most important discoveries and intellectual paradigms in computer science, designed for students with little or no previous background. Explores problem-solving using high and low-level programming languages; presents an integrated view of computer systems, from switching circuits up through compilers and GUI design. Examines theoretical and practical limitations related to unsolvable and intractable computational problems, and the social and ethical dilemmas presented by such issues as software unreliability and invasions of privacy. *Note:* May not be taken for credit after completing Computer Science 50. This course, when taken for a letter grade, meets the General Education requirement for Empirical and Mathematical Reasoning or the Core area requirement for Quantitative Reasoning.

Computer Science 50. Introduction to Computer Science I

Catalog Number: 4949

David J. Malan

Half course (fall term). M., W., 1-2:30, and a weekly section.

Introduction to the intellectual enterprises of computer science and the art of programming. This course teaches students how to think algorithmically and solve problems efficiently. Topics include abstraction, encapsulation, data structures, databases, memory management, software development, virtualization, and websites. Languages include C, PHP, and JavaScript plus SQL,



CSS, and XHTML. Problem sets inspired by real-world domains of biology, cryptography, finance, forensics, and gaming. Designed for concentrators and non-concentrators alike, with or without prior programming experience.

Note: This course may be taken for a letter grade or pass/fail. When taken for a letter grade, this course meets the General Education requirement for Empirical and Mathematical Reasoning or the Core area requirement for Quantitative Reasoning. This course will also meet F., 1-2:30pm on September 3, 2010 and September 10, 2010 only. Students with conflicts should watch those lectures online.

Computer Science 51. Introduction to Computer Science II

Catalog Number: 3411

John G. Morrisett

Half course (spring term). Tu., Th., 1-2:30, and an additional 90-minute section to be arranged.

EXAM GROUP: 15, 16

Abstraction and design in computation. Topics include: Functional and object-oriented styles of programming; software engineering in the small; models of computation. Goal: understanding how to design large programs to make them readable, maintainable, efficient, and elegant.

Exercises in ML and Java.

Prerequisite: Computer Science 50 or equivalent.

Computer Science 61 (formerly Computer Science 160). Systems Programming and Machine Organization

Catalog Number: 3461

Stephen N. Chong

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

Fundamentals of computer systems programming, machine organization, and performance tuning. This course provides a solid background in systems programming and a deep understanding of low-level machine organization and design. Topics include C and assembly language programming, program optimization, memory hierarchy and caching, virtual memory and dynamic memory management, concurrency, threads, and synchronization.

Prerequisite: CS50 or some experience programming in C.

***Computer Science 91r. Supervised Reading and Research**

Catalog Number: 0361

Harry R. Lewis

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

Supervised individual study of advanced topics in computer science. A student wishing to enroll in Computer Science 91r must be accepted by a faculty member who will supervise the course work. A form available from the Academic Office, Pierce Hall 110, must be filled out and signed by the student and faculty supervisor. Students writing theses may enroll in this course while conducting thesis research and writing.

Note: At most two terms of Computer Science 91r may be taken for academic credit. May not be taken Pass/Fail. Students wishing more information about the range of suitable projects or faculty supervisors should consult the Director of Undergraduate Studies.

For Undergraduates and Graduates



***Computer Science 105 (formerly Computer Science 199r). Privacy and Technology**

Catalog Number: 9751 Enrollment: Limited to 30.

James H. Waldo and Michael D. Smith

Half course (spring term). Tu., Th., 1–2:30. EXAM GROUP: 16

What is privacy, and how is it affected by recent developments in computer technology? Course critically examines popular concepts of privacy and uses a rigorous analysis of technologies to understand the policy and ethical issues at play. Case studies: RFID, database anonymity, research ethics, wiretapping. Course relies on some technical material, but is open and accessible to all students, especially those with interest in economics, engineering, political science, computer science, sociology, biology, law, government, philosophy.

Note: This course, when taken for a letter grade, meets the General Education requirement for Culture and Belief or the Core area requirement Social Analysis.

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: 12, 13

General introduction to formal systems and the theory of computation, teaching how to reason precisely about computation and prove mathematical theorems about its capabilities and limitations. Finite automata, Turing machines, formal languages, computability, uncomputability, computational complexity, and the P vs. NP question.

Computer Science 124. Data Structures and Algorithms

Catalog Number: 5207

Michael D. Mitzenmacher

Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

Design and analysis of efficient algorithms and data structures. Algorithm design methods, graph algorithms, approximation algorithms, and randomized algorithms are covered.

Prerequisite: Computer Science 50 or equivalent; Computer Science 51 is helpful. Some exposure to discrete applied mathematics, such as Applied Mathematics 106 or 107 or Computer Science 121 or Statistics 110, is also helpful.

[Computer Science 141. Computing Hardware]

Catalog Number: 4357

David M. Brooks

Half course (fall term). M., W., 1-2:30, and a two-hour weekly laboratory.

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.

Note: Expected to be given in 2011–12.

Prerequisite: Programming experience required.

Computer Science 143. Computer Networks

Catalog Number: 6401

H. T. Kung

Half course (fall term). M., W., 1–2:30.



Principles, design, implementation, and performance of computer networks. Topics include: Internet protocols and routing, local area networks, TCP, performance analysis, congestion control, network address translation, voice and video over IP, switching and routing, mobile IP, peer-to-peer overlay networks, network security, and other current research topics. Programming assignments on protocol implementation and analysis.

Prerequisite: Computer Science 51 and 61.

[Computer Science 144r. Networks Design Projects]

Catalog Number: 5415

H. T. Kung

Half course (fall term). M., W., 2:30–4.

Cooperative design and development of advanced network-based systems with both technology and business considerations. Students will work in 2 person teams. Student work will include reading assignments, homework sets, a project proposal, and project reports and presentations. At the end of the class, all teams will defend their approaches and results in front of the class and invited guests.

Note: Expected to be given in 2011–12. Preference given to upper-class undergraduates or graduate students in computer science or in business.

Prerequisite: Computer Science 143 or equivalent experience.

***Computer Science 148. Design of VLSI Circuits and Systems**

Catalog Number: 1772 Enrollment: Limited to 16.

Gu-yeon Wei

Half course (spring term). Tu., Th., 11:30–1.

Presentation of concepts and techniques for the design and fabrication of VLSI systems and digital MOS integrated circuits. Topics include: basic semiconductor theory; MOS transistors and digital MOS circuits design; synchronous machines, clocking, and timing issues; high-level description and modeling of VLSI systems; synthesis and place and route design flows; and testing of VLSI circuits and systems. Various CAD tools for design, simulation, and verification are extensively used.

Prerequisite: Computer Science 141 or permission of instructor.

Computer Science 152. Programming Languages

Catalog Number: 6841

Instructor to be determined

Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

Comprehensive introduction to the principal features and overall design of both traditional and modern programming languages, including syntax, formal semantics, abstraction mechanisms, modularity, type systems, naming, polymorphism, closures, continuations, and concurrency. Provides the intellectual tools needed to design, evaluate, choose, and use programming languages.

Prerequisite: Computer Science 51; Computer Science 121 is recommended. Students must have good programming skills, be comfortable with recursion, basic mathematical ideas and notations.

[Computer Science 153. Compilers]

Catalog Number: 2842



John G. Morrisett

Half course (fall term). M., W., F., at 11.

Implementation of efficient interpreters and compilers for programming languages. Associated algorithms and pragmatic issues. Emphasizes practical applications including those outside of programming languages proper. Also shows relationships to programming-language theory and design. Participants build a working compiler including lexical analysis, parsing, type checking, code generation, and register allocation. Exposure to run-time issues and optimization.

Note: Expected to be given in 2011–12.

Prerequisite: Computer Science 51 or 61.

Computer Science 161. Operating Systems

Catalog Number: 4347

Margo I. Seltzer

Half course (spring term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16

The fundamental principles of resource management and abstraction in modern operating systems. Control abstractions: threads, processes, scheduling, synchronization. Storage abstractions: dynamic memory allocation, virtual memory, file system design. Communication abstractions: interprocess communication, networking. Case studies. Design and implementation of parts of a multiuser multitasking virtual-memory operating system.

Prerequisite: Computer Science 51 and 61.

[Computer Science 165. Information Management]

Catalog Number: 0560

Margo I. Seltzer

Half course (spring term). Tu., Th., 1–2:30.

Covers the fundamental concepts of database and information management. Data models: relational, object-oriented, and other; implementation techniques of database management systems, such as indexing structures, concurrency control, recovery, and query processing; management of unstructured data; terabyte-scale databases.

Note: Expected to be given in 2011–12.

Prerequisite: Computer Science 51.

Computer Science 171. Visualization

Catalog Number: 8877

Hanspeter Pfister

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

Introduction to key design principles and techniques for visualizing data. Covers design practices, data and image models, visual perception, interaction principles, tools from various fields, and applications. Introduces programming of interactive visualizations.

Note: This course, when taken for a letter grade, meets the General Education requirement for Empirical and Mathematical Reasoning or the Core area requirement for Quantitative Reasoning.

Prerequisite: Computer Science 50 or equivalent programmin experience. Exceptions by permission of the instructor.

**Computer Science 175. Computer Graphics**

Catalog Number: 3771

*Hanspeter Pfister**Half course (fall term). M., W., 4–5:30. EXAM GROUP: 9*

The computational aspects of computer graphics. Two major themes are image rendering (viewing transformations, clipping, visible-surface processing, raster algorithms, reflection models, lighting models, surface shading, antialiasing, ray tracing, radiosity, and volume rendering) and scene modeling (modeling transformations, curves and surfaces, texture mapping, data-amplification techniques, constructive solid geometry, scalar- and vector-field data, and animation). Ancillary topics include color compression, image compression, image compositing, graphical user interfaces, and special machine architectures for computer graphics.

Prerequisite: Computer Science 51, Applied Mathematics 21b or Mathematics 21b.

Computer Science 179. Design of Usable Interactive Systems

Catalog Number: 4052

*Krzysztof Z. Gajos**Half course (spring term). M., W., 2:30–4.*

Usability and design as keys to successful technology. Covers user observation techniques, needs assessment, low and high fidelity prototyping, usability testing methods, as well as theory of human perception and performance, and design best practices. Focuses on understanding and applying the lessons of human interaction to the design of usable systems; will also look at lessons to be learned from less usable systems. The course includes several small and one large project.

Computer Science 181. Intelligent Machines: Perception, Learning, and Uncertainty

Catalog Number: 6454

*David C. Parkes**Half course (spring term). M., W., 1–2:30. EXAM GROUP: 6, 7*

Introduction to artificial intelligence, focusing on problems of perception, reasoning under uncertainty, and especially machine learning. Supervised learning algorithms. Decision trees. Ensemble learning and boosting. Neural networks, multi-layer perceptrons and applications. Support vector machines and kernel methods. Clustering and unsupervised learning. Probabilistic methods, parametric and non-parametric density estimation, maximum likelihood and maximum a posteriori estimates. Bayesian networks and graphical models: representation, inference and learning. Hidden Markov models. Markov decision processes and reinforcement learning. Computational learning theory.

Prerequisite: Computer Science 51, Computer Science 121, and Statistics 110.

Computer Science 182. Intelligent Machines: Reasoning, Actions, and Plans

Catalog Number: 0134

*Radhika Nagpal**Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

Introduction to AI, focused on problems in reasoning about action and rational decision making. Search: constraint satisfaction; informed search and optimization; game playing. Knowledge representation and logical inference. Planning: representation, search and heuristics. Bounded rationality, situated agents. Multiagent systems. Discussion of relevant work in philosophy,



economics, and decision theory. Applications to scheduling, robotics and e-commerce.
Prerequisite: Computer Science 51; Computer Science 121 (may be taken concurrently).

Computer Science 187. Computational Linguistics

Catalog Number: 0249

Stuart M. Shieber

Half course (spring term). Tu., Th., 2:30–4.

Introduction to computational linguistics, the study of human language using the tools and techniques of computer science, with applications to a variety of natural-language-processing problems. Representing syntactic structure: context-free, augmented context-free, and trans-context-free grammars. Representing semantic structure: first-order and higher-order logics. Computing with syntactic and semantic representations: Prolog programming; parsing and generation algorithms. Low-level language processing with finite-state methods.

Prerequisite: Computer Science 121.

***Computer Science 189r. Autonomous Multi-Robot Systems - (New Course)**

Catalog Number: 36932 Enrollment: Limited to 15.

Radhika Nagpal

Half course (spring term). F., 1–4. EXAM GROUP: 6, 7, 8

Building autonomous robotic systems requires understanding how to make robots that observe, reason, and act. Each component uses many engineering principles: how to fuse, multiple, noisy sensors; how to balance short-term versus long-term goals; how to control one's actions and how to coordinate with others. This year, we will study these questions in the context of a project to develop autonomous robot soccer teams. The class format will mix seminar and lab formats.

Note: Preference will be given to students with experience in AI (e.g. CS181 or CS182 and/or robotics ES159).

[*Computer Science 199r. Special Topics in Computer Science]

Catalog Number: 4242 Enrollment: Limited to 18.

Radhika Nagpal

Half course (spring term). F., 1–4.

Robotic Systems Design: Building autonomous robotic systems requires understanding how to make robots that observe, reason, and act. The fundamentals behind each of these components requires an understanding of different engineering principles: how to fuse, multiple noisy sensor inputs; how to balance short-term versus long-term goals; how to control one's actions and reliably manipulate objects. In this class we will study these questions in the context of a semester-long project to develop autonomous robot soccer teams.

Note: Expected to be given in 2011–12. The class format will mix seminar and lab formats.

Preference will be given to undergraduate students with previous experience in robot soccer, and robotics.

Primarily for Graduates

[Computer Science 220r. Cryptography: Trust and Adversity]

Catalog Number: 1637

Michael O. Rabin



Half course (fall term). Tu., Th., 11:30–1.

Modern cryptography. Mathematical tools. Public-key encryptions, digital signatures, key exchanges, zero-knowledge proofs, authentication, oblivious transfer, financial cryptography, secure multi-party computation, provably secure encryptions. Foundations: Probabilistic encryption and semantic security. Attacks and countermeasures.

Note: Expected to be given in 2011–12.

[Computer Science 221. Computational Complexity]

Catalog Number: 5812

Salil P. Vadhan

Half course (spring term). M., W., 1–2:30.

A quantitative theory of the resources needed for computing and the impediments to efficient computation. The models of computation considered include ones that are finite or infinite, deterministic, randomized, quantum or nondeterministic, discrete or algebraic, sequential or parallel.

Note: Expected to be given in 2011–12.

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., 10–11:30.

Covers topics related to algorithms for big data, especially related to networks. Themes include compression, cryptography, coding, and information retrieval related to the World Wide Web.

Requires a major final project.

Prerequisite: Computer Science 124.

Computer Science 225. Pseudorandomness

Catalog Number: 4869

Salil P. Vadhan

Half course (spring term). M., W., 2:30–4.

Efficiently generating objects that “look random” despite being constructed using little or no randomness. Connections and applications to computational complexity, cryptography, and combinatorics. Pseudorandom generators, randomness extractors, expander graphs, error-correcting codes, hash functions.

Prerequisite: Exposure to randomized algorithms (as in Computer Science 124), computational complexity (as in Computer Science 121), and algebra (as in Applied Mathematics 106, Mathematics 123, or Computer Science 226r).

Computer Science 226r. Efficient Algorithms

Catalog Number: 1749

Michael O. Rabin

Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

Important algorithms and their real life applications. Topics include combinatorics, string matching, wavelets, FFT, computational algebra number theory and geometry, randomized



algorithms, search engines, page rankings, maximal flows, error correcting codes, cryptography, parallel algorithms.

Computer Science 228. Computational Learning Theory

Catalog Number: 0364

Leslie G. Valiant

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

Possibilities of and limitations to performing learning by computational agents. Topics include computational models, polynomial time learnability, learning from examples and learning from queries to oracles. Applications to Boolean functions, automata and geometric functions.

Prerequisite: Computer Science 121 or equivalent.

[Computer Science 229r (formerly Computer Science 229). Topics in the Theory of Computation]

Catalog Number: 3730

Leslie G. Valiant

Half course (spring term). Tu., Th., 2:30–4.

Students read, present, and critically evaluate current research papers in theoretical computer science. The focus will be on Biology and Complexity. See syllabus and web site for specific topics of focus.

Note: Expected to be given in 2011–12.

Prerequisite: Computer Science 121 or equivalent.

[Computer Science 244r. Networks Design Projects]

Catalog Number: 3018

H. T. Kung

Half course (fall term). M., W., 2:30–4.

The contents and course requirements are similar to those of Computer Science 144r, with the exception that students enrolled in Computer Science 244r are expected to do substantial system implementation and perform graduate-level work.

Note: Expected to be given in 2011–12. Preference given to upper-class undergraduates or graduate students in computer science or in business who are proficient in computer programming or in business software.

Prerequisite: Computer Science 143 or equivalent experience.

Computer Science 246r. Advanced Computer Architecture

Catalog Number: 0979

David M. Brooks

Half course (fall term). Tu., Th., 11:30–1.

Covers technology trends in computer system design, with an emphasis on power-aware computing for mobile, embedded, and traditional systems. System design areas include implementation, architecture, system software, and applications.

Note: Taught seminar style after the first several lectures.

Prerequisite: Computer Science 141 recommended. Consult instructor with questions.



***Computer Science 248. Advanced Design of VLSI Circuits and Systems**

Catalog Number: 7191 Enrollment: Limited to 16.

Gu-yeon Wei

Half course (spring term). Tu., Th., 11:30–1.

The contents and course requirements are similar to those of Computer Science 148, with the exception that students enrolled in Computer Science 248 are expected to do a substantial design project and paper discussions on advanced topics.

Prerequisite: Computer Science 141 or permission of instructor.

Computer Science 252r. Advanced Topics in Programming Languages

Catalog Number: 1986

Stephen N. Chong

Half course (spring term). Tu., Th., 1–2:30. EXAM GROUP: 16

Seminar course exploring recent research in programming languages. Topics vary from year to year. Students read and present research papers, undertake a research project.

Note: Expected to be omitted in 2011-12.

Prerequisite: Computer Science 152 or permission of the instructor.

Computer Science 253r (formerly Computer Science 253r). Virtual Machines

Catalog Number: 2901

Simone Campanoni and Vijay Janapa Reddi

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

Introduction and survey of virtual machines. This class will cover the various applications of virtual machine systems and their design choices, ranging from process-level abstraction to both high-level language machine architecture (such as DotNet and Java) and system-level virtualization (like VMware systems). Class readings will also include the study of co-designed virtual machine systems.

Note: Preference given to graduate students or upper-class concentrators.

Prerequisite: Computer Science 153 or equivalent.

[Computer Science 261. Research Topics in Operating Systems]

Catalog Number: 6706

Margo I. Seltzer

Half course (fall term). Tu., Th., 1–2:30.

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.

Note: Expected to be given in 2011–12.

Prerequisite: Computer Science 161, or equivalent.

[Computer Science 262. Introduction to Distributed Computing]

Catalog Number: 7949

James H. Waldo

Half course (spring term). M., W., 4–5:30.

Examination of the special problems associated with distributive computing (e.g., partial failure and lack of global knowledge) and protocols that function in the face of these problems.



Emphasis on causal ordering, event and RPC-based systems.

Note: Expected to be given in 2011–12.

Prerequisite: Computer Science 161 or permission of instructor.

[Computer Science 263r (formerly Computer Science 263). Wireless Sensor Networks]

Catalog Number: 6846

Matthew D. Welsh

Half course (spring term). Tu., Th., 2:30–4.

Recent advances in wireless communications and sensor networks. Wireless networking, routing, standards including 802.11, Bluetooth, and 802.15.4. Embedded OS, programming tools, applications, and security. Students read research papers and undertake a research project.

Note: Expected to be given in 2011–12.

Prerequisite: Computer Science 161 or Computer Science 143.

Computer Science 264. Massively Parallel Computing

Catalog Number: 37157

Nicolas Pinto

Half course (spring term). Tu., Th., 7:35–9:35 p.m.

This course is an introduction to several modern parallel computing approaches and languages. Covers programming models, hardware architectures, multi-threaded programming, GPU programming with CUDA, cluster computing with MPI, cloud computing, and map-reduce using Hadoop and Amazon's EC2. Students will complete readings, programming assignments, and a final project.

Computer Science 265. Database Systems

Catalog Number: 2083

Margo I. Seltzer

Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16

A research-oriented introduction to Database Management systems. First third covers database design, implementation, and use. Topics include: network, relational, and object oriented database models, system architectures, transaction processing, system implementation, and SQL. Remaining two-thirds address research literature surrounding database systems, including an historical perspective, the emergence of relational and object-oriented systems, concurrency control, and distributed systems. Students will be expected to undertake a final research project.

Prerequisite: CS 165 or permission of instructor.

[*Computer Science 266. Biologically-Inspired Distributed and Multi-Agent Systems]

Catalog Number: 0766 Enrollment: Limited to 16.

Radhika Nagpal

Half course (spring term). Tu., Th., 11:30–1.

Surveys biologically-inspired approaches to designing distributed systems. Focus is on algorithms, analysis, and programming paradigms. Topics: swarm intelligence, amorphous computing, immune-inspired systems, synthetic biology. Discussion of research papers and a research project required.

Note: Expected to be given in 2011–12. Geared toward graduate students of all levels as well as advanced undergraduates. Preference given to graduate students or upper-level concentrators.



Prerequisite: Experience with algorithms (e.g. Computer Science 124) and programming (e.g. Computer Science 51).

[Computer Science 277. Geometric Modeling in Computer Graphics]

Catalog Number: 3067

Steven J. Gortler

Half course (spring term). M., W., 4–5:30.

Advanced seminar in computer graphics focusing on geometric representations and processing. Topics include: direct manipulation, implicit surfaces, spline presentations, recursively subdivided surfaces, model simplification, surface parameterization and processing, mesh generation, and motion capture processing.

Note: Expected to be given in 2011–12.

Prerequisite: Computer Science 175.

[Computer Science 278. Rendering and Image Processing in Computer Graphics]

Catalog Number: 4883

Steven J. Gortler

Half course (spring term). M., W., 4–5:30.

Advanced course in computer graphics focusing on image rendering and processing. Topics include: light transport, efficient rendering, image based rendering, texture processing, interactive image processing.

Note: Expected to be given in 2011–12.

Prerequisite: Computer Science 175 or permission of instructor.

***Computer Science 279r (formerly *Computer Science 279). Topics in User Interfaces**

Catalog Number: 1435 Enrollment: Limited to 12.

Krzysztof Z. Gajos

Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

Current topics and research methods in HCI. Course involves discussion of primary literature, lectures, and research-oriented project. The focus is on developing skills to conduct novel research involving design and evaluation of interactive systems.

Computer Science 283. Computer Vision

Catalog Number: 4475

Todd Zickler

Half course (fall term). F., 1–4. EXAM GROUP: 6, 7, 8

Vision as an ill-posed inverse problem: image formation, two-dimensional signal processing; image enhancement and restoration; feature analysis; image segmentation; structure from motion, texture, and shading; multiple view geometry; pattern classification; and applications.

Computer Science 285. Multi-Agent Systems

Catalog Number: 1060

David C. Parkes

Half course (fall term). Tu., Th., 11:30–1.

Algorithmic, game-theoretic and logical foundations of multi-agent systems, including distributed optimization and problem solving, non-cooperative game theory, learning and



teaching, communication, social choice, mechanism design, auctions, negotiation, coalitional game theory, logics of knowledge and belief, collaborative plans and social systems.

Prerequisite: Computer Science 181 or 182, or permission of instructor.

Computer Science 286r. Topics at the Interface between Computer Science and Economics

Catalog Number: 1099 Enrollment: Limited to 20.

Yiling Chen

Half course (fall term). M., W., 1–2:30.

Interplay between computation and economics. Topics in electronic commerce, computational social choice, computational mechanism design, peer production, prediction markets and reputation systems. Readings in AI, theoretical CS, multi-agent systems, economic theory, and operations research. Fall 2010: Information, Prediction, and Collective Intelligence. *Prerequisite:* Mathematics 21b, Applied Mathematics 21b, or equivalent; Computer Science 124, and 181 or 182, or equivalents; or permission of instructor.

Prerequisite: Mathematics 21b, Applied Mathematics 21b, or equivalent; Computer Science 124, and 181 or 182, or equivalents; or permission of instructor.

[Computer Science 287r. Natural Language Processing]

Catalog Number: 3306

Stuart M. Shieber

Half course (spring term). Tu., Th., 2:30–4.

In-depth investigation of natural-language-processing techniques. Topics include: finite-state, context-free, and trans-context-free formalisms, syntactic analysis, semantic interpretation, weighted automata and transducers. Students discuss research papers and undertake a significant research project.

Note: Expected to be given in 2011–12.

Prerequisite: Computer Science 187 or permission of instructor.

Computer Science 299r. Special Topics in Computer Science

Catalog Number: 4592

John G. Morrisett

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

Supervision of experimental or theoretical research on acceptable computer science problems and supervision of reading on topics not covered by regular courses of instruction.

Note: Open to graduate students and AB/SM candidates only. Students must arrange such work with a member of the School of Engineering and Applied Sciences. This course is graded and is ordinarily taken with the approval of the Committee on Higher Degrees. Applicants must file a project sheet before study cards are filed. Project sheets may be obtained from the Academic Office, Pierce Hall 110.

Graduate Courses of Reading and Research

Reading courses are odd-numbered; research courses are even-numbered.

***Computer Science 307,308. Biologically-Inspired Multi-Agent Systems, Distributed Systems, and Computational Biology**



Catalog Number: 8289,8308
Radhika Nagpal 5068

***Computer Science 309,310. Computational Mechanism Design, Electronic Marketplaces, and Multi-Agent Systems**

Catalog Number: 8764,0931
David C. Parkes 4202

***Computer Science 311,312. Collaborative Systems, AI Planning, and Natural Language Processing**

Catalog Number: 4677,6223
Barbara J. Grosz 1599

***Computer Science 313,314. Visual Computing**

Catalog Number: 4273,1628
Hanspeter Pfister 5882

***Computer Science 315,316. Social Computing: Computation and Economics**

Catalog Number: 2892,2433
Yiling Chen 6187

***Computer Science 319,320. Distributed Systems, Operating Systems, and Networks**

Catalog Number: 8038,8568
Matthew D. Welsh 4600 (on leave 2010-11)

***Computer Science 321,322. Databases, Operating System, and Software Design**

Catalog Number: 4085,4086
Margo I. Seltzer 3371

***Computer Science 323,324. Human-Computer Communication through Natural, Graphical, and Artificial Languages**

Catalog Number: 2450,2453
Stuart M. Shieber 2456

***Computer Science 325,326. Intelligent Interactive Systems and Human-Computer**

Catalog Number: 15849,82478
Krzysztof Z. Gajos 6339

***Computer Science 327,328. Mathematical Logic, Theory of Computation**

Catalog Number: 1160,3576
Harry R. Lewis 4455

***Computer Science 343,344. Computer Architecture: Modeling and Design**

Catalog Number: 3932,9266
David M. Brooks 4222 (on leave spring term)



***Computer Science 345,346. High-Performance Computer Systems**

Catalog Number: 6154,6156

Michael D. Smith 3372

***Computer Science 347,348. Computer Vision**

Catalog Number: 1882,8831

Todd Zickler 5143

***Computer Science 351,352. Cryptography: Unbreakable Codes and Financial Cryptography**

Catalog Number: 0218,0255

Michael O. Rabin 7003 (on leave spring term)

***Computer Science 353,354. Representation and Reasoning, Machine Learning and Decision Making**

Catalog Number: 6816,1843

Avrom J. Pfeffer 2830

***Computer Science 355,356. Computational Complexity, Parallel Computation, Computational Learning, Neural Computation**

Catalog Number: 0345,0346

Leslie G. Valiant 7396

***Computer Science 357,358. Computational Complexity, Cryptography, and Pseudorandomness**

Catalog Number: 3485,8641

Salil P. Vadhan 3833

***Computer Science 359,360. On-line Algorithms and Randomized Algorithms**

Catalog Number: 2104,1477

Michael D. Mitzenmacher 7748

***Computer Science 361,362. Programming Languages and Semantics**

Catalog Number: 8672,8366

John G. Morrisett 4853 (on leave fall term)

***Computer Science 363,364. Programming Languages and Security**

Catalog Number: 52264,67371

Stephen N. Chong 6340

***Computer Science 365. SEAS Teaching Practicum**

Catalog Number: 8195

John Andrew Girash 6894

Half course (spring term). Tu., 3–5.

Gain effective skills for teaching applied sciences. Topics: presentation and communication, lesson planning, classroom practice, office hours and 1-on-1 interactions, feedback, assessment,



and working with course staff. Seminar style with an emphasis on observation, practice, feedback, discussion, and reflection.

***Computer Science 375,376. Computer Graphics**

Catalog Number: 6832,7313

Steven J. Gortler 2824 (on leave 2010-11)

Cross-listed Courses

[MCB 131. Computational Neuroscience]

Statistics 221. Statistical Computing and Learning

***Statistics 285r (formerly *Statistics 385). Statistical Machine Learning**

Dramatic Arts

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Committee on Dramatics

Marjorie Garber, William R. Kenan, Jr. Professor of English and of Visual and Environmental Studies (*Chair*)

Remo Francisco Airal di, Lecturer on Dramatic Arts

Daniel Albright, Ernest Bernbaum Professor of Literature

James A. Dennen, Visiting Lecturer on Dramatic Arts (FAS only)

David A. Edwards, Gordon McKay Professor of the Practice of Biomedical Engineering

Deborah D. Foster, Senior Lecturer on Folklore and Mythology

Jeremy Geidt, Lecturer on Dramatic Arts

Jorie Graham, Boylston Professor of Rhetoric and Oratory (*on leave fall term*)

Sylvaine Guyot, Assistant Professor of Romance Languages and Literatures

William S. Lebow, Lecturer on Dramatic Arts

Elizabeth Dyrud Lyman, Assistant Professor of English and American Literature and Language

Christie McDonald, Smith Professor of French Language and Literature and of Comparative Literature (*on leave 2010-11*)

Ryan Scott Mckittrick, Lecturer on Dramatic Arts

John C. Megan, Director of the Office for the Arts at Harvard (*ex officio*)

Ingrid Monson, Quincy Jones Professor of African-American Music, Supported by the Time Warner Endowment, Dean of Arts and Humanities (*ex officio*)

Diane Paulus, Professor of the Practice of Theatre (*ex officio*)

Martin Puchner, Professor of English and of Comparative Literature



Peter Sacks, John P. Marquand Professor of English (*on leave fall term*)
Robert Scanlan, Professor of the Practice of Theatre
Elaine Scarry, Walter M. Cabot Professor of Aesthetics and the General Theory of Value
Amie Siegel, Assistant Professor of Visual and Environmental Studies (*on leave 2010-11*)
Oliver Simons, Assistant Professor of Germanic Languages and Literatures
Marcus Stern, Lecturer on Dramatic Arts (*ex officio*)
Susan R. Suleiman, C. Douglas Dillon Professor of the Civilization of France and Professor of Comparative Literature
Scott Zigler, Lecturer on Dramatic Arts

For Undergraduates and Graduates

Dramatic Arts 101 (formerly 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 and overview of the major creative elements in professional theater including: acting, directing, playwriting, and designing. Special attention given to productions by the American Repertory Theater (A.R.T.), the A.R.T. Institute and other productions in the Boston area. Students have the opportunity to attend and analyze at least five different productions and to engage in creative collaborative work throughout the term. Additionally, theater professionals from the A.R.T. give guest lectures in their areas of expertise.

***Dramatic Arts 105 (formerly *Dramatic Arts 5). Production Dramaturgy: A.R.T. 2010-11 Season**

Catalog Number: 7592 Enrollment: Limited to 12.

Ryan Scott Mckittrick

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

Principles of dramaturgy introduced and explained in the context of full productions of performance events. Focusing on productions in the American Repertory Theater's 2010-11 season, students will apply literary research and analysis techniques to the preparation of scripts for performance. Specific A.R.T. productions will serve as examples for studying historical background, dramatic structure, new play development, and action theory as they are handled by directors, actors, and dramaturgs in the rehearsal hall.

***Dramatic Arts 110 (formerly *Dramatic Arts 11). Beginning Acting**

Catalog Number: 3321 Enrollment: Limited to 20.

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 with an ongoing emphasis in improvisation. The texts of Anton Chekhov will be used as a point of reference for the work. The latter part of the course will concentrate on selected scene study from Chekhov's major plays.

Note: Enrollment determined by audition. Students will audition for the course with a short improvisation described by the professor at the first class meeting.



***Dramatic Arts 110a. Acting Lab: The Fusion of Intellect and Imagination for the Stage - (New Course)**

Catalog Number: 35526 Enrollment: Limited to 20.

Thomas Derrah

Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

Following guidelines without a prescribed text, students will work on physical and vocal invention, exploring the many ways and styles in which dynamic and compelling stories can be told. In this course, we will aim to heighten imagination and observation, build confidence, and enhance extemporaneous speech and thought through exercises, exploring impulses, and imaginative courage. Techniques used will include both individual and group activities, Grotowski exercises, mask work, and classical commedia dell'arte.

Note: Enrollment determined by audition. Students will audition for the course with a short improvisation described by the professor at the first class meeting.

Dramatic Arts 111 (formerly Dramatic Arts 17). Acting: 20th Century Texts

Catalog Number: 9738

Karen L. MacDonald

Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

An expansion of basic acting techniques, with an emphasis on the actor's work done during rehearsal: creating a character, building a role and finding one's own way of preparing for and making the most of rehearsal time. Actors will use exercises and improv to help explore character and sharpen instincts, and do monologue and scene work using contemporary texts, both comic and dramatic.

Note: Enrollment determined by audition.

[*Dramatic Arts 112r (formerly *Dramatic Arts 18r). Advanced Acting: 20th-Century Texts]

Catalog Number: 8011

Marcus Stern

Half course (fall term). Tu., 1–3.

For actors interested in working in television, film and theater, this is a course of advanced acting techniques using 20th-century dramatic texts for scene work. The emphasis is on action based acting and the creation of an acting process that is specifically tailored to the individual actor. Includes character work -- making physical and vocal changes. Emphasis also on learning how to audition better, includes helping actors assemble a group of working monologues to use in auditions.

Note: Expected to be given in 2011–12. Enrollment determined by audition on the first day of class.

***Dramatic Arts 114 (formerly Dramatic Arts 36). Practical Aesthetics**

Catalog Number: 8994 Enrollment: Limited to 16.

Scott Zigler

Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

Practical Aesthetics Acting Technique was developed by playwright David Mamet and actor William H. Macy, based on the work of the American acting teacher Sanford Meisner and the Russian acting teacher Konstantin Stanislavski. In this course, students will focus on rigorous



text analysis combined with emphasis on enhancing the actor's spontaneity through training in Meisner's "Repetition Exercise." Students will do scene work drawn from a wide selection of plays.

Note: Enrollment will be determined by lottery at the first class meeting.

Prerequisite: Dramatic Arts course in Acting, previous study in Practical Aesthetics, or extensive undergraduate performance experience.

***Dramatic Arts 115 (formerly *Dramatic Arts 12). Acting Shakespeare**

Catalog Number: 6659 Enrollment: Limited to 20.

Jeremy Geidt

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

Investigation of the texts of Shakespeare as theatre, developing an American approach to verse speaking and character analysis. Scenes are rehearsed to interpret the verse and prose by the light of modern experience. Explores the imagination of the playwright in order to develop the imagination of the student.

[*Dramatic Arts 116 (formerly Dramatic Arts 13). Acting Workshop: Comedy]

Catalog Number: 9926 Enrollment: Limited to 16.

William S. Lebow

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

A course developing the actor's approach to and playing of comedy and humor. Using characters and scenes from Shakespeare, Molière, Shaw, and contemporary writers from Christopher Durang to Steve Martin, the course focuses on the universality of comic technique and the specific demands of comic playing. The question of humor is explored with respect to dramatic situations and characters that are inherently serious. Student scenes will occasionally be critiqued by members of the A.R.T. Company.

Note: Expected to be given in 2011–12. Enrollment determined by audition on the first day of class. Students are asked to prepare a 30 second comic monologue, classical or contemporary, for the audition.

***Dramatic Arts 117 (formerly *Dramatic Arts 35). Acting Chekhov**

Catalog Number: 1465 Enrollment: Limited to 14.

Remo Francisco Airaldi

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

An exploration of Chekhov's plays from an actor's point of view in order to develop a practical approach to any dramatic text. We will balance the use of analytical skills - playable actions, active verbs, subtext and beats - with the need to free the actor's creative imagination, through exercises and improvisations. A variety of acting techniques will be used in scene work from the plays, including the techniques of Stanislavski, Michael Chekhov, Strasberg, Adler and Meisner as well as non-text-based approaches.

Note: Enrollment determined by audition. Each student will be asked to read a selection from one of Chekhov's plays. No memorization required.

Dramatic Arts 119 (formerly Dramatic Arts 28). Vocal Production for the Stage

Catalog Number: 8900 Enrollment: Limited to 18.

Nancy K. Houfek



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

Whether one is performing in a play, speaking professionally, teaching a class or leading a group, the ability to use one's voice effectively is a primary element of the success of the presentation. Using several major techniques of speaking training, students learn not only how to use the voice, but how these various approaches to voice training correspond to specific performance challenges.

Note: Enrollment determined by interview.

Dramatic Arts 120 (formerly *Dramatic Arts 14). Introduction to Choreography

Catalog Number: 2983

Jessica Berson

Half course (fall term). Tu., Th., 3:30–5:30. EXAM GROUP: 17, 18

This introductory choreography course utilizes movement exploration to tap into the participant's aesthetic and interpretive skills as they are challenged to make dances. Explorations into the use of time, weight and space inform their creative process. Through a combination of readings, writings, discussions, videos and dance improvisation, the course focuses on how movement choices develop dances that are kinesthetic, dramatic, and artistic for both the performer and the audience. No previous dance experience necessary.

Note: Enrollment determined by interview during the first week of class.

***Dramatic Arts 130r (formerly *Dramatic Arts 130). Directing**

Catalog Number: 8160 Enrollment: Limited to 9.

Marcus Stern

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

A directing class for directors interested in theater, television and film, as well as for actors, dramaturgs, and designers investigating all aspects of theater. The class accommodates beginning to advanced levels of work. Students may bring in video or film scenes as part of the class work. Through constant scene work the course examines the directorial tools of text analysis, staging, design, and working with actors. The focus is on how to tell a story clearly and effectively.

Note: Enrollment determined by short interviews to be conducted on the first day of class.

***Dramatic Arts 131. Directing Lab - (New Course)**

Catalog Number: 50633 Enrollment: Limited to 12.

Marcus Stern

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

This class is designed for students interested in directing either theater or film. The course consists of numerous short assignments throughout the semester where students create a variety of short pieces (either live or on film) that experiment with how form and content can influence each other when directors tell stories. The class accommodates beginning to advanced levels of work.

Note: Enrollment determined by short interview to be conducted on the first day of class.

Dramatic Arts 135 (formerly Dramatic Arts 30). Design for the Theatre: History and Practice

Catalog Number: 9503 Enrollment: Limited to 12.



J. Michael Griggs

Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16

The practice of designing scenery for the theatre is explored through the history of stage design and the architecture of the theater building. Students complete projects of research and design for plays from various periods. The projects will introduce basic techniques in drawing, drafting, and model making. No previous experience in design or art necessary.

***Dramatic Arts 136 (formerly *Dramatic Arts 31). Designing for the Stage**

Catalog Number: 1116 Enrollment: Limited to 12.

J. Michael Griggs

Half course (spring term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16

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. No previous experience in design or art necessary.

Dramatic Arts 160x. Surveillance, Performance, and Culture - (New Course)

Catalog Number: 74978

Elise R. Morrison

Half course (fall term). M., 1–3:30. EXAM GROUP: 6, 7, 8

Through a mix of theoretical and practical explorations, introduces students to a range of social, political, and artistic applications of surveillance technologies in the 20th and early 21st Centuries. Beginning with foundational cultural theories of discipline and social subjecthood in modernity, we will examine surveillance technologies as tools of socio-political discipline, their ongoing impact, and contemporary theatre and performance work that engages with and responds to them, for instance the work of the Surveillance Camera Players, the Institute for Applied Autonomy, and the Shunt Collective; Reality TV, social software systems such as Facebook, etc.

***Dramatic Arts 161x. Improvisational Theory and Practice - (New Course)**

Catalog Number: 88044 Enrollment: Limited to 18.

James A. Dennen

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

Through embodied practice and critical investigation, this course aims to cultivate an understanding of improvisation as a discrete mode of performance, as a constituent element of all theatrical and performance arts, and as a practice and function of everyday life. We will look at historical practices of improvisation including 17th-and 18th-century commedia dell'arte, 19th-century French boulevard pantomime blanche, 20th-century North American (historical) avant-garde theatre; the cinema of Jean Rouch, Orleans, Bebop, and Free Jazz, as well as performances not typically associated with improvisation, including early Shakespearean production, Brechtian theatre, and late 20th-century feminist theatres.

Dramatic Arts 162x. Where Dance Meets Performance Art - (New Course)

Catalog Number: 36522

Jessica Berson



Half course (spring term). Tu., Th., 4–5:30. EXAM GROUP: 18

This course focuses on body-based performance practices that emerged in the 1960s and 1970s through a combination of studio- and seminar-based work. Our goal is to develop an understanding of the overlapping methodologies that were explored in performance art and postmodern dance, both in relation to their historical/political contexts and as potentially generative structures for devising your own performances. The class culminates with a publicly-performed piece that utilizes the research undertaken throughout the course.

Cross-listed Courses

[Aesthetic and Interpretive Understanding 24 \(formerly Literature and Arts B-51\). First Nights: Five Performance Premieres](#)

[Aesthetic and Interpretive Understanding 31 \(formerly Literature and Arts B-85\).](#)

[American Musicals and American Culture](#)

[African and African American Studies 111. Spectral Fictions, Savage Phantasms: Race and Gender in Anti-Racist South African and African American Drama, Fiction and Film - \(New Course\)](#)

[African and African American Studies 142. Hiphop and Don't Stop: 15 Years of Hiphop Scholarship - \(New Course\)](#)

[*English Cakr. Advanced Playwriting](#)

[*English Calr. Dramatic Screenwriting II](#)

[*English Camr. Advanced Playwriting 2: Production Workshop](#)

[*English Ckr. Introduction to Playwriting](#)

[*English Clr. Dramatic Screenwriting I](#)

[*English 71. Shakespeares: Talking Back to Shakespeare - \(New Course\)](#)

[*English 90ab. American "Realists": O'Neill, Williams, Miller: Seminar](#)

[*English 90pb. Dramatic Structure and Analysis: Seminar](#)

[*English 90qe. Pinter Churchill Stoppard Frayn: Seminar](#)

[*English 90sb. Samuel Beckett's Plays and Prose: Seminar](#)

[*English 90ws. Wilde and Shaw: Seminar - \(New Course\)](#)

[English 124d. Shakespearean Tragedy - \(New Course\)](#)

[English 162m. Modernism as Theatre - \(New Course\)](#)

[*English 224. Shakespeare and Myth: Graduate Seminar - \(New Course\)](#)

[Folklore and Mythology 114. Embodied Expression/Expressive Body: Dance in Cultural Context](#)

[*French 61a \(formerly French 48b\). Classicism and Modernity: An Introduction to Performance](#)

[French 142. Rencontres et face à face au 17e siècle - \(New Course\)](#)

[*French 148b. Mettre en scène les classiques. Monter *L'Illusion comique* - \(New Course\)](#)

[*Freshman Seminar 33x. Complexity in Works of Art: Ulysses and Hamlet](#)

[*Freshman Seminar 34m. Leonard Bernstein and His World](#)

[*Freshman Seminar 35n. The Art and Craft of Acting - \(New Course\)](#)

[*Freshman Seminar 35s. Movement and Meaning: Dance, Culture, and Identity in the 20th Century](#)

[*Freshman Seminar 36o. The Trials of Socrates - \(New Course\)](#)

[German 50. German Drama and Theater](#)



[German 123. Fear and Pity: German Tragedies from the 18th to the 20th Century]

[Greek 106. Greek Tragedy](#)

[Italian 40. Advanced Oral Expression: Teatro dal vivo](#)

[Latin 129. Senecan Tragedies - \(New Course\)](#)

[Yiddish 110. Yiddish Drama on Stage and Screen]

Earth and Planetary Sciences

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Department of Earth and Planetary Sciences

John H. Shaw, Harry C. Dudley Professor of Structural and Economic Geology, Harvard College Professor (*Chair*)

Jeremy Bloxham, Mallinckrodt Professor of Geophysics and Professor of Computational Science, Dean of Science

James L. Davis

Brian F. Farrell, Robert P. Burden Professor of Meteorology (*on leave spring term*)

Colleen M. Hansel, Assistant Professor of Environmental Microbiology

John P. Holdren, Professor of Environmental Science and Public Policy

Peter John Huybers, Assistant Professor of Earth and Planetary Sciences, Professor of Earth and Planetary Sciences

Miaki Ishii, Associate Professor of Earth and Planetary Sciences

Daniel J. Jacob, Vasco McCoy Family Professor of Atmospheric Chemistry and Environmental Engineering

Stein B. Jacobsen, Professor of Geochemistry

Hillary S. Jenkins, Preceptor in Earth and Planetary Sciences

David T. Johnston, Assistant Professor of Earth and Planetary Sciences

Andrew H. Knoll, Fisher Professor of Natural History and Professor of Earth and Planetary Sciences

Zhiming Kuang, Associate Professor of Earth and Planetary Sciences

Charles H. Langmuir, Higgins Professor of Geochemistry (*on leave 2010-11*)

Francis Alexander Macdonald, Assistant Professor of Earth and Planetary Sciences

James J. McCarthy, Professor of Biological Oceanography

Michael B. McElroy, Gilbert Butler Professor of Environmental Studies (*on leave spring term*)

Brendan J. Meade, Associate Professor of Earth and Planetary Sciences

Jerry X. Mitrovica, Professor of Geophysics

Sujoy Mukhopadhyay, Associate Professor of Geochemistry (*Co-Director of Graduate Studies*)

Richard J. O'Connell, Professor of Geophysics



Ann Pearson, Professor of Biogeochemistry (*Co-Head Tutor*)
James R. Rice, Mallinckrodt Professor of Engineering Sciences and Geophysics
Daniel P. Schrag, Sturgis Hooper Professor of Geology and Professor of Environmental Science and Engineering
Sarah Stewart-Mukhopadhyay, John L. Loeb Associate Professor of the Natural Sciences (*Co-Head Tutor*)
Eli Tziperman, Pamela and Vasco McCoy, Jr. Professor of Oceanography and Applied Physics (*Co-Director of Graduate Studies*)
Steven C. Wofsy, Abbott Lawrence Rotch Professor of Atmospheric and Environmental Science, Area Dean for Environmental Science and Engineering

Other Faculty Offering Instruction in the Department of Earth and Planetary Sciences

James G. Anderson, Philip S. Weld Professor of Atmospheric Chemistry
Scot T. Martin, Gordon McKay Professor of Environmental Chemistry

For more information about Earth and Planetary Sciences, please visit the department's website at www.eps.harvard.edu.

Primarily for Undergraduates

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

Catalog Number: 2207

Steven C. Wofsy and Daniel J. Jacob

Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16

An introduction to the scientific basis for current concerns regarding possible changes in the global environment. Issues addressed include climate; depletion of stratospheric ozone; regional air pollution; acid rain; disturbance of biogeochemical cycles for life-essential elements C, N, P, and S.

Note: This course, when taken for a letter grade, meets the General Education requirement for Science of the Physical Universe or the Core area requirement for Science A.

Earth and Planetary Sciences 7. Introduction to Geological Sciences

Catalog Number: 0918

Sujoy Mukhopadhyay and Miaki Ishii

Half course (fall term). M., W., F., at 10, and three hours of laboratory work each week and two day-long field trips on separate weekends required. EXAM GROUP: 3

A course designed for concentrators but also appropriate for non-concentrators who desire a broad introduction to Earth science. Evolution of the Earth with an emphasis on the processes that have shaped our planet. The theory of plate tectonics is used to explain the occurrence and distribution of earthquakes, volcanoes and mountains. Labs and the weekend field trips familiarize students with rock types, geological features, and illustrate how geologists infer processes from the rock record.

Note: Also appropriate for non-EPS concentrators who desire a comprehensive introduction to



Earth science. This course, when taken for a letter grade, meets the General Education requirement for Science of the Physical Universe or the Core area requirement for Science A.

Earth and Planetary Sciences 8. History of the Earth

Catalog Number: 0166

Peter John Huybers and Andrew H. Knoll

Half course (spring term). Tu., Th., 10–11:30, and two hours of laboratory work each week as well as one field trip. EXAM GROUP: 12, 13

Examines the major stages and critical events in the history of the Earth, with emphasis on the interactions between global tectonics, the climate system, and biological evolution. Topics range from the formation of the Earth and other planets, to catastrophic events that drove mass extinctions, to the most recent period of human interaction with the environment. Laboratories introduce methods of investigation and analysis of the geological record.

Prerequisite: Secondary-school courses in science (physics, chemistry, biology) and calculus.

***Earth and Planetary Sciences 74. Field Experiences in Earth and Planetary Sciences**

Catalog Number: 7239

Francis Alexander Macdonald

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

Attend a domestic or overseas geological summer field school of 3-6 weeks duration to learn methods of obtaining, synthesizing, and interpreting field observations.

Note: Field schools are selected individually by students with the advice and approval of the instructor. Students must notify the instructor and Academic Administrator of intention to enroll by Study Card Day of the preceding spring term.

Prerequisite: EPS 7, 8, 150, or 171, are recommended; or permission of instructor.

Earth and Planetary Sciences 91r. Supervised Reading and Research

Catalog Number: 1462

Ann Pearson and members of the Department

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

Supervised reading and research on topics not covered by regular courses of instruction.

Note: Usually intended for junior or senior concentrators in Earth and Planetary Sciences; open to sophomore concentrators under some circumstances. To enroll students must submit a registration form, which includes permission of their faculty sponsor, to the Academic Administrator.

Earth and Planetary Sciences 99r. Tutorial — Senior Year

Catalog Number: 7120

Sarah Stewart-Mukhopadhyay, Ann Pearson, and members of the Department

Full course. Hours to be arranged.

Research and writing of the senior thesis under faculty direction.

Note: Senior honors candidates must take at least one term of this course (fall or spring) if writing a thesis; an oral presentation is required. Enrollment includes an informal tutorial series on how to get the most from your thesis experience. To enroll students must submit a registration form, which includes permission of their faculty sponsor, to the Academic Administrator.



Cross-listed Courses

Astronomy 16. Stellar and Planetary Astronomy

For Undergraduates and Graduates

[Earth and Planetary Sciences 100. The Missing Matlab Course: An Introduction to Programming and Data Analysis]

Catalog Number: 0235

Brendan J. Meade and Miaki Ishii

Half course (spring term). M., W., 2:30-4, and three hours of laboratory work each week.

An overview of modern computational tools with applications to the Earth Sciences. Introduction to the MATLAB programming and visualization environment. Topics include: statistical and time series analysis, visualization of two- and three-dimensional data sets, tools for solving linear/differential equations, parameter estimation methods. Labs emphasize applications of the methods and tools to a wide range of data in Earth Sciences.

Note: Expected to be given in 2011–12. Given in alternate years.

Prerequisite: Mathematics 1a, b; or equivalent.

[Earth and Planetary Sciences 107. Environmental Geochemistry]

Catalog Number: 1242

Sujoy Mukhopadhyay and Ann Pearson

Half course (spring term). Tu., Th., 11:30–1.

An overview of low-temperature geochemistry through the treatment of a selection of geochemical issues of environmental significance. Each unit places geochemical topics in the context of a broader geological perspective with particular emphasis on chemical principles. Students from all concentrations are welcome.

Note: Expected to be given in 2011–12. Given in alternate years.

Prerequisite: A course in college-level chemistry or permission of the instructors.

Earth and Planetary Sciences 109. Earth Resources and the Environment

Catalog Number: 2218

John H. Shaw

Half course (spring term). Tu., Th., 10-11:30, and three hours of laboratory work each week.

EXAM GROUP: 12, 13

An overview of the Earth's energy and material resources. Following introductions to hydrocarbons, nuclear fuels, and other economically important ores, the course emphasizes methods used to exploit these resources and the environmental impacts of these operations. Topics include: coal and acid rain; petroleum, photochemical smog, and oil spills; nuclear power and radioactive hazards; alternative energies; metals and mining. Labs emphasize methods for discovering and exploiting resources, as well as environmental remediation approaches.

Note: Given in alternate years. This course, when taken for a letter grade, meets the General Education requirement for Science of the Physical Universe or the Core area requirement for Science A.

Prerequisite: EPS 7, 8; or permission of the instructor.



[Earth and Planetary Sciences 121. Terrestrial Planets]

Catalog Number: 8577

Sarah Stewart-Mukhopadhyay

Half course (spring term). Tu., Th., 1–2:30.

The physical and chemical processes that influence the initial condition, evolution, and current state of terrestrial planets, focusing on the comparative evolution of Venus, Earth, Mars, and large moons. Topics include: planet formation, evolution of atmospheres, interior composition and equations of state, core formation, differentiation, thermal evolution, and major surface modification processes.

Note: Expected to be given in 2011–12. Given in alternate years.

Prerequisite: Physics 11a, b; or permission of instructor.

[Earth and Planetary Sciences 131. Introduction to Physical Oceanography and Climate]

Catalog Number: 2249

Eli Tziperman

Half course (spring term). M., Th., 2:30–4.

Basic observations and theoretical understanding of ocean phenomena from local surface beach waves to the effects of the oceans on global climate. Observations and dynamics of ocean waves, currents, turbulence, temperature and salinity distributions; basic fluid dynamics equations; the ocean's role in climate: wind-driven circulation and the Gulf stream, thermohaline circulation and the potential instability of Europe's climate, El Niño, the oceans and global warming.

Note: Expected to be given in 2011–12. Given in alternate years. When offered, a field trip to Cape Cod and the Woods Hole Oceanographic Institution will be included.

Prerequisite: Applied Mathematics 21a, b; Physics 11 or 15; or permission of instructor.

[Earth and Planetary Sciences 132. Introduction to Meteorology and Climate]

Catalog Number: 8495

Brian F. Farrell

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

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.

Note: Expected to be given in 2011–12.

Prerequisite: Mathematics 21 or Applied Mathematics 21a and 21b; Physics 11 or 15; or permission of instructor.

Earth and Planetary Sciences 133. Atmospheric Chemistry

Catalog Number: 7731

Daniel J. Jacob and Steven C. Wofsy

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

Physical and chemical processes determining the composition of the atmosphere and its implications for climate, ecosystems, and human welfare. Origin of the atmosphere. Nitrogen, oxygen, carbon, sulfur, trace metal cycles. Climate and the greenhouse effect. Atmospheric transport and turbulence. Stratospheric ozone. Oxidizing power of the atmosphere. Regional air



pollution: aerosols, smog, acid rain.

Note: This course, when taken for a letter grade, meets the General Education requirement for Science of the Physical Universe and the Core area requirement for Science A.

Prerequisite: Physical Sciences 1, 2, Mathematics 1b; or equivalents.

[Earth and Planetary Sciences 134. Global Warming Debates: The Reading Course]

Catalog Number: 45399

Peter John Huybers and Eli Tziperman

Half course (spring term). W., 3-6, and weekly lab to be arranged.

The atmospheric carbon dioxide concentration is now the highest it has been in at least 800,000 years, raising concerns regarding possible future climate changes. This seminar will survey the science of global change from the perspective of scientific debates within climate community. Specifically, the course will involve guided reading and discussion of papers that present contentious view points on the science of global change, with the goal of students learning how to scientifically evaluate these claims. Laboratories will provide students with hands on experience with some climate models and data.

Note: Expected to be given in 2011–12. Given in alternate years.

Prerequisite: Applied Mathematics 21a or equivalent, or permission of instructor.

Earth and Planetary Sciences 135. Physics and Chemistry: In the Context of Energy and Climate at the Global and Molecular Level - (New Course)

Catalog Number: 79597 Enrollment: Limited to 30.

James G. Anderson

Half course (spring term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16

A solution to the problems set by the intersection of global energy demand and climate feedbacks requires the teaching of physics and chemistry in that context. Core topics include thermodynamics, free energy, entropy, acid-base and oxidation-reduction reactions, electrochemistry, electromagnetic induction, circuit theory, AC and DC circuits, the nature of photons and of electromagnetic radiation, photochemistry, materials, catalysis, kinetics, molecular bonding, and biological processes for energy conversion and storage.

Prerequisite: Physical Sciences 1 or permission of instructor.

Earth and Planetary Sciences 141. Isotope and Trace Element Geochemistry and Geochronology

Catalog Number: 7724

Stein B. Jacobsen

Half course (fall term). Tu., Th., 1–2:30.

The origin of the element and isotope distribution in the Earth and the Solar System. Closed system radioactive decay, isotope fractionation, mass balance and mixing. Application of Rb-Sr, Sm-Nd, U-Th-Pb, Lu-Hf, Re-Os and K-Ar isotope systems for geochronology and as tracers for geological processes. Noble gas geochemistry. Extinct nuclides. Cosmogenic nuclides. U-Th-series nuclides. Planetary isotopic evolution. Stable isotope geochemistry. Application of H, C, N, O, and S isotopes as tracers of geochemical and biogeochemical processes.

Note: Given in alternate years.

Prerequisite: A course in college-level chemistry or equivalent; EPS 7 or equivalent (recommended).


[Earth and Planetary Sciences 145. Introduction to Igneous Petrology and Petrogenesis]

Catalog Number: 5940

Charles H. Langmuir
Half course (fall term). M., W., 2:30-4, and a three-hour weekly lab.

How igneous rocks form and reveal the processes and fluxes involved in the circulation of the solid Earth. The course begins with the essential elements of igneous petrology—rock description and nomenclature, mineralogy, phase diagrams, processes of melting and crystallization, trace elements. We then consider the formation of igneous rocks at modern igneous settings—spreading centers, convergent margins and ocean islands. We conclude with investigations of igneous phenomenon of the past, such as large igneous flood basalt provinces, anorthosites, komatites and the igneous history of the Moon.

Note: Expected to be given in 2011–12. Given in alternate years.

[Earth and Planetary Sciences 150. Earth-like Planets and Planetary Materials]

Catalog Number: 4726

Stein B. Jacobsen
Half course (spring term). Tu., Th., 1-2:30, lab: F., 1-3.

Rocks and minerals—clues to understanding the origin and evolution of planetary surface environments, crusts and mantles. Principles of mineral structures, phase equilibria, and the origin of igneous, metamorphic, and sedimentary rocks. Primitive meteorites, martian meteorites, lunar samples and terrestrial rocks, including how timescales, origin and evolution of planets can be inferred from studies of rocks and minerals. Classification, identification, chemical and isotopic measurements of rocks and minerals in the laboratory.

Note: Expected to be given in 2011–12. Given in alternate years.

Prerequisite: EPS 7 or Science A-24; a course in college-level chemistry or equivalent; or permission of instructor.

Earth and Planetary Sciences 161 (Global Tectonics). Planetary Physics and Global Tectonics

Catalog Number: 1854

Richard J. O'Connell
Half course (spring term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17

Study of the physics and tectonic processes that govern the properties and evolution of the Earth and other planets. Covers: properties of planets and their interiors; plate tectonics on the Earth; magnetic fields of the Earth and planets; deformation and heat flow and planetary thermal evolution; melting and volcanism in planets; gravity and tidal interaction.

Note: Given in alternate years.

Prerequisite: Introductory physical science and math or permission of instructor.

Earth and Planetary Sciences 166. Introduction to Seismology

Catalog Number: 1540

Miaki Ishii
Half course (fall term). Tu., Th., 2:30–4, and a three-hour weekly lab.

An overview of the basic observations and methods of seismology. Earthquake detection, geometry, characteristics and relation to tectonics. Seismic stations and different types of data (body waves, surface waves, and normal modes). One-dimensional and three-dimensional



structures of the Earth as inferred from seismology and implications for composition and dynamics. Seismic methods used in oil/gas exploration and environmental geophysics.

Note: Given in alternate years.

Prerequisite: Mathematics 21a, b or Applied Mathematics 21a, b (may be taken concurrently); or equivalent.

[Earth and Planetary Sciences 171. Structural Geology and Tectonics]

Catalog Number: 0319

John H. Shaw

Half course (fall term). Tu., Th., 10-11:30, and three hours of laboratory work each week.

An introduction to the deformation of Earth materials, including the processes of mountain building and plate tectonics, faulting and earthquakes, folding, and ductile deformation.

Structures are examined using geologic maps, balanced cross sections, seismic reflection data, satellite imagery, microscopic analysis, analog experiments, and numerical methods. Labs emphasize the applications of structural geology in the energy and environmental industries, and for assessing earthquake hazards.

Note: Expected to be given in 2011–12. Given in alternate years.

Prerequisite: EPS 7 or 8; or permission of instructor.

[Earth and Planetary Sciences 181. Historical Geobiology]

Catalog Number: 5162

Andrew H. Knoll

Half course (fall term). Tu., Th., 2:30–4.

A focused inquiry on the interactions of life and environment through geologic history. In 2009 we will focus on the Paleozoic record, including the cambrian explosion, Ordovician radiation, and Paleozoic diversity drops.

Note: Expected to be given in 2011–12. Given in alternate years.

Prerequisite: EPS 8, OEB 10; or permission of instructor.

[Earth and Planetary Sciences 182. Stratigraphy and Sedimentology]

Catalog Number: 37284

Francis Alexander Macdonald

Half course (spring term). M., W., F., at 10, a two-hour weekly lab to be arranged, and one field trip.

Techniques in interpreting paleo-environmental information from sedimentary rocks, covering grain-flow, alluvial fans, siliciclastic shelves, carbonates, glacial deposits, and deep-sea environments, and culminating with cyclo-stratigraphy and basin dynamics.

Note: Expected to be given in 2011–12. Given in alternate years.

[Earth and Planetary Sciences 186. Low Temperature Geochemistry I: Introduction to biogeochemical cycles - \(New Course\)](#)

Catalog Number: 89929 Enrollment: This course serves to prepare students for EPS 187 (offered in Spring), which is designed to elaborate on EPS 186.

David T. Johnston

Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

An introduction to low temperature stable isotope biogeochemistry. We will focus on key



biogeochemical elements and look to understand the linkages between the biosphere, atmosphere and hydrosphere. This begins with a framework for understanding isotopic fractionation: why it happens, how it is preserved, and what it can tell us about the environment. We will explore how to use isotopes to track the transfer of mass in a system, where the systems of study will range in size from a single cell (micron-scale) to world's oceans (> km-scale).

Note: Given in alternate years.

Prerequisite: A course in college chemistry is recommended.

Earth and Planetary Sciences 187 (formerly Earth and Planetary Sciences 137). Low Temperature Geochemistry II: Modern and ancient biogeochemical processes

Catalog Number: 1923

Ann Pearson

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

Introduction to biological and organic chemistry of the Earth's environment. Primary focus on formation, processing, and preservation of organic carbon, with emphasis on paleoenvironmental applications and on processes occurring at the molecular level. This class is intended to be taken in series with EPS 186, Light Stable Isotope Biogeochemistry.

Note: Given in alternate years.

Prerequisite: A course in college-level chemistry or equivalent. Chemistry 17 or 27 strongly recommended. EPS 186 strongly recommended.

***Earth and Planetary Sciences 189. Analytical and Field Methods in Geobiology - (New Course)**

Catalog Number: 26288 Enrollment: Limited to 10.

David T. Johnston and Francis Alexander Macdonald

Half course (spring term). Hours to be arranged. Regular meetings plus a three-hour weekly lab.

Introduction to geobiological research methods: We will learn low temperature geochemical techniques, light stable isotope mass-spectrometry, and other microbiology methods commonly used in geobiological research. The focus will be on the cycling of biogeochemical elements (O, C, S, and Fe) in marine sediments throughout Earth history. This is a lab-based course that will be complemented with lectures.

Note: Given in alternate years.

Prerequisite: EPS 186 and EPS 187 (or equivalent) recommended.

Cross-listed Courses

Engineering Sciences 120. Introduction to the Mechanics of Solids

Engineering Sciences 123. Introduction to Fluid Mechanics and Transport Processes

Engineering Sciences 162. Hydrology and Environmental Geomechanics

Engineering Sciences 164. Soil and Environmental Chemistry

[Engineering Sciences 166. Environmental Microbiology]

[Engineering Sciences 167. Environmental Assessment]

[OEB 107. Evolution of Plant Life in Geologic Time]

Primarily for Graduates



Earth and Planetary Sciences 200. Atmospheric Chemistry and Physics

Catalog Number: 2675

Steven C. Wofsy and Daniel J. Jacob

Half course (fall term). W., F., 10-11:30 and one to three hours of computer-based laboratory work per week. EXAM GROUP: 3, 4

Atmospheric physics and chemistry: stratospheric and tropospheric transport, photochemistry, and aerosols; stratospheric ozone loss, tropospheric pollution; biogeochemical cycles.

Note: Students specializing in this area are expected to take EPS 200 and 236. These courses may serve as an introduction to atmospheric and oceanic processes for other students with strong preparation.

Prerequisite: Applied Mathematics 105b (may be taken concurrently), Physics 11 a, b or 15; a course in college-level chemistry or equivalent, 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). W., F., 2:30-4.

The properties and processes of the solid Earth: Continuum mechanics; structure and state of the Earth's interior; gravity and the geoid; viscous creep and mantle flow; rotational dynamics; heat transport and mantle convection.

Note: Expected to be given in 2011-12. Given in alternate years.

Prerequisite: Applied Mathematics 105a, b; Physics 15 or equivalent. Preparation should be discussed with the instructor.

[Earth and Planetary Sciences 202. Mechanics in Earth and Environmental Science]

Catalog Number: 9798

James R. Rice

Half course (spring term). M., W., F., at 9.

Introduction to the mechanics of fluids and solids, organized around earth and environmental phenomena. Conservation laws, stress, deformation and flow. Inviscid fluids and ocean gravity waves; Coriolis dominated large scale flows. Viscosity and groundwater seepage; convective cells; boundary layers. Turbulent stream flows; flood surges; sediment transport. Elasticity and seismic waves. Poro-mechanics and consolidation. Creep and glacial flow. Cracking and faulting. Landslides and debris flows.

Note: Expected to be given in 2011-12. Given in alternate years.

Prerequisite: Calculus-based introductory physics at level of Physics 11a, b or 15a, b and Mathematics at the level of Applied Mathematics 21a, 21b, and 105b (may be taken concurrently).

[Earth and Planetary Sciences 203. Earthquakes and Faulting]

Catalog Number: 4472

Brendan J. Meade, James R. Rice, and John H. Shaw

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

Earthquake phenomenology in the context of plate tectonics. Continuum mechanics and elastic deformation; seismic wave radiation. Earthquake cycle models and constraints from tectonic



geodesy. Earthquake geology and paleoseismology. Source physics, fault friction, rupture dynamics. Deformation rates and fault system structure. Quantitative seismic hazard analysis.

Note: Expected to be given in 2011–12. Given in alternate years.

Prerequisite: Applied Mathematics 21a, b.

[Earth and Planetary Sciences 204 (formerly Earth and Planetary Sciences 267). Global Seismology]

Catalog Number: 4091

Miaki Ishii

Half course (fall term). Tu., Th., 2:30–4.

Fundamental concepts used in seismology as a tool in studying the Earth's deep interior. Topics include stress/strain/elasticity theory, the seismic wave equation, ray theory, surface waves and normal modes, source theory, and inverse methods.

Note: Expected to be given in 2011–12. Given in alternate years.

Prerequisite: Applied Math 105b (may be taken concurrently), or permission of instructor.

[Earth and Planetary Sciences 206. Space Geodesy for Earth Scientists]

Catalog Number: 8218

James L. Davis

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

Space geodesy for Earth systems. Measurement of geophysical signals from space geodetic observations. Crustal deformation from tectonic, loading, and other origins; gravity changes due to mass redistribution (glacier melting, water cycle, glacial isostatic adjustment); atmospheric studies, including GPS-occultation and tomography; applications to oceans and glaciers. Ground- and space-based measurement systems (GPS, GRACE, COSMIC, etc.).

Note: Expected to be given in 2011–12. Given in alternate years.

[*Earth and Planetary Sciences 207r. Geochemical Oceanography]

Catalog Number: 1602

Daniel P. Schrag

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

Topics in low-temperature geochemistry, oceanography, and climatology will be discussed.

Students will read and present journal articles on relevant topics, and will rotate responsibility for leading discussions.

Note: Expected to be given in 2011–12. Given in alternate years.

Earth and Planetary Sciences 208. Physics of Climate

Catalog Number: 6561

Zhiming Kuang

Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16

Overview of the basic features of the climate system (global energy balance, atmospheric general circulation, ocean circulation, and climate variability) and the underlying physical processes.

Prerequisite: Applied Mathematics 105b (may be taken concurrently), Physics 11a, b or 15; or permission of the instructor.



[Earth and Planetary Sciences 209. Tides and Milankovitch Forcing in the Climate System]

Catalog Number: 5594

Peter John Huybers

Half course (spring term). Tu., Th., 10–11:30.

Tidal and solar insolation forcing are both directly dependent upon the orbital configuration of the Earth and sun and they are the only near-periodic drivers of the environment. This course will discuss these phenomena in parallel, and use them as examples of the application of quantitative time series analysis and modeling methods suitable for the analysis of instrumental and paleoclimate records.

Note: Expected to be given in 2011–12. Given in alternate years. This subject will be taught jointly with the MIT course by same name.

Prerequisite: EPS 131, EPS 132, or permission of instructor.

***Earth and Planetary Sciences 210. Introduction to Isotope and Trace Element Geochemistry**

Catalog Number: 9146

Sujoy Mukhopadhyay and members of the Department

Half course (fall term). M., W., 1–2:30.

The course emphasizes the principles of isotope and trace element geochemistry and their application to relevant problems in Earth and Planetary Sciences. Problems to be addressed include planet formation and differentiation, ocean chemistry, and climate reconstruction.

***Earth and Planetary Sciences 231. Climate Dynamics**

Catalog Number: 6492

Eli Tziperman

Half course (spring term). M., 1:30–3, Th., 2:30–4.

Climate and climate variability phenomena and mechanisms using a hierarchical modeling approach. Basics: El Niño and thermohaline circulation, abrupt, millennial and glacial-interglacial variability, equable climates.

Note: Given in alternate years.

Prerequisite: Background in geophysical fluid dynamics or permission of instructor.

Earth and Planetary Sciences 232. Dynamic Meteorology

Catalog Number: 5344

Brian F. Farrell

Half course (fall term). Tu., Th., 10–11:30.

The atmosphere understood as a fluid dynamical system. Observations of atmospheric motions related to weather and climate. Application of the equations of atmospheric dynamics to explaining phenomena such as jet streams, cyclones and fronts.

Prerequisite: Applied Mathematics 105b; or permission of instructor.

Earth and Planetary Sciences 236. Environmental Modeling

Catalog Number: 7250

Steven C. Wofsy and Daniel J. Jacob

Half course (spring term). Class meeting times to be arranged plus one to three hours of computer-based laboratory work per week. EXAM GROUP: 16, 17



Chemical transport models: principles, numerical methods. Inverse models: Bayes' theorem, optimal estimation, Kalman filter, adjoint methods. Analysis of environmental data: visualization, time series analysis, Monte Carlo methods, statistical assessment. Students prepare projects and presentations.

Note: Students specializing in this area are expected to take EPS 200 and 236. These courses may serve as an introduction to atmospheric and oceanic processes for other students with strong preparation.

Prerequisite: Applied Mathematics 105b (may be taken concurrently); a course in atmospheric chemistry (EPS 133 or 200 or equivalent); or permission of the instructors.

[Earth and Planetary Sciences 238. Spectroscopy and Radiative Transfer of Planetary Atmospheres]

Catalog Number: 1891

Kelly V. Chance

Half course (spring term). Tu., Th., 1–2:30.

Absorption, emission, and scattering, emphasizing Earth's atmosphere. Atmospheric spectroscopic properties for various measurement geometries. Quantitative spectroscopy and atmospheric structure are reviewed. Radiative transfer modeling and simulation and interpretation of atmospheric spectra from microwave through ultraviolet.

Note: Expected to be given in 2011–12. Given in alternate years.

Prerequisite: Ability to program in a high-level computer language (may be learned in parallel with the permission of the instructor).

Earth and Planetary Sciences 239. The Consequences of Energy Systems

Catalog Number: 98708

Daniel P. Schrag

Half course (fall term). M., 1–3:30.

This course provides an introduction to the physical and chemical impacts of energy choices on human society and natural ecosystems. Topics will include the carbon cycle, climate, air and water pollution, impacts of energy systems on health, land use consequences of energy technologies, and nuclear waste and proliferation.

Note: This course is a requirement for the Graduate Consortium on Energy and Environment.

Prerequisite: College level chemistry and physics and permission of the Instructor.

[Earth and Planetary Sciences 240. Geochemical Transport and Kinetics]

Catalog Number: 0187

Stein B. Jacobsen

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

Irreversible thermodynamics, heat flow and diffusion. K-U-Th geochemistry. Mass transfer between geochemical reservoirs; modeling of mantle melting, mantle and crustal evolution, geochemical cycles. Determination of temperature-time-pressure histories of rocks from radiogenic isotopes and phase equilibria.

Note: Expected to be given in 2011–12. Given in alternate years.

Prerequisite: Mathematics 21a, b or Applied Mathematics 21a, b. Applied Mathematics 105a, b are recommended.



[Earth and Planetary Sciences 241r (formerly Earth and Planetary Sciences 241). Isotope Geochemistry and Processes of Planetary Evolution]

Catalog Number: 1680

Stein B. Jacobsen

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

The composition and the evolution of the Solar Nebula. Application of radiogenic and stable isotopes to study the processes of formation and evolution of planetary crusts, mantles, and cores.

Note: Expected to be given in 2011–12. Given in alternate years.

[Earth and Planetary Sciences 242. Low Temperature Geochemistry (formerly Biogeochemistry of Light Stable Isotopes)]

Catalog Number: 8808 Enrollment: Limited to 10.

Daniel P. Schrag

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

Introduction to the theory and methodology of stable isotope biogeochemistry. Topics include isotope ratio mass spectrometry, biological fractionation of carbon and nitrogen isotopes, distribution of isotopes in terrestrial and marine ecosystems, and applications to climate reconstruction.

Note: Expected to be given in 2011–12. Given in alternate years.

[Earth and Planetary Sciences 243. Geochemical and Cosmochemical Thermodynamics]

Catalog Number: 2002

Stein B. Jacobsen

Half course (fall term). M., W., 1–2:30.

The laws of thermodynamics. Equilibrium and spontaneous transformations in systems of variable chemical composition. Components, phase rule and petrogenetic grids. Calculation of phase diagrams. Applications to cosmochemistry, igneous and metamorphic petrology, and environmental geochemistry.

Note: Expected to be given in 2011–12. Given in alternate years.

Prerequisite: A course in college-level chemistry or equivalent; Mathematics 21a or Applied Mathematics 21a (may be taken concurrently).

[*Earth and Planetary Sciences 245. Petrological Approaches to Understanding the Earth's System]

Catalog Number: 7202

Charles H. Langmuir

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

The course studies the igneous processes at spreading centers, convergent margins and hot spots, and explore their influences on mantle, crust, ocean and atmosphere and the constraints they provide for the plate tectonic geochemical cycle.

Note: Expected to be given in 2011–12. Given in alternate years.

Prerequisite: EPS 145 or permission of instructor.

[Earth and Planetary Sciences 250r. Topics in Planetary Sciences](#)

Catalog Number: 1225



Sarah Stewart-Mukhopadhyay and Stein B. Jacobsen

Half course (spring term). W., at 12; F., 3–5.

Research seminar on current problems in planetary sciences. Topics: impact processes, planetary surface processes, planet formation, and subjects related to current spacecraft missions.

Note: Given in alternate years or upon announcement.

[Earth and Planetary Sciences 260. Topics in Geophysics]

Catalog Number: 2908

Richard J. O’Connell and Miaki Ishii

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

Research seminar on current important problems on the state and processes of the solid Earth. Topics may include mantle structure and geochemistry, the core-mantle boundary, the continental lithosphere.

Note: Expected to be given in 2011–12. This course is coordinated with a research course at MIT.

Earth and Planetary Sciences 261. Sea Level Change

Catalog Number: 91589

Jerry X. Mitrovica

Half course (spring term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16

The physical processes responsible for sea level changes over time scales extending from hours to hundreds of millions of years. Long-term sea-level change and dynamic topography. Glacial isostatic adjustment. Recent global sea-level rise and fingerprinting. Ocean tides.

Prerequisite: Applied Mathematics 21a, b; Physics 11 or 15; or permission of instructor.

Earth and Planetary Sciences 265r. Topics in Geodynamics

Catalog Number: 0816

Richard J. O’Connell

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

Topics in the dynamics of processes and properties in the Earth’s interior, including: thermal convection and flow in the mantle, rheology of the mantle, plate motions, plate deformation, physical properties of rocks and minerals.

Note: Given in alternate years.

***Earth and Planetary Sciences 269r. Tectonics, Earthquakes, and Faulting in Southern California**

Catalog Number: 8157

Brendan J. Meade and John H. Shaw

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

Research seminar on current problems of tectonics, faulting, and earthquake occurrence at the Pacific-North America plate boundary in California. Emphasis on the identification of extant problems that may be resolved with contemporary geologic, geophysical, and geodetic data analysis and process based modeling.

Note: Given in alternate years.



[Earth and Planetary Sciences 272r. Topics in Structural Geology]

Catalog Number: 1546

John H. Shaw

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

Seminar course investigating recent advances in structural geology and exploration geophysics with applications in earthquake science and the petroleum industry. Specific topics vary from year to year.

Note: Expected to be given in 2011–12. Given in alternate years.

Prerequisite: EPS 171 or equivalent. Intended for graduate and advanced undergraduate students involved in structural geology research.

Earth and Planetary Sciences 281r. Great Papers in Earth Sciences

Catalog Number: 2474

Peter John Huybers and Eli Tziperman

Half course (spring term). W., 3–5.

A survey and discussion of groundbreaking papers from across the Earth sciences.

Earth and Planetary Sciences 282r. Topics in Stratigraphy and Earth History

Catalog Number: 60506

Francis Alexander Macdonald and Hudong Chen

Half course (fall term). Th., 1–2:30. EXAM GROUP: 15, 16

Readings and discussions on current problems in stratigraphy and Earth history. Students will read and present journal articles on relevant topics, and will rotate responsibility for leading discussions.

[Earth and Planetary Sciences 286r. Current Topics in Biogeochemistry] - (New Course)

Catalog Number: 38407

David T. Johnston

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

This course will focus on emerging topics in biogeochemistry. This class is designed to engage students in discussion on new topics and cutting-edge techniques within the field. Students will develop a robust understanding of how different element cycles are fundamentally linked, how many of these cycles are driven by microorganisms, and how many of these processes leave subtle chemical and isotopic records of their activity.

Note: Expected to be given in 2011–12. Given in alternate years.

[Earth and Planetary Sciences 287 (formerly Earth and Planetary Sciences 237). Advanced Geobiology and Biogeochemistry]

Catalog Number: 9320

Ann Pearson and David T. Johnston

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

Covers topics from EPS 187 (formerly EPS 137) at in-depth, accelerated pace. Course emphasizes reactions at the molecular and isotopic level using biomarkers to understand natural processes. Considers complex microbial assemblages with attention to current and ancient records of earth systems.



Note: Expected to be given in 2011–12. Given in alternate years.

Prerequisite: EPS 187/137 or equivalent; or permission of instructor.

Earth and Planetary Sciences 290. Scientific Communication

Catalog Number: 6610

Sarah Stewart-Mukhopadhyay

Half course (fall term). W., 3–5. EXAM GROUP: 8, 9

Teaches students how to effectively, communicate scientific concepts focusing on short oral presentations based on current journal articles drawn from Earth and Planetary Sciences.

Technical presentation skills (planning, delivery, managing nervousness, etc.) developed through weekly practice and detailed feedback.

Note: Recommended for EPS graduate students in their 1st or 2nd year. Topics include: differences between written and oral communication; structure and organization of short vs. long and general vs. technical talks; and effective use of visualizations including poster presentations.

Cross-listed courses

Engineering Sciences 220. Fluid Dynamics

Engineering Sciences 240. Solid Mechanics

Engineering Sciences 241. Advanced Elasticity

Engineering Sciences 263. Microbial Geochemistry

[Engineering Sciences 264. Advanced Aqueous and Environmental Chemistry]

[Engineering Sciences 266. Advanced Environmental Microbiology]

Engineering Sciences 267. Aerosol Science and Technology

Graduate Courses of Reading and Research

***Earth and Planetary Sciences 320. Topics in Planetary Sciences**

Catalog Number: 6050

Sarah Stewart-Mukhopadhyay 4637

***Earth and Planetary Sciences 330. Climate Atmospheric Chemistry and Free Radical Kinetics**

Catalog Number: 3810

James G. Anderson 6057

***Earth and Planetary Sciences 331. Atmospheric Chemistry**

Catalog Number: 4038

Daniel J. Jacob 1781

***Earth and Planetary Sciences 332. Dynamic Meteorology**

Catalog Number: 2802

Brian F. Farrell 7628 (on leave spring term)



***Earth and Planetary Sciences 333. Environmental Chemistry**

Catalog Number: 4927

Scot T. Martin 3365

***Earth and Planetary Sciences 334. Atmospheric Physics and Chemistry**

Catalog Number: 4886

Michael B. McElroy 2462 (on leave spring term)

***Earth and Planetary Sciences 335. Climate Dynamics and Physical Oceanography**

Catalog Number: 3095

Eli Tziperman 4748

***Earth and Planetary Sciences 336. Geophysical Fluid Dynamics**

Catalog Number: 8851

Eli Tziperman 4748

***Earth and Planetary Sciences 337. Biological Oceanography**

Catalog Number: 5704

James J. McCarthy 4343

***Earth and Planetary Sciences 338. Atmospheric Chemistry**

Catalog Number: 7596

Steven C. Wofsy 4396

***Earth and Planetary Sciences 339. Biogeochemistry**

Catalog Number: 9843

Ann Pearson 4224

***Earth and Planetary Sciences 340. Topics in Isotope Geochemistry: Research Seminar**

Catalog Number: 2881

Stein B. Jacobsen 7212

***Earth and Planetary Sciences 341. Isotope Geochemistry**

Catalog Number: 7103

Stein B. Jacobsen 7212

***Earth and Planetary Sciences 342. Topics in Atmospheric and Climate Dynamics**

Catalog Number: 1732

Zhiming Kuang 5285

***Earth and Planetary Sciences 343. Topics in Quantitative Analysis of the Climate Record**

Catalog Number: 2979

Peter John Huybers 5746

***Earth and Planetary Sciences 344. Topics in Stable Isotope Geochemistry and Geochemical Oceanography**



Catalog Number: 6291

Daniel P. Schrag 3054

***Earth and Planetary Sciences 345. Solid Earth Geochemistry**

Catalog Number: 7979

Charles H. Langmuir 4293 (on leave 2010-11)

***Earth and Planetary Sciences 346. Topics in Noble Gas Geochemistry**

Catalog Number: 2928

Sujoy Mukhopadhyay 4621

***Earth and Planetary Sciences 347. Topics in Environmental Policy**

Catalog Number: 4360

John P. Holdren (Kennedy School, FAS) 2673

***Earth and Planetary Sciences 348. Topics in Microbial Geochemistry**

Catalog Number: 52137

Colleen M. Hansel 5609

***Earth and Planetary Sciences 362. Dynamo Theory: Research Seminar**

Catalog Number: 1840

Jeremy Bloxham 2047

***Earth and Planetary Sciences 363. Seismology and Tectonophysics: Geomechanics, Earthquake Source Physics**

Catalog Number: 8664

James R. Rice 7270

***Earth and Planetary Sciences 364. Geophysics**

Catalog Number: 1438

Jeremy Bloxham 2047

***Earth and Planetary Sciences 365. Geophysics**

Catalog Number: 5632

Richard J. O'Connell 3642

***Earth and Planetary Sciences 367. Global Geodynamics**

Catalog Number: 4447

Jerry X. Mitrovica 6696

***Earth and Planetary Sciences 368. Seismology**

Catalog Number: 4932

Miaki Ishii 5493



***Earth and Planetary Sciences 369. Topics in Active Tectonics**

Catalog Number: 5904

Brendan J. Meade 5340

***Earth and Planetary Sciences 370. Structural Analysis**

Catalog Number: 9046

John H. Shaw 3699

***Earth and Planetary Sciences 380. Topics in Geology and Earth History**

Catalog Number: 1161

Francis Alexander Macdonald 6283

***Earth and Planetary Sciences 381. Topics in Stable Isotope Geobiology and Earth History**

Catalog Number: 22177

David T. Johnston 6278

***Earth and Planetary Sciences 387. Paleobotany**

Catalog Number: 6983

Andrew H. Knoll 7425

East Asian Languages and Civilizations

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Department of East Asian Languages and Civilizations

Wilt L. Idema, Professor of Chinese Literature (*Chair*)

Ryuichi Abe, Reischauer Institute Professor of Japanese Religions

Peter K. Bol, Charles H. Carswell Professor of East Asian Languages and Civilizations (*on leave 2010-11*)

Mark Edward Byington, Lecturer on East Asian Languages and Civilizations

Edwin A. Cranston, Professor of Japanese Literature

Nara Dillon, Lecturer on East Asian Languages and Civilizations

Carter J. Eckert, Yoon Se Young Professor of Korean History

Mark C. Elliott, Mark Schwartz Professor of Chinese and Inner Asian History

Yasunori Fujisaki, Preceptor in Japanese

Binnan Gao, Preceptor in Chinese

Andrew Gordon, Lee and Juliet Folger Fund Professor of History (*on leave fall term*)

Robert Goree, Lecturer on East Asian Languages and Civilizations



Helen Hardacre, Reischauer Institute Professor of Japanese Religions and Society (*on leave spring term*)
Rowena Xiaoqing He, Lecturer on East Asian Languages and Civilizations
David Howell, Professor of Japanese History
Hui-Yen Huang, Senior Preceptor in Chinese
Wesley M. Jacobsen, Professor of the Practice of the Japanese Language and Director of the Japanese Language Program (*on leave 2010-11*)
Yuko Kageyama-Hunt, Preceptor in Japanese
Mi-Hyun Kim, Preceptor in Korean
Sun Joo Kim, Harvard-Yenching Professor of Korean History (*on leave 2010-11*)
Tomoko Kitagawa, College Fellow in the Department of East Asian Languages and Civilizations
Shigehisa Kuriyama, Reischauer Institute Professor of Cultural History (*on leave 2010-11*)
Jie Li, College Fellow in the Department of East Asian Languages and Civilizations
Wai-yee Li, Professor of Chinese Literature (*on leave 2010-11*)
Yasuko Matsumoto, Preceptor in East Asian Languages and Civilizations
Satomi Matsumura, Senior Preceptor in Japanese
David McCann, Korea Foundation Professor of Korean Literature
Melissa M. McCormick, Professor of Japanese Art and Culture (*Director of Graduate Studies*)
Binh Ngo, Senior Preceptor in Vietnamese and Director of the Vietnamese Language Program
Sang-suk Oh, Senior Preceptor in Korean and Director of the Korean Language Program
Stephen Owen, James Bryant Conant University Professor
Michael J. Puett, Professor of Chinese History
James Robson, Associate Professor of East Asian Languages and Civilizations
Nicolas Standaert, Erasmus Lecturer on the History and Civilization of the Netherlands and Flanders
Michael A. Szonyi, Professor of Chinese History (*Head Tutor*)
Xiaofei Tian, Professor of Chinese Literature
Ye Tian, Preceptor in East Asian Languages and Civilizations
Leonard W. J. van der Kuijp, Professor of Tibetan and Himalayan Studies (*on leave fall term*)
David Der-Wei Wang, Edward C. Henderson Professor of Chinese Literature
Miaomiao Wang, Preceptor in Chinese
Qiuyu Wang, Preceptor in Chinese
Xuedong Wang, Preceptor in Chinese
Emi Yamanaka, Preceptor in Japanese
Lei Yan, Preceptor in East Asian Languages and Civilizations (*on leave spring term*)
Tomiko Yoda, Takashima Professor of Japanese Humanities
Chen Zhang, Preceptor in East Asian Languages and Civilizations
Ling Zhang, Lecturer on East Asian Languages and Civilizations
Congmin Zhao, Preceptor in Chinese

Other Faculty Offering Instruction in East Asian Languages and Civilizations

Janet Gyatso, Hershey Professor of Buddhist Studies (*Divinity School*)
Philip A. Kuhn, Francis Lee Higginson Professor of History and of East Asian Languages and Civilizations, Emeritus



Wei-ming Tu, Harvard Yenching Professor of Chinese History and Philosophy and of Confucian Studies, Emeritus

Committee for the Social Science Program in East Asian Studies of the Department of East Asian Languages and Civilizations

Theodore C. Bestor, Reischauer Institute Professor of Social Anthropology (*on leave spring term*)

Carter J. Eckert, Yoon Se Young Professor of Korean History

Andrew Gordon, Lee and Juliet Folger Fund Professor of History (*on leave fall term*)

Alastair Iain Johnston, Governor James Albert Noe and Linda Noe Laine Professor of China in World Affairs (*on leave 2010-11*)

William C. Kirby, T. M. Chang Professor of China Studies and Spangler Family Professor of Business Administration (*on leave 2010-11*)

Roderick MacFarquhar, Leroy B. Williams Professor of History and Political Science (*on leave spring term*)

Elizabeth J. Perry, Henry Rosovsky Professor of Government

Susan J. Pharr, Edwin O. Reischauer Professor of Japanese Politics (*on leave spring term*)

Michael A. Szonyi, Professor of Chinese History

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.”

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.

Courses in the Language Programs are designed to be taken in sequence and cannot be taken out of order. There are no auditors permitted in the Language Programs and language courses must be taken for a grade. Independent study in languages will only be offered after completion of all courses in the sequence, and with permission of the Director of that language. Placement and admission to a course is at the discretion of the Director of the Program.

East Asian Studies

Primarily for Undergraduates

[*East Asian Studies 91r. Supervised Reading and Research](#)

Catalog Number: 0961



Michael A. Szonyi and members of the Department

Half course (fall term; repeated spring term). Spring: Tu., 2–3:30.

Independent reading and research in East Asian Studies.

Note: Open to students who have given evidence of ability to do independent reading and research. May be taken on an individual basis or by small groups of students interested in working on the same topic. Permission of the East Asian Studies Head Tutor required.

East Asian Studies 97ab. Introduction to East Asian Civilizations

Catalog Number: 2337

Michael A. Szonyi and members of the Department

Half course (spring term). Tu., Th., at 12;.

This course looks at some of the elements (philosophy and religion, art and literature, statecraft and technology) that are shared by the various regional cultures of East Asia (China, Japan, Korea, Vietnam), and the ways in which these vary in each of these cultures. We also look at the way in which the countries of East Asia have impacted each other in the process of modernization, and at their divergent paths towards globalization.

Note: Required of sophomore concentrators. Open to freshmen.

[East Asian Studies 98a. Tutorial--Junior Year: State-Society Relations in Modern China]

Catalog Number: 0964

Elizabeth J. Perry

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

Junior Tutorial for students in the China Social Science track.

Note: Expected to be given in 2011–12. EAS 98a, 98b, 98d or a substitution approved by the Head Tutor is required for all EAS concentrators. Preference to EAS concentrators but open to Government concentrators.

East Asian Studies 98b. Junior Tutorial--State and Society in Contemporary Japan

Catalog Number: 8288

Susan J. Pharr

Half course (fall term). Tu., at 3 with an additional hour to be arranged.

Junior Tutorial for students in the Japan Social Science track. For students with an interest in the society, economy, politics, and popular culture of contemporary Japan.

Note: EAS 98a, 98b, 98d or a substitution approved by the Head Tutor is required for all EAS concentrators. Preference to EAS students but open to Government concentrators.

East Asian Studies 98d. Junior Tutorial--The Political Economy of Modern China

Catalog Number: 4800

Nara Dillon

Half course (fall term). W., 2–4.

Junior Tutorial for students with an interest in China Social Sciences. After an introduction to the historical context of China's development, this course will focus on the political economy of reform in the post-Mao period. Some of the topics covered include democracy, the 1989 Tiananmen protests, the rise of entrepreneurs, the role of labor, rural-urban migration, and the Internet.



Note: EAS 98a, 98b, 98d or a substitution approved by the Head Tutor is required for all EAS concentrators. Preference to EAS students but open to Government concentrators.

East Asian Studies 98f. Junior Tutorial —The Study of East Asian Religions - (New Course)

Catalog Number: 94577

James Robson

Half course (fall term). Tu., at 2.

This tutorial is designed to deepen and extend the student's knowledge of the study of East Asian religions. It will build on the student's foundational understanding of the development and history of Buddhism, Daosim, Confucianism, Shinto, and various forms of popular religion, by situating that material in the context of larger issues in the study of East Asian religions. The overarching concern within this tutorial will be on reading and discussing methodologically oriented scholarship that will introduce the student to new and intellectually engaging approaches to the various traditions covered.

Prerequisite: Culture and Belief 33: Introduction to the Study of East Asian Religions. If students have not previously taken this course, they are required to attend those lectures concurrently with this tutorial.

***East Asian Studies 99. Tutorial — Senior Year**

Catalog Number: 0384

Michael A. Szonyi and members of the Department

Full course. Hours to be arranged.

Thesis guidance under faculty direction.

Cross-listed Courses

[Culture and Belief 11. Medicine and the Body in East Asia and in Europe]

Culture and Belief 33. Introduction to the Study of East Asian Religions

For Undergraduates and Graduates

East Asian Studies 120. Melodrama in East Asian Cinema - (New Course)

Catalog Number: 54461

Jie Li

Half course (fall term). Tu., Th., at 11:30-1, with weekly film screenings. EXAM GROUP: 14 Melodrama has been a prevalent mode of filmmaking in East Asia, addressing significant social changes and historical experiences. Through films by Bong Joon-ho, Mizoguchi Kenji, Kim Ki-young, Ang Lee, Ozu Yasujiro, Wong Kar-wai, Xie Jin, Zhang Yimou and other auteurs, this course takes a vicarious journey through modern China, Japan, and Korea, examining topics such as sentimentality and moral binaries, modernity and national identities, film genres and styles, as well as gender, class, and spectatorship.

Note: All films subtitled in English. No prior knowledge of East Asian history or film studies necessary. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts C.



East Asian Studies 140. Major Religious Texts of East Asia

Catalog Number: 0856

Ryuichi Abe

Half course (spring term). W., 2–4:30.

This course aims at enabling students to read and analyze in depth major religious texts of East Asia, representing diverse traditions and genres. The course encourages students to take up their reading of texts not only as ways to acquire knowledge on Asian religious traditions, but as practice, labor, and play in which their ordinary way of understanding/experiencing the world and themselves will be challenged, reaffirmed, and renewed.

East Asian Studies 160. Writing Asian Poetry

Catalog Number: 0327

David McCann

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

Readings in selected Chinese, Japanese, and Korean verse forms, and composition or imitation in English. Study of Li Po and Tu Fu (Chinese couplet), Basho (haiku and haibun mixed prose and poetry), Yun Sôn-do and other Korean poets (shijo), and composition/imitation. Final project, an extended suite of poems or mixed prose and poetry.

Note: No Asian language knowledge is required; all writing will be in English.

East Asian Studies 175. The History of Modern Science and Technology in East Asia

Catalog Number: 5317

Aleksandra Majstorac-Kobiljski

Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

This course investigates issues in technology transfer in nineteenth and twentieth century China and Japan with regard to changing modes of scientific inquiry and the relationship between science and national self-strengthening.

Note: This course, when taken for a letter grade, meets the Core area requirement for Historical Study A.

East Asian Studies 191. Zen: History, Culture, and Critique

Catalog Number: 39452

James Robson

Half course (spring term). Tu., Th., 10–11:30; Tu., at 4. EXAM GROUP: 12, 13

This course is an introduction to the religious history, philosophy and practices of Zen Buddhism. Zen is the Japanese pronunciation of the Chinese word *Chan*, which is itself a transcription of the Sanskrit word *dhyâna*, meaning meditation. While meditation is the backbone of the Zen tradition, we will see that Zen has a number of different faces and will examine the rich diversity of the Zen tradition as it developed in China, Korea, and Japan.

Note: Offered jointly with the Divinity School as 3012.

East Asian Studies 195. Fighting Poverty in China: Redistribution, Social Rights & NGOs in Comparative Perspective

Catalog Number: 78777

Nara Dillon

Half course (spring term). M., 1-3 or M., 4-6. EXAM GROUP: 6, 7



This course is a research seminar on the political economy of poverty and inequality in China. Because China has tried such a wide variety of methods to combat poverty, it provides a useful "laboratory" for exploring the origins and impact of many different anti-poverty policies. After an introduction to cross-national concepts of poverty, inequality and social rights, students will examine famine relief, land reform, the welfare state, NGOs, and development programs targeted to the poor.

Primarily for Graduates

[East Asian Studies 200. The Uses and Meaning of the New Arts of Presentation]

Catalog Number: 6509

Shigehisa Kuriyama

Half course (fall term). M., 2–5.

Exploration of the new horizons of communication created by current media technology and their implications for the future of teaching and scholarship. The seminar will combine theoretical readings and reflection with practical, hands-on experiments using podcasts, media-intensive lectures, and iMovies for conveying academic research.

Note: Expected to be given in 2011–12. Limited enrollment.

[East Asian Studies 205. Approaches to the Comparative History of Medicine and the Body]

Catalog Number: 2222

Shigehisa Kuriyama

Half course (fall term). Tu., 2–4.

Research seminar devoted to the theory and methods, possibilities and challenges of cross-cultural studies in the history of medicine and the body.

Note: Expected to be given in 2011–12. Students will also be expected to attend lectures for Culture and Belief 11.

[East Asian Studies 220r. Medieval Japanese Picture Scrolls]

Catalog Number: 1685

Melissa M. McCormick

Half course (spring term). F., 1–3.

Examines the rich tradition of medieval Japanese picture scrolls (*emaki*). Provides training in the reading of scroll texts (*kotobagaki*), the analysis of paintings, and the examination of the production contexts of important scrolls from the 12th to the 16th century. Aims to make picture scrolls available as a primary source for graduate research in many different disciplines within Japanese studies.

Note: Expected to be given in 2011–12.

[East Asian Studies 230r (formerly East Asian Studies 230). The History of East Asian Medicine: Seminar]

Catalog Number: 0544

Shigehisa Kuriyama

Half course (spring term). Tu., 1–4.

In 2008-09, focus on original texts related to the history of forensic medicine.



Note: Expected to be given in 2011–12.

Prerequisite: At least one year of classical Chinese.

[East Asian Studies 240. Arts of Asia (Graduate Seminar in General Education)]

Catalog Number: 36034

Melissa M. McCormick

Half course (spring term). W., 1–3.

Explores Asian art pedagogy through original research of museum objects and a survey of the scholarship on Asian art. The seminar will design and develop a General Education course on these themes for undergraduates.

Note: Expected to be given in 2012–13.

East Asian Studies 250. From Propaganda to Testimony: East Asian History on Film: Seminar - (New Course)

Catalog Number: 69568

Jie Li

Half course (spring term). Th., 2–5. EXAM GROUP: 16, 17, 18

How have films documented, represented, or even made history in modern China, Japan, Korea, and Taiwan? Examines diverse ways by which films can or cannot tell the "truth" about history. Topics: film propaganda under colonial and authoritarian regimes, during wars and revolutions; contemporary political and ethical implications of cinematic testimonies.

Prerequisite: Students should have some basic background in modern East Asian history.

East Asian Studies 255. Epistolary Histories: The Letter Exchange and the Mode of Communication in the Medieval World: Seminar - (New Course)

Catalog Number: 26952

Tomoko Kitagawa

Half course (fall term). Tu., 1–3. EXAM GROUP: 16

This course gives an overview of historical sources that are classified as "letters" in the medieval world, and demonstrates various ways of interpreting them from a theoretical standpoint.

East Asian Buddhist Studies

Primarily for Graduates

East Asian Buddhist Studies 240r. Japanese Buddhist Doctrine and Monastic Culture: Seminar

Catalog Number: 3768

Ryuichi Abe

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

A graduate seminar aimed at improving students' ability to read and analyze scriptural sources in the context of textual, artistic, and other cultural productions centered around large monasteries in premodern Japan. Major theme for this semester: Buddhist cultural exchange between medieval Japan and China.

Prerequisite: Classical Japanese and *Kambun* are required.



[East Asian Buddhist Studies 241. Major Issues in the Study of East Asian Buddhism]

Catalog Number: 57596

Ryuichi Abe

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

A graduate seminar that critically examines major academic works in English on East Asian Buddhism. It is aimed at preparing EALC graduate students for their general examinations in the fields relevant to Buddhism.

Note: Expected to be given in 2011–12.

East Asian Buddhist Studies 245r (formerly East Asian Buddhist Studies 245). Ritual and Text in Japanese Buddhist Literature

Catalog Number: 7113

Ryuichi Abe

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

Examines the way in which rituals are approached, described, and interpreted in primary Japanese Buddhist texts. Students will acquire skills allowing them to move freely in their reading of texts from diverse literary genres.

Prerequisite: Classical Japanese and *Kambun*.

East Asian Buddhist Studies 255. Readings on Chinese Religions: Landscape, Place, Pilgrims, and Travelers in the Study of East Asian Buddhism: Seminar

Catalog Number: 24345

James Robson

Half course (fall term). W., 1–4. EXAM GROUP: 6, 7, 8

This seminar aims to discuss significant new works in the field of Chinese Religions by focusing on issues of Buddhist sacred geography and the role of travel and pilgrimage in East Asia. The primary focus will be on introducing methodological approaches to the study of sacred geography and situating the Chinese material we read in the context of developments in neighboring regions.

Note: Offered jointly with the Divinity School as 3232.

**East Asian Buddhist Studies 256. Chinese Buddhist Texts--Readings in Medieval Buddhist-
Daoist Documents: Seminar**

Catalog Number: 69666

James Robson

Half course (spring term). W., 1–4. EXAM GROUP: 6, 7, 8

This seminar focuses on the careful textual study and translation of a variety of Chinese Buddhist-Daoist texts through the medieval period.

Note: Offered jointly with the Divinity School as 3233.

Prerequisite: Reading knowledge of classical Chinese required.

Graduate Courses of Reading and Research

***East Asian Buddhist Studies 300. Reading and Research**

Catalog Number: 9811

Ryuichi Abe 4974, Janet Gyatso (Divinity School) 4243, and James Robson 6695



Cross-listed courses

[Aesthetic and Interpretive Understanding 36 \(formerly Foreign Cultures 94\). Buddhism and Japanese Culture](#)

**[Culture and Belief 25 (formerly Religion 70). Studying Buddhism, Across Place and Time]
[Religion 2710r. Buddhist Studies: Seminar]**

China: Language Courses

For Undergraduates and Graduates

[Chinese Aab. Intensive Elementary Modern Chinese]

Catalog Number: 0625 Enrollment: Limited to 20.

Binnan Gao

Full course (fall term). M., through F., 1-3.

Intensive introduction to modern standard (Mandarin) Chinese pronunciation, grammar, conversation, reading, and writing.

Note: Expected to be omitted in 2010–11. Expected to be given in 2011–12. No auditors. May not be taken Pass/Fail.

[Chinese Ba. Elementary Modern Chinese](#)

Catalog Number: 4375

Qiuyu Wang

Half course (fall term). Sections Tu., Th., 11, 12, or 2, and three additional hours to be arranged.

EXAM GROUP: 13

Non-intensive introduction to modern Chinese pronunciation, grammar, conversation, reading, and writing.

Note: No auditors. May not be taken Pass/Fail.

[Chinese Bb. Elementary Modern Chinese](#)

Catalog Number: 8714

Qiuyu Wang

Half course (spring term). Sections Tu., Th., 10, 11, or 2, and three additional hours to be arranged. EXAM GROUP: 12

Continuation of Chinese Ba.

Note: No auditors. May not be taken Pass/Fail.

Prerequisite: Chinese Ba or equivalent.

[*Chinese Bx. Elementary Chinese for Advanced Beginners](#)

Catalog Number: 7066

Hui-Yen Huang

Half course (fall term). M., W., F., at 10 or 2, and two additional hours to be arranged. EXAM GROUP: 3

For students with significant listening and speaking background. Introductory Modern Chinese language course, with emphasis on reading and writing. Covers in one term the equivalent of Chinese Ba and Bb.



Note: No auditors. May not be taken Pass/Fail. Students must pass a test in listening and speaking to take the course.

Chinese 120a. Intermediate Modern Chinese

Catalog Number: 4283

Congmin Zhao and Xuedong Wang

Half course (fall term). Sections Tu., Th., at 10 or 12, and three additional hours to be arranged.

EXAM GROUP: 12

Modern texts, conversation, reading, and composition.

Note: No auditors. May not be taken Pass/Fail.

Prerequisite: Chinese Bb or equivalent.

Chinese 120b. Intermediate Modern Chinese

Catalog Number: 1702

Xuedong Wang

Half course (spring term). Sections Tu., Th., at 10, 12, or 2, and three additional hours to be arranged. EXAM GROUP: 12

Continuation of Chinese 120a.

Note: No auditors. May not be taken Pass/Fail.

Prerequisite: Chinese 120a, or equivalent.

Chinese 123xb (formerly Chinese 123b). Intermediate Modern Chinese for Advanced Beginners

Catalog Number: 7034

Hui-Yen Huang

Half course (spring term). Sections M., W., F. at 10 or 2, and two additional hours to be arranged. EXAM GROUP: 3

Continuation of Chinese Bx. Covers in one term the equivalent of Chinese 120a and 120b.

Note: No auditors. May not be taken Pass/Fail.

Prerequisite: Chinese Bx, or instructor's permission.

[Chinese 125ab. Intensive Intermediate Modern Standard Chinese]

Catalog Number: 0977 Enrollment: Limited to 20.

Binnan Gao

Full course (spring term). M., through F., 1-3.

Continuation of Chinese Aab.

Note: Expected to be omitted in 2010–11. Expected to be given in 2011–12. No auditors. May not be taken Pass/Fail.

Prerequisite: Chinese Aab, or Chinese Bb, or equivalent.

Chinese 130a. Advanced Modern Chinese

Catalog Number: 6724

Lei Yan

Half course (fall term). Sections Tu., Th., at 10, 12, or 2, and three additional hours to be arranged. EXAM GROUP: 12

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. No auditors. May not be taken Pass/Fail.

Prerequisite: Two years of modern Chinese.

Chinese 130b. Advanced Modern Chinese

Catalog Number: 2917

Lei Yan and Yun Li

Half course (spring term). Sections T., Th., at 9, 10, or 2, and three additional hours to be arranged. EXAM GROUP: 12

Continuation of Chinese 130a.

Note: Conducted in Chinese. No auditors. May not be taken Pass/Fail.

Prerequisite: Chinese 130a.

Chinese 130xa. Advanced Modern Chinese for Heritage Students

Catalog Number: 9097

Binnan Gao

Half course (fall term). Section I: M., W., F., at 10; Section II: M., W., F., at 12 and two additional hours to be arranged. EXAM GROUP: 3

Designed for heritage learners and covers the equivalent of Chinese 130a and other materials for reading and writing.

Note: No auditors. May not be taken Pass/Fail.

Prerequisite: Chinese 123b, Chinese 125ab, or with permission of instructor.

Chinese 130xb. Advanced Modern Chinese for Heritage Students

Catalog Number: 2437

Binnan Gao

Half course (spring term). Section I: M., W., F., at 10; Section II: M., W., F., at 12 and two additional hours to be arranged. EXAM GROUP: 3

Designed for heritage learners and covers the equivalent of Chinese 130b and other materials for reading and writing.

Note: No auditors. May not be taken Pass/Fail.

Prerequisite: Chinese 130xa.

Chinese 140a. Advanced Readings in Modern Chinese

Catalog Number: 1945

Miaomiao Wang

Half course (fall term). Sections M., W., F., at 10, or 2, and two additional hours to be arranged. EXAM GROUP: 3

Rapid reading of selections from books and articles.

Note: Conducted in Chinese. No auditors. May not be taken Pass/Fail.

Prerequisite: Chinese 130b.

Chinese 140b. Advanced Readings in Modern Chinese

Catalog Number: 6844

Miaomiao Wang



Half course (spring term). Sections: M., W., F., at 10, or 2, and two additional hours to be arranged. EXAM GROUP: 3

Continuation of Chinese 140a.

Note: No auditors. May not be taken Pass/Fail.

Prerequisite: Chinese 140a.

[*Chinese 142a. Advanced Conversational Chinese]

Catalog Number: 3900 Enrollment: Limited to 12.

Congmin Zhao

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

Spoken Chinese for advanced students.

Note: Expected to be given in 2011–12. No auditors. May not be taken Pass/Fail. No native speakers allowed. May not be used for citation.

Prerequisite: Chinese 140a or equivalent.

***Chinese 142b. Advanced Conversational Chinese**

Catalog Number: 1418 Enrollment: Limited to 12, per lecture section.

Ye Tian

Half course (spring term). M., W., 3–4:30; Tu., Th., 10–11:30. EXAM GROUP: 8, 9

Spoken Chinese for advanced students.

Note: No auditors. May not be taken Pass/Fail. No native speakers allowed. May not be used for citation.

Prerequisite: Chinese 130b or equivalent.

***Chinese 150a. Formal Chinese Writing and Speaking**

Catalog Number: 5621 Enrollment: Limited to 20.

Ye Tian

Half course (fall term). Sections M., W., F., at 10, or 2, and two additional hours to be arranged. EXAM GROUP: 7

The purpose of this course is to enable students to acquire a comprehensive written grammar with sufficient formal vocabulary in modern Chinese. Formal patterns generated by combining single characters are used for the foundation of written grammar. This course also offers students authentic academic readings in order to improve their abilities in academic writing and formal speech. Students are required to write and present their essays in formal Chinese.

Note: No auditors. May not be taken Pass/Fail.

Prerequisite: Chinese 140b or equivalent.

***Chinese 150b. Formal Chinese Writing and Speaking**

Catalog Number: 8111 Enrollment: Limited to 20.

Ye Tian

Half course (spring term). M.,W.,F., at 10 or 2 and two additional hours to be arranged. EXAM GROUP: 3

Continuation of Chinese 150a.

Note: No auditors. May not be taken Pass/Fail.

Prerequisite: Chinese 150a.



***Chinese 163. Business Chinese**

Catalog Number: 6558 Enrollment: Limited to 20.

Congmin Zhao

Half course (fall term; repeated spring term). M., W., F., at 12; or M., W., F., at 2; and two additional hours to be arranged. EXAM GROUP: 7

Designed for students interested in international business or for students who intend to work or travel for business in Chinese-speaking communities (including China, Taiwan, Hong Kong, and Singapore), or for students who desire to improve their Chinese language proficiency. An introduction to business and economic climates, practices and customs of these communities. Students learn specialized business and economic vocabulary and the principles of business correspondence.

Note: Conducted in Chinese. May not be taken Pass/Fail, but may be taken Sat/Unsat by GSAS students.

Prerequisite: At least three years of modern Chinese or equivalent (with permission of instructor).

[Chinese 183. Being Chinese: Contemporary Cultural Debates]

Catalog Number: 70457

Xiaofei Tian

Half course (spring term). W., 1–3.

A seminar that explore a series of contemporary cultural debates in China that are all concerned about the "Chinese identity," "national learning" (guoxue), and the notion of "greater cultural China" in the age of globalization. Readings for this course draw on critical writings published in current Chinese literary and cultural journals as well as on blog entries and discussions from the Chinese Internet. In relation to the course reading, students will also watch films from 1980s into the 21st century.

Note: Expected to be given in 2012–13. Class discussions in Chinese. Most readings in Chinese. Counts toward Language Citation in Modern Chinese.

Prerequisite: Four years of Mandarin or equivalent (with permission of instructor).

[Chinese 187. Art and Violence in the Cultural Revolution]

Catalog Number: 1253

Xiaofei Tian

Half course (spring term). W., 2–4.

Examines the cultural implications of the Cultural Revolution (1966-1976). We will examine how art was violent towards people and how violence was turned into an art. We will also consider the link between violence, trauma, memory and writing. Materials include memoir, fiction, essay, "revolutionary Peking Opera," and film.

Note: Expected to be given in 2012–13. Most readings in Chinese. Discussions in Chinese. Count toward Language Citation in Modern Chinese. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts C or Foreign Cultures, but not both.

Prerequisite: Four years of Mandarin or equivalent (with permission of instructor).

Literary Chinese Courses



Chinese 106a. Introduction to Literary Chinese

Catalog Number: 1185

Chen Zhang

Half course (fall term). Tu., Th., 11:30-1. EXAM GROUP: 13, 14

Basic grammar and the reading of simple historical narrative.

Note: An additional lecture slot may be added if enough students enroll, with times to be arranged.

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

Chen Zhang

Half course (spring term). Tu., Th., 11:30-1. EXAM GROUP: 13, 14

Introduction to pre-Qin philosophical texts.

Note: An additional lecture slot may be added if enough students enroll, with times to be arranged.

Prerequisite: Chinese 106a or permission of instructor.

Chinese 107a. Intermediate Literary Chinese

Catalog Number: 3343

Chen Zhang

Half course (fall term). Tu., Th., 10-11:30, and an additional hour to be arranged. EXAM GROUP: 12, 13

A second-year course designed to prepare students for reading and research using materials written in Literary Chinese. The focus in the fall semester will be prose from the Tang and Song dynasties.

Prerequisite: One year of literary Chinese (Chinese 106 or equivalent).

Chinese 107b. Intermediate Literary Chinese

Catalog Number: 6931

Chen Zhang

Half course (spring term). Tu., Th., 10-11:30, and an additional hour to be arranged. EXAM GROUP: 12, 13

A continuation of Chinese 107a, introducing more prose styles as well as poetry and lyric.

Prerequisite: Chinese 107a or equivalent.

China: History Courses

For Undergraduates and Graduates

[Chinese History 113. Society and Culture of Late Imperial China]

Catalog Number: 8264

Michael A. Szonyi

Half course (fall term). Tu., Th., 10-11:30.

This course is a survey of the social and cultural history of China from the Song to the mid-Qing



(roughly from 1000 to 1800). The main topics discussed include urbanization and commerce; gender; family and kinship; education and the examination system, and religion and ritual. The main goal of the course will be to explore the relationship between social and cultural changes and political and intellectual developments.

Note: Expected to be given in 2011–12.

[Chinese History 118. Beyond the Great Wall: History of Relations between China and Inner Asia]

Catalog Number: 6134

Mark C. Elliott

Half course (spring term). T., Th., at 1 with an additional discussion section to be arranged.

The interaction between sedentary and nomadic civilizations is one of the great themes of human history. This course focuses on the classic case of relations between China and Inner Asia from ancient times to the 21st century. Approaching the problem from historical and theoretical perspectives, the course addresses the political, economic, social, and cultural dimensions of the storied Great Wall frontier.

Note: Expected to be given in 2011–12. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Historical Study A.

Cross-listed Courses

[Anthropology 2092. Early China: Archaeology and Texts](#)

[Culture and Belief 26 (formerly Foreign Cultures 81). The Culture of Everyday Life in China]

[Ethical Reasoning 18 \(formerly Moral Reasoning 78\). Classical Chinese Ethical and Political Theory](#)

[Ethical Reasoning 20 (formerly Humanities 11). Self, Serenity, and Vulnerability: East and West]

[*Freshman Seminar 46t. Rebels With a Cause: Tiananmen in History and Memory - \(New Course\)](#)

[*History 76c (formerly *History 90g). Major Themes in World History: Colonialism, Imperialism, and Post-Colonialism]

[*History 79f. Empire and Nation in Russia and China](#)

[*History 86a (formerly *History 1828). Christianity and Chinese Society]

[History 1618. Telling Lives in Asia: Conference Course](#)

[History 1627. China in the Wider World, 1600-2000]

[Societies of the World 12 (formerly Historical Study A-13). China: Traditions and Transformations]

[Societies of the World 20 (formerly Foreign Cultures 48). The Cultural Revolution]

[Societies of the World 37 \(formerly Historical Study A-89\). The Chinese Overseas](#)

Primarily for Graduates

[Chinese History 200r (formerly Chinese History 200). Computational Methods for Historical Analysis]



Catalog Number: 5606

Peter K. Bol

Half course (spring term). M., 2–4.

History takes place through the actions of people who live in time and space. Modern computational methods provide means of analyzing changes in patterns of behavior and thought among large numbers of people spread across many regions. This course introduces the use of GIS, relational databases, social network analysis, text-mining, and topic modeling for the analysis of geographic information, biographical data, and the content of texts. Separate labs will provide introductory instruction in various computational techniques.

Note: Expected to be given in 2011–12.

[Chinese History 224. Introduction to T'ang and Sung Historical Sources]

Catalog Number: 0673

Peter K. Bol

Half course (fall term). M., 1–4.

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 given in 2011–12.

Prerequisite: One year of literary Chinese or equivalent.

[Chinese History 228. Introduction to Neo-Confucianism]

Catalog Number: 2130

Peter K. Bol

Half course (fall term). M., 1–4.

Introduces major Neo-Confucian texts for close reading and analysis. Selections from the writings and records of spoken instruction by Zhou Dunyi, Zhang Zai, Cheng Yi, Cheng Hao, Zhu Xi, Liu Jiuyuan, and others.

Note: Expected to be given in 2012–13.

[Chinese History 232r (formerly Chinese History 232). Topics in Han History: Seminar]

Catalog Number: 7542

Michael J. 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 2011–12.

[Chinese History 235r \(formerly Chinese History 235\). Topics in Warring States History: Seminar](#)

Catalog Number: 1499

Michael J. Puett

Half course (spring term). Tu., 1–4.

Close reading of texts from the Warring States period.

[Chinese History 253r. Topics in Late Imperial History]

Catalog Number: 41366

Mark C. Elliott



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

Review of historical scholarship on China from roughly 1500 to the early 20th century. This course is designed to aid in preparations for the general examinations and in developing a dissertation topic.

Note: Expected to be given in 2011–12.

[Chinese History 255. Popular Religion in Late Imperial China: Historiography]

Catalog Number: 0337

Michael A. Szonyi

Half course (fall term). Tu., 1–4.

We will explore current writings on the relationship between Chinese popular religion and the Buddhist, Daoist, and Confucian traditions since the Song dynasty. We will discuss religion and ritual as important aspects of social experience, which interact with and shed light on other aspects of social relations. Topics discussed will include: syncretism, state regulation and cultural integration; local cults and Daoism.

Note: Expected to be given in 2012–13.

[Chinese History 256r (formerly Chinese History 256). Documents for the Study of Chinese Local History]

Catalog Number: 1081

Michael A. Szonyi

Half course (spring term). Tu., 1–4.

This seminar introduces the different types of primary materials useful for study of the local history of late imperial China. Course meetings are spent translating and discussing these materials.

Note: Expected to be given in 2012–13.

Prerequisite: Fluency in classical Chinese is required.

[Chinese History 260. Cultural Contacts between China and Europe in the Seventeenth Century Seen Through the Eyes of the Participants: Seminar - \(New Course\)](#)

Catalog Number: 45682

Nicolas Standaert

Half course (spring term). M., 1–4. EXAM GROUP: 6, 7, 8

Cultural contacts between China and Europe in the seventeenth century will be studied from four different frameworks: transmission, reception, construction and interaction, with a special focus on the latter. Similar contacts with Korea will be discussed as well.

Prerequisite: Knowledge of Classical Chinese.

[Chinese History 265r. Topics in the History of China and Inner Asia]

Catalog Number: 86687

Mark C. Elliott

Half course (spring term). W., 2–4.

Review of scholarship on the history of China's Inner Asian frontiers from pre-imperial times to the present. The focus in particular years may vary. This course is designed to aid in preparations for the general examinations and in developing a dissertation topic.

Note: Expected to be given in 2012–13.



Chinese History 267. Too Much Water or Too Little Water: Water and Man in the Chinese Environmental History: Seminar - (New Course)

Catalog Number: 24374

Ling Zhang

Half course (fall term). M., 1–4. EXAM GROUP: 6, 7, 8

Examines the history of the water-human relationship in pre-modern China from the environmental perspective to better understand Chinese environmental problems both past and present.

Prerequisite: Reading knowledge of classical Chinese.

Cross-listed Courses

Anthropology 2092. Early China: Archaeology and Texts

***History 2052. Rome and China (Graduate Seminar in General Education) - (New Course)**

[History 2300. Methods in Intellectual History: Proseminar]

[History 2622 (formerly History 2822). Readings on the 1949 Revolution in China: Seminar]

[History 2623 (formerly History 2823). Readings in Modern Chinese History: Proseminar]

History 2624a (formerly History 2624). Research Methods in Late Imperial Chinese

History I: Seminar

History 2624b (formerly History 2624). Research Methods in Late Imperial Chinese

History II: Seminar - (New Course)

China: Literature Courses

For Undergraduates and Graduates

[Chinese Literature 152. Masterworks of Chinese Fiction: Tradition and Modernity]

Catalog Number: 85564

Wai-yee Li

Half course (fall term). W., 1–3.

An introduction to the masterworks of Chinese fiction from the Ming and Qing dynasties. Beyond close readings of excerpts from some of the best known Ming-Qing novels, we will explore the contexts that establish their cultural significance: the traditions they build on, their social and intellectual contexts, the commentaries and sequels they generate, and their reverberations in contemporary culture.

Note: Expected to be given in 2011–12. Readings are in both Chinese and English. For works in classical Chinese, students are allowed to consult translations into modern Chinese or English. The course will be taught in Chinese and counts towards the Chinese language citation. It also fulfills the requirement for the EAS junior tutorial.

Cross-listed Courses

For related courses, see also *China: Language Courses* section.

Aesthetic and Interpretive Understanding 39 (formerly Chinese Literature 150). Old Tales for New Times: The Appropriation of Folklore in Modern and Contemporary China



Culture and Belief 40 (formerly Foreign Cultures 67). Popular Culture and Modern China
Foreign Cultures 68. Authority and the Claims of the Individual in Chinese Literary Culture

Primarily for Graduates

Chinese Literature 201a. History of Chinese Literature: Beginnings through Song

Catalog Number: 0165

Xiaofei Tian

Half course (fall term). W., 1–4. EXAM GROUP: 6, 7, 8

In-depth, scholarly introduction to history of Chinese literature and literary culture from antiquity through 1400. Also examines state of the field and considers issues for future research. Includes bibliography. Essential for generals preparation.

Chinese Literature 201b. History of Chinese Literature: 900-1900: Seminar

Catalog Number: 1760

Wilt L. Idema

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

Continuation of Chinese Literature 201a. Provides an in-depth overview of the development of Chinese literature during the late imperial period, with special (but not exclusive) emphasis on the development of vernacular literature.

[Chinese Literature 226. Honglou meng (Dream of the Red Chamber) and Its Contexts: Seminar]

Catalog Number: 0229

Wai-yee Li

Half course (spring term). Th., 1–4.

A close reading of the masterpiece of Chinese fiction, *Honglou meng*, drawing on commentary traditions and modern interpretations. We will explore how *Honglou meng* sums up and rethinks various aspects of the Chinese tradition.

Note: Expected to be given in 2011–12. Open to undergraduates.

[Chinese Literature 227r (formerly Chinese Literature 227). Early Chinese Historical Writings: Shiji: Seminar]

Catalog Number: 3773

Wai-yee Li

Half course (fall term). Tu., 1–4.

Studies the *Shiji* (Records of the Historian) in the context of Warring States and Han thought and historical developments. Uses the text to explore conceptions of rhetoric, narrative, history, and interpretation in early China. Readings are in classical Chinese, but some of the materials will also be available in English translation.

Note: Expected to be given in 2011–12.

Prerequisite: Reading knowledge of classical Chinese.

Chinese Literature 229r. Literature and Culture of Early Medieval China: Seminar

Catalog Number: 6099



Xiaofei Tian

Half course (fall term). M., 1–4. EXAM GROUP: 6, 7, 8

Focus for 2010-11: Formation of the South and North in the Six Dynasties

[Chinese Literature 239. Gender and Power in Chinese Literature: Seminar]

Catalog Number: 7569

Wai-yee Li

Half course (spring term). M., 1–4.

Uses conceptions of gender and representations of women to examine shifting paradigms of virtues and vices, notions of rhetoric and agency, ideas about politics, power and historical explanations, and boundaries of supernatural realms and religious transcendence.

Note: Expected to be given in 2011–12.

[Chinese Literature 245r (formerly Chinese Literature 245). Topics in Sinophone Studies - Modern Chinese Fiction on the Periphery]

Catalog Number: 0321

David Der-Wei Wang

Half course (spring term). Tu., 2–4.

Survey of modern Chinese fiction and narratology from Taiwan, Hong Kong, and the Chinese Diaspora: polemics of the canon, dialogues between national and regional imaginaries, and literary cultures in the Sinophone world.

Note: Expected to be given in 2011–12.

Chinese Literature 247. Chinese Lyricism and Modernity: Seminar

Catalog Number: 8098

David Der-Wei Wang

Half course (fall term). M., 2–4. EXAM GROUP: 7, 8

Explores lyricism as an overlooked discourse in modern Chinese literature and culture. Looks into lyrical representations in poetic, narrative, and performative terms and re-defines the polemics of "the lyrical" in the making of Chinese modernities.

Chinese Literature 248. Modern Chinese Literature: Theory and Practice: Seminar

Catalog Number: 9486

David Der-Wei Wang

Half course (spring term). Tu., 2–4.

Survey of the concepts, institutions, canons, debates, experiments, and actions that gave rise to, and continually redefined, modern Chinese literature. Equal attention given to theories drawn from Chinese and Western traditions.

Chinese Literature 251. Liaozhai Zhiyi: Editions and Adaptations: Seminar

Catalog Number: 6657

Wilt L. Idema

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

Examines stories from Pu Songling's masterwork, focusing on development of the text.

Compares the author's handwritten copy to later manuscripts and the earliest printed versions; and examines annotated editions, and adaptations.



Chinese Literature 267r. Topics in Tang Literature: Seminar

Catalog Number: 8521

Stephen Owen

Half course (spring term). W., 1–4. EXAM GROUP: 6, 7, 8

A survey of the three centuries of Tang literature, with special attention to critical issues arising in the study of Tang literature.

Prerequisite: Two years of literary Chinese or equivalent.

Chinese Literature 268r. Topics in Song and Yuan Literature: Seminar

Catalog Number: 7143

Stephen Owen

Half course (fall term). Th., 1–4. EXAM GROUP: 15, 16, 17

The topic this semester will be Northern Song prose and classical poetry.

Prerequisite: Two years of literary Chinese or equivalent.

Cross-listed Courses

[Comparative Literature 277. Literature and Diaspora]

Graduate Courses of Reading and Research

***Chinese 300. Reading and Research**

Catalog Number: 4849

Peter K. Bol 8014 (on leave 2010-11), Mark C. Elliott 3329, Wilt L. Idema 2511, Wai-yee Li 3357 (on leave 2010-11), Stephen Owen 7418, Michael J. Puett 1227, Michael A. Szonyi 4842, Xiaofei Tian 3746, and David Der-Wei Wang 5190

Japan: Language Courses

For Undergraduates and Graduates

Japanese Ba. Elementary Japanese

Catalog Number: 2014

Yuko Kageyama-Hunt

Half course (fall term). Sections M., W., F., at 9, 10, or 1, and two additional hours to be arranged for Tu. and Th. EXAM GROUP: 2

This course aims to develop a basic foundation in modern Japanese leading to proficiency in the four language skills of speaking, listening, reading and writing. Emphasis is placed on the use of these skills to communicate effectively in authentic contexts of daily life. Mastery of hiragana, katakana, and approximately 30 Kanji (Chinese characters).

Japanese Bb. Elementary Japanese

Catalog Number: 8728

Yuko Kageyama-Hunt

Half course (spring term). Sections M., W., F., at 9, 10, or 1, and two additional hours to be arranged for Tu. and Th. EXAM GROUP: 2



Continuation of Japanese Ba, with an approximately 150 additional Kanji.

Prerequisite: Japanese Ba or equivalent.

Japanese 106a. Classical Japanese

Catalog Number: 1492

Edwin A. Cranston

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

Introduction to classical grammar and texts.

Prerequisite: Japanese 130b.

Japanese 106b. Kambun

Catalog Number: 2602

Edwin A. Cranston

Half course (spring term). M., W., F., at 11.

Introduction to *Kambun*.

Prerequisite: Japanese 106a or equivalent.

[Japanese 106c. Later Classical Japanese]

Catalog Number: 7307

Edwin A. Cranston

Half course (spring term). M., W., F., at 11. EXAM GROUP: 4

Post-Heian writings in Classical Japanese.

Note: Expected to be given in 2011–12.

Prerequisite: Japanese 106a or equivalent.

Japanese 120a. Intermediate Japanese I

Catalog Number: 8152

Yasuko Matsumoto

Half course (fall term). Sections M., W., F., at 9, 10, or 1 and two additional hours on Tu and Th to be arranged. EXAM GROUP: 2, 11

Second-year intermediate level course aimed at consolidation of the basic grammatical patterns of Japanese and development of reading, writing, speaking, and listening skills to the level necessary for communication in everyday life in Japanese society. Introduction of approximately 300 Chinese characters beyond those introduced in Bb.

Prerequisite: Japanese Bb or equivalent.

Japanese 120b. Intermediate Japanese I

Catalog Number: 6433

Yasuko Matsumoto

Half course (spring term). Sections M., W., F., at 9, 10, or 1 and two additional hours on Tu and Th to be arranged. EXAM GROUP: 2, 11

Continuation of Japanese 120a. Approximately 300 additional Chinese characters.

Japanese 130a. Intermediate Japanese II

Catalog Number: 4855

Satomi Matsumura



Half course (fall term). M., through F., at 9, 10, or 1. EXAM GROUP: 2, 11

Third-year intermediate advanced course. Development of skills in reading authentic materials from contemporary Japanese media and fiction and in aural comprehension of contemporary television news and drama with decreased reliance on pedagogical aids. Development of speaking and writing skills to an increasingly sophisticated level. Introduction of approximately 300 additional Chinese characters beyond those introduced in 120b.

Prerequisite: Japanese 120b or equivalent.

Japanese 130b. Intermediate Japanese II

Catalog Number: 6904

Satomi Matsumura

Half course (spring term). M., through F., at 9, 10, or 1. EXAM GROUP: 2, 11

Continuation of Japanese 130a. Approximately 300 additional Chinese characters.

Japanese 140a. Advanced Modern Japanese

Catalog Number: 3688

Yasunori Fujisaki

Half course (fall term). Sections: M. through F., at 10 or 1. EXAM GROUP: 3, 12

Readings of modern texts in both rapid and in-depth modes. Comprehension of media news and drama. Advanced conversation and composition on topics related to the preceding.

Prerequisite: Japanese 130b.

Japanese 140b. Advanced Modern Japanese

Catalog Number: 8551

Yasunori Fujisaki

Half course (spring term). Sections: M. through F., at 10 or 1. EXAM GROUP: 3, 12

Continuation of Japanese 140a.

Japanese 150a. Readings and Discussion in Japanese Social Sciences

Catalog Number: 4693

Yasunori Fujisaki

Half course (fall term). M., W., F. at 9. EXAM GROUP: 2

Selected readings and discussion in contemporary Japanese on topics in social studies, culture, education, politics, business, economy, psychology, and anthropology, supplemented by selections from audiovisual materials on current social issues.

Note: Conducted in Japanese.

Prerequisite: Japanese 140b.

Japanese 150b. Readings and Discussion in Japanese Social Sciences

Catalog Number: 0984

Yasunori Fujisaki

Half course (spring term). M., W., F., at 9. EXAM GROUP: 2

Continuation of Japanese 150a.

Prerequisite: Japanese 150a.

Cross-listed Courses



[Linguistics 174. Tense and Aspect in Japanese]

[Linguistics 176. History and Prehistory of the Japanese Language]

Primarily for Graduates

[Japanese 210a. Reading Scholarly Japanese for Students of Chinese and Korean]

Catalog Number: 9182

Wesley M. Jacobsen

Half course (fall term). M., W., F., at 9.

Development of skills in reading and translating academic genres of Japanese, with special attention to Japanese scholarship on Chinese and Korean studies. Introduction to old kana usage and classical forms commonly used in scholarly writing.

Note: Expected to be omitted in 2010–11. Expected to be given in 2011–12.

Prerequisite: Japanese 120b, and graduate standing in some field of Chinese or Korean studies.

[Japanese 210b. Reading Scholarly Japanese for Students of Chinese and Korean]

Catalog Number: 8918

Wesley M. Jacobsen

Half course (spring term). M., W., F., at 9.

Continuation of Japanese 210a.

Note: Expected to be omitted in 2010–11. Expected to be given in 2011–12.

Prerequisite: Japanese 210a.

Japan: History Courses

For Undergraduates and Graduates

[Japanese History 115. Religion and Society in Edo and Meiji Japan]

Catalog Number: 5756

Helen Hardacre

Half course (fall term). W., 1–3.

Examination of religion and society in Japan from 1600-1912, beginning with an era of state control over religious institutions and religious affiliations of the populace, followed by the demise of the Edo-period system and diversification of religious practice in context of rapid social change, modernization, and imperialism during the Meiji period. Separate section for students able to utilize primary sources in Japanese will explore the Maruzen Meiji Microfilm collection in the Harvard-Yenching Library.

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 3957.

Prerequisite: General knowledge of Japanese history and religion is helpful.

[Japanese History 120. Religion and Society in Twentieth-Century Japan]

Catalog Number: 4903

Helen Hardacre

Half course (spring term). W., 1–3.

An examination of religion and society from the end of the Meiji period (1912) to the present. This course explores the meaning of the modern in Japanese religions, the development of the



public sphere and religion's relations with it, religion and nationalism, and the interconnections of religion and social change with materialism, consumerism, pacifism, and spiritualism.

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 3958.

Prerequisite: General knowledge of Japanese history and religion is helpful. Enrollment in Japanese History 115 recommended but not required.

Japanese History 126. Shinto: Conference Course

Catalog Number: 3097

Helen Hardacre

Half course (fall term). W., 1–3.

An examination of Shinto, emphasizing its concepts of deity (*kami*), patterns of ritual and festival, shrines as religious and social institutions, political culture and interactions with party politics, and its contribution to contemporary youth culture.

Note: General knowledge of Japanese history and religion is helpful. Japanese language is not required, but several meetings will be held for students able to use Japanese-language sources. Offered jointly with the Divinity School as 3960.

Japanese History 145. Lady Samurai in Medieval Japan

Catalog Number: 65457

Tomoko Kitagawa

Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

This course will offer a look at gender representation found in original historical records such as letters and diaries, and examine women's roles in society, ways of life, and sexuality in Japan from the 12th century to the end of 16th century with a comparison to their male contemporaries – the Samurai.

Note: This course, when taken for a letter grade, meets the Core area requirement for Historical Study B.

Japanese History 146. Kyoto: The Capital of Medieval Japan

Catalog Number: 21259

Tomoko Kitagawa

Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

Throughout the medieval times, Kyoto remained the capital of Japan. As the residence of emperors, this capital saw a unique set of physical and cultural developments. This course examines the various cultural elements of medieval Kyoto, as well as the conditions and changes in daily life, material productions and consumptions, and religious practices.

Note: This course, when taken for a letter grade, meets the Core area requirement for Historical Study B.

Japanese History 150. Early Modern Japan - (New Course)

Catalog Number: 34071

David Howell

Half course (fall term). Tu., Th., at 2 with a discussion section Thursday afternoon. EXAM GROUP: 16

This course provides an introduction to the history and culture of Japan in the seventeenth through nineteenth centuries. This was the Tokugawa period, the age of samurai rule, in which



many elements of modern Japanese culture took familiar form. It was also the time when the roots of Japan's emergence as a modern state were laid.

Cross-listed Courses

***History 76a (formerly *History 1858). Japanese Imperialism**
[*History 86b (formerly *History 1843). Imperial Japan and the US]
History 1621. Tokyo: History and the City, 1600-2000 - (New Course)
[History 1623 (formerly History 1851). 20th-Century Japan]
[History of Art and Architecture 18k. Introduction to Japanese Art]
Societies of the World 13 (formerly Historical Study A-14). Japan in Asia and the World
[Societies of the World 33 (formerly Foreign Cultures 84). Tokyo]

Primarily for Graduates

[Japanese History 255. Topics in the Study of Shinto]

Catalog Number: 9448

Helen Hardacre

Half course (spring term). W., 4–6.

State Shinto: an examination of aspects of Shinto history and practice, 1868-1945, emphasizing recent scholarship seeking to clarify the proper use and definition of the term State Shinto.

Note: Expected to be given in 2011–12.

Prerequisite: Reading knowledge of modern Japanese.

[Japanese History 260r. Topics in Japanese Cultural History]

Catalog Number: 4539

Shigehisa Kuriyama

Half course (spring term). M., 2–4.

Focus for 2009-10: the imagination of money, and its relationship to the science, pictures, and writings of the Edo period. Special attention to the transition from cultures of curiosity to cultures of irony.

Note: Expected to be given in 2011–12.

Prerequisite: Advanced reading knowledge of Japanese with some acquaintance with (or at least concurrent study of) *bungo* and *kambun*.

[Japanese History 265. The Muromachi Period: Culture and Context]

Catalog Number: 79695

Melissa M. McCormick

Half course (fall term). Th., 2–4.

This graduate seminar surveys the most significant scholarly literature on the cultural history of Japan's Muromachi period (ca. 1392-1573), with an emphasis on recent publications. Topics to be explored include the built environment of the capital and its institutions; cultural patronage and politics; gender and representation; the material culture of death rituals, funerals, and religious ritual; and the status of the imperial institution during this period.

Note: Expected to be given in 2011–12.



Japanese History 270. Early Modern Japanese History: Proseminar - (New Course)

Catalog Number: 85593

David Howell

Half course (fall term). W., 2–5. EXAM GROUP: 7, 8, 9

This seminar surveys the recent English-language literature on the history of early modern Japan, roughly from the late sixteenth century to around 1875.

Japanese History 271. "Compassion" in Early Modern Japan: Seminar - (New Course)

Catalog Number: 49178

David Howell

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

This seminar deals with the politics, society, and culture of Japan around 1700, focusing particularly on the so-called Laws of Compassion. Readings will include primary and secondary sources in Japanese and English.

Cross-listed Courses

***History 2651 (formerly *History 2851). Japanese History: Seminar**

History 2653 (formerly History 2853). Historiography of Modern Japan: Proseminar

Religion 2070. Topics in Modern Japanese Religions

Japan: Literature Courses

For Undergraduates and Graduates

[Japanese Literature 124. The Tale of Genji in Word and Image]

Catalog Number: 2181

Melissa M. McCormick

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

Introduces students to *The Tale of Genji*, often called the world's first novel, authored by the court lady Murasaki Shikibu around the year 1000 CE. In addition to a close reading of the tale, topics for examination include Japanese court culture, women's writing, and the tale's afterlife in painting, prints, drama, manga, and film.

Note: Expected to be given in 2011–12.

Japanese Literature 133 (formerly Japanese Literature 250r). Gender and Japanese Art

Catalog Number: 2144

Melissa M. McCormick

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

Examines the role of gender in the production, reception, and interpretation of visual images in Japan from the twelfth through the twenty-first centuries. Topics include Buddhist conceptions of the feminine and Buddhist painting; sexual identity and illustrated narratives of gender reversals; the dynamics of voyeurism in Ukiyo-e woodblock prints; modernization of images of "modern girls" in the 1920s; and the gender dynamics of girl culture in manga and anime.



Japanese Literature 161. Introduction to Japanese Animation

Catalog Number: 49149

Tomiko Yoda

Half course (spring term). Tu., Th., 2-3:30 with weekly discussion sections and Sunday evening film screenings. EXAM GROUP: 16, 17

This course examines a wide range of contemporary animated films and TV series made in Japan through their generic conventions, formal aesthetics, and narrative themes. Special attention will be paid to the relations between anime and various other commercial as well as non-commercial mediums such as manga, live-action films, video games, pop music, character merchandises, and fanzines.

Note: This course, when taken for a letter grade, meets the General Education requirement for Aesthetic and Interpretive Understanding or the Core area requirement for Literature and Arts B.

Japanese Literature 162. Girl Culture, Media, and Japan

Catalog Number: 27841

Tomiko Yoda

Half course (fall term). T., Th., 2-3:30 p.m. and some additional evening screenings to be arranged. EXAM GROUP: 16, 17

The course examines the ways in which girlhood and girl culture have figured in the construction of gender, nation, and popular medias in modern to contemporary Japan, from the 1920s to the present. We will study visual and textual mediums, including novels, magazines, films, manga, and animation, paying attention to principal transformations that have marked the history of modern girl culture in Japan. No prior knowledge of Japanese language or history is expected.

Note: This course, when taken for a letter grade, meets the Core area requirement for either Foreign Cultures or Literature and Arts C, but not both.

Japanese Literature 163. From Myth to Manga: A Survey of Pre-Modern Japanese Literature in Translation

Catalog Number: 80564

Robert Goree

Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

This course surveys Japanese literature from the seventh to the nineteenth centuries—including myths, court poetry, narrative romances, diaries, essays, military tales, noh drama, haiku, puppet plays, kabuki, and ghost stories—then traces its modern afterlife to film, television, and manga. Students will develop a critical and historically grounded appreciation of Japan's rich literary tradition by exploring it in light of such topics as religious practice, aesthetic ideals, subjectivity, the supernatural, Chinese influence, war, gender, and sexuality.

Note: This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

Cross-listed Courses

***Freshman Seminar 31g. The Pleasures of Japanese Poetry: Reading, Writing, and Translation**

***Freshman Seminar 33w. Moving Pictures: Pictorial Narrative in Japan**



Primarily for Graduates

[Japanese Literature 221. Gender, Nation, and Japanese Literature]

Catalog Number: 12734

Tomiko Yoda

Half course (spring term). M., 3–5.

This course explores the interrelated formation of gender, nation, and literature in the history of Japanese literature and literary criticism. The readings will include premodern and modern literary texts, as well as other historical and theoretical sources.

Note: Expected to be given in 2011–12.

Japanese Literature 233r. Nara and Heian Court Literature: Seminar

Catalog Number: 8614

Edwin A. Cranston

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

Topic: *Genji monogatari*

Prerequisite: Japanese 106a or equivalent.

Japanese Literature 270. Topics in Modern and Contemporary Japanese Fiction: Seminar - (New Course)

Catalog Number: 10263

Tomiko Yoda

Half course (spring term). M., 3–5:30. EXAM GROUP: 8, 9

A seminar course on the history, theory, and practice of modern to contemporary Japanese fiction. The course will be organized around a specific theme, time period, a cluster of writers, critics, or genres.

Japanese Literature 271. Topics in Gender and Culture in Japan: Seminar - (New Course)

Catalog Number: 76892

Tomiko Yoda

Half course (fall term). M., 3–5:30. EXAM GROUP: 8, 9

A seminar course that studies the constructions of gender and gender relations in Japan through the examination of various forms of expressive culture (visual, textual, sonic) in their historical contexts.

Cross-listed Courses

[Comparative Literature 277. Literature and Diaspora]

Graduate Courses of Reading and Research

***Japanese 300. Reading and Research**

Catalog Number: 4627

Ryuichi Abe 4974, Edwin A. Cranston 1186, Andrew Gordon 1891 (on leave fall term), Helen Hardacre 3191 (on leave spring term), Wesley M. Jacobsen 3443 (on leave 2010-11), Shigehisa Kuriyama 5269 (on leave 2010-11), Satomi Matsumura 2665, and Melissa M. McCormick 5331



Korea: Language Courses

Primarily for Undergraduates

***Korean 91r. Supervised Reading and Research - (New Course)**

Catalog Number: 79216

Sang-suk Oh

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

Independent reading and research in Korean Language.

Note: Open to students who have completed Korean 150b and 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.

Prerequisite: Korean 150b and permission of course head.

For Undergraduates and Graduates

Korean Ba. Elementary Korean

Catalog Number: 8739

Sang-suk Oh

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. After successful completion of this course, students are expected to be able to handle a limited number of interactive, task-oriented, and social situations and to have sufficient control of the writing system to interpret written language in areas of practical needs.

Korean Bb. Elementary Korean

Catalog Number: 8718

Sang-suk Oh

Half course (spring term). M., W., F., at 11, and two additional hours to be arranged. EXAM

GROUP: 4

Continuation of Korean Ba.

Prerequisite: Korean Ba or equivalent.

Korean Bxa. Elementary Korean for Advanced Beginners

Catalog Number: 0120

Mi-Hyun Kim

Half course (fall term). M., W., F., at 9, and two additional hours to be arranged. EXAM

GROUP: 2

Designed for students with significant listening and speaking background, either from prior formal learning or previous exposure to a Korean speaking community. Introductory Korean course, with emphasis on reading and writing. After successful completion of this course, students are expected to be able to understand main ideas and/or some facts from the simple connected texts dealing with basic personal and social needs and to be able to meet a number of practical writing needs.



Korean Bxb. Elementary Korean for Advanced Beginners

Catalog Number: 3031

Mi-Hyun Kim

Half course (spring term). M., W., F., at 1, and two additional hours to be arranged. EXAM

GROUP: 6

Continuation of Korean Bxa.

Korean 120a. Intermediate Korean

Catalog Number: 5884

Mi-Hyun Kim

Half course (fall term). M., W., F., at 10, and two additional hours to be arranged. EXAM

GROUP: 3

Continuation of elementary Korean to consolidate students' knowledge of the fundamental grammatical structures of Korean with an aim to increase their abilities to communicate using Korean in a wide range of daily-life transactional situations. After successful completion of second-year Korean, students are expected to handle most uncomplicated communicative tasks and social situations and read consistently with understanding of simple connected texts dealing with personal and social needs.

Prerequisite: Korean Bb or equivalent.

Korean 120b (formerly Korean 102b). Intermediate Korean

Catalog Number: 8590

Mi-Hyun Kim

Half course (spring term). M., W., F., at 10, and two additional hours to be arranged. EXAM

GROUP: 3

Continuation of Korean 120a.

Prerequisite: Korean 120a or equivalent.

Korean 130a. Pre-advanced Korean

Catalog Number: 2071

Sang-suk Oh

Half course (fall term). M., 4, W., 3, and two additional hours to be arranged.

Continuation of intermediate Korean, to consolidate the student's knowledge of the grammatical structures of Korean with an aim to increase their abilities to communicate using Korean in a wide range of familiar and everyday topics, current societal events, and factual and concrete topics relating to personal interests. After successful completion of third-year Korean, students are expected to be able to describe and narrate about concrete and factual topics of personal and general interest.

Prerequisite: Korean 120b or equivalent.

Korean 130b. Pre-advanced Korean

Catalog Number: 2662

Sang-suk Oh

Half course (spring term). M., 4-6 and W., 3-5, and two additional hours to be arranged. EXAM

GROUP: 8, 9



Continuation of Korean 130a.

Prerequisite: Korean 130a or equivalent.

Korean 140a. Advanced Korean

Catalog Number: 5723

Mi-Hyun Kim

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

Development of skills in reading materials from contemporary Korean media and fiction and in aural comprehension of contemporary television news and drama with decreased reliance on pedagogical aids. After successful completion of fourth-year Korean, students should be able to satisfy the requirements of various everyday, school, and work situations and follow essential points of written discourse which are abstract and linguistically complex, and also to write about a variety of topics in detail with precision.

Prerequisite: Korean 130b or equivalent.

Korean 140b. Advanced Korean

Catalog Number: 3011

Mi-Hyun Kim

Half course (spring term). M., Th., 4-5:30 with one additional hour to be arranged. EXAM GROUP: 9, 18

Continuation of Korean 140a.

Prerequisite: Korean 140a or equivalent.

Korean 150a. Readings in Cultural Studies

Catalog Number: 1936

Sang-suk Oh

Half course (fall term). Tu., 3-6 with two additional hours to be arranged. EXAM GROUP: 8, 9

Selected readings in contemporary Korean on topics in art, film, drama, and cultural studies, supplemented by selections from audio-visual media on traditional and current cultural events. After completion of Korean 150a and 150b, students are expected to be able to participate in most formal and informal conversations on practical, social, professional, and abstract topics and read with almost complete comprehension and at normal speed expository prose on unfamiliar subjects and a variety of literary texts.

Prerequisite: Korean 140b or equivalent.

Korean 150b. Readings in Cultural Studies

Catalog Number: 1282

Sang-suk Oh

Half course (spring term). Th., 3-6, with one additional hour to be arranged.

Continuation of Korean 150a.

Prerequisite: Korean 140b or equivalent.

Korea: History Courses

For Undergraduates and Graduates



[Korean History 111. Traditional Korea]

Catalog Number: 3709

Sun Joo Kim

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

Survey of the history of Korea, from earliest times to the 19th century. Examines various interpretive approaches and issues in the political, social, economic, intellectual, cultural, and diplomatic history of premodern Korea.

Note: Expected to be given in 2012–13.

Korean History 118. Social History of Premodern Korea

Catalog Number: 3231

Hwisang Cho

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

This seminar is designed to take a comprehensive look at social, political, cultural, and material lives of Chosôn Korea (1392-1910). The seminar will use "Confucianism" and diglossic culture as two main analytical tools to discuss changing political and intellectual culture, family structure and ritual practices, popular culture, gender, language and writing, perceptions of Korea, East Asia and the world, and conceptions of individual and national self.

Korean History 130. The Recurring Past--Early Korea and Northeast Asia as History and Identity - (New Course)

Catalog Number: 40272

Mark Edward Byington

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

With a focus on Korea's proto-historic and early historic periods, this course will explore the question of history as shaper of identity, looking at the ways the remote past surfaces repeatedly in modern context. We will examine international disputes over historical interpretation, the popularization of the ancient past in popular culture, and the politicization of history in both North and South Korea.

Cross-listed Courses

***Freshman Seminar 48v. North Korea as History and Crisis**

[Societies of the World 27 (formerly Historical Study A-75). The Two Koreas]

Primarily for Graduates

[Korean History 230r. Readings in Premodern Korean History]

Catalog Number: 4497

Sun Joo Kim

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

A study of social, political, economic, and intellectual history of premodern Korea reviewing major scholarship in the field. Designed primarily for graduate students preparing for the general examination. All readings are in English.

Note: Expected to be given in 2011–12.

Prerequisite: Korean History 111 or equivalent.



[Korean History 240r. Selected Topics in Premodern Korean History: Seminar]

Catalog Number: 9837

Sun Joo Kim

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

Reading and research of selected primary sources and secondary works on premodern Korean history.

Note: Expected to be given in 2012–13.

Prerequisite: Korean History 111 or equivalent and reading proficiency in Korean. Reading ability in classical Chinese and Japanese helpful.

Korean History 253r. Modern Korean History: Proseminar

Catalog Number: 0365

Carter J. Eckert

Half course (fall term). W., 3–5. EXAM GROUP: 8, 9

An introduction to some of the current issues in modern Korean history through selected readings. Designed primarily for entering graduate students. Undergraduates with a basic knowledge of modern Korean History (Historical Study A-75 or its equivalent) are also welcome.

***Korean History 255r. Modern Korean History: Seminar**

Catalog Number: 0713

Carter J. Eckert

Full course (indivisible). Th., 2–4. EXAM GROUP: Fall: 16, 17

Readings and research in modern Korean history. Students are required to write a seminar paper based largely on primary materials

Prerequisite: Korean History 253r or equivalent, and reading proficiency in Korean.

[Korean History 260r (formerly Korean History 260hfr). Readings in Modern Korean History]

Catalog Number: 5372

Carter J. Eckert

Full course (indivisible). Hours to be arranged.

Explores the history of the field through an examination of major scholarship. Designed primarily for graduate students preparing for the general examination.

Note: Expected to be given in 2011–12.

Korean History 270. Readings in Early Korean and Northeast Asian History: Seminar - (New Course)

Catalog Number: 55379

Mark Edward Byington

Half course (spring term). M., 1–4. EXAM GROUP: 6, 7, 8

This course involves close readings in various topics related to early Korean History, reinforcing the view of early Korea as an active component in a very dynamic East Asian cultural matrix.

Prerequisite: Reading proficiency in classical Chinese and one of either Korean, Chinese or Japanese.



Korea: Literature Courses

For Undergraduates and Graduates

Korean Literature 132. Korean Literature in Translation

Catalog Number: 7838

David McCann

Half course (spring term). Tu., Th., 10–11:30.

A survey of modern and pre-modern Korean literature in translation. Major genres, authors, works, periods; historical development of the field, including sequences of interpretive models and positions, Korean and foreign.

Cross-listed Courses

Aesthetic and Interpretive Understanding 35. Forms in Korean Cultural History

Primarily for Graduates

[Korean Literature 210r. Pre-Modern Korean Literature]

Catalog Number: 6342

David McCann

Half course (fall term). Th., 1–3.

Close reading in a number of literary forms, including the essay, histories, prose fiction, songs, poetry, and p'ansori.

Note: Expected to be given in 2011–12. Readings in English and Korean.

Prerequisite: Korean Literature 132 or equivalent.

Korean Literature 212. Modern Korean Poetry

Catalog Number: 5627

David McCann

Half course (fall term). W., 1–3.

Major and minor voices in 20th and 21st-century Korean poetry. Attention to the practices of reading and translation, and to the political contexts of modern Korean poetry.

Note: Readings in English and Korean.

Prerequisite: Korean Literature 132 or equivalent.

Cross-listed Courses

[Comparative Literature 277. Literature and Diaspora]

Graduate Courses of Reading and Research

***Korean 300. Reading and Research**

Catalog Number: 8122

Carter J. Eckert 1178, Sun Joo Kim 3821 (on leave 2010-11), David McCann 3635, and Sang-suk Oh 3856



Manchu: Language Courses

For Undergraduates and Graduates

Manchu A. Elementary Manchu

Catalog Number: 8961

Mark C. Elliott

Half course (fall term). Tu., Th., 10–11:30.

Introduction to Manchu grammar with elementary readings in Manchu script.

Manchu B. Elementary Manchu

Catalog Number: 1625

Mark C. Elliott

Half course (spring term). Tu., Th., 10–11:30.

Readings in a variety of historical and literary texts with emphasis on Manchu documentary sources, with and without diacritical marks.

[Manchu 120a. Intermediate Manchu]

Catalog Number: 4190

Mark C. Elliott

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

Readings in a wide variety of Manchu texts. English to Manchu translation exercises.

Note: Expected to be given in 2011–12.

[Manchu 120b. Advanced Manchu]

Catalog Number: 1414

Mark C. Elliott

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

Intensive reading in Manchu archival materials, other historical texts and literary texts. Some texts in pre-diacritical form. English to Manchu translation exercises.

Note: Expected to be given in 2011–12.

Primarily for Graduates

Graduate Courses of Reading and Research

***Manchu 300. Reading and Research**

Catalog Number: 8735

Mark C. Elliott 3329

Mongolian: Language Courses

For Undergraduates and Graduates

Mongolian 120a. Intermediate Written Mongolian

Catalog Number: 0810



Mark C. Elliott

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

Readings in classical and modern Mongolian texts.

Mongolian 120b. Advanced Written Mongolian

Catalog Number: 4032

Mark C. Elliott

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

Continuation of Mongolian 120a.

Graduate Courses of Reading and Research

***Mongolian 300. Reading and Research**

Catalog Number: 1345

Mark C. Elliott 3329

Tibetan and Himalayan Studies

Tibetan History

[Tibetan History 100. A Cultural and Political History]

Catalog Number: 10107

Leonard W. J. van der Kuijp

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

This lecture class will examine the rich history of the Tibetan Plateau. Special attention will be paid to the rise of the Tibetan Empire (7th-9th centuries), the period when "Tibet" was part of the "Great Mongol Land" (1240-ca. 1350), and the formation of Ganden Podrang government in Lhasa (1643-1959), headed by the Dalai Lamas. The historical development of Tibetan Buddhism will also be examined, together with several of its most noteworthy institutions, including that of the reincarnate lama as exemplified by especially the Dalai and Panchen Lamas. *Note:* Expected to be given in 2011–12.

Cross-listed Courses

Religion 1705 (Buddhism in Tibet). Tibetan Buddhism

[Tibetan 91r. Supervised Reading and Research]

Tibetan 101b. Elementary Classical Tibetan

Tibetan 102b. Intermediate Classical Tibetan

Tibetan 104br. Elementary Colloquial Tibetan

Tibetan 202r. Readings in Advanced Philosophical Tibetan

[Tibetan 203. Readings in Madhyamaka/Dbu ma]

Tibetan 219. Tibetan Religious Literature: Seminar

Tibetan 227. History of Tibetology: Seminar

***Tibetan 300. Reading and Research**

***Tibetan 302. Direction of AM Theses**



Uyghur: Language Courses

For Undergraduates and Graduates

[Uyghur A. Elementary Uyghur]

Catalog Number: 8767

Mark C. Elliott

Half course (fall term). Tu., Th., 8:30–10.

Introduction to Uyghur, the Turkic language spoken in China's Xinjiang Uyghur Autonomous Region and throughout Central Asia. Course covers grammar, reading and writing (in the modified Arabic alphabet adopted in the PRC), and conversation practice.

Note: Expected to be given in 2011–12.

[Uyghur B. Elementary Uyghur]

Catalog Number: 5271

Mark C. Elliott

Half course (spring term). Tu., Th., 8:30–10.

Continuation of Uyghur A. Completion of basic Uyghur grammar, listening and speaking practice with the aid of audio-visual materials, selected readings from Uyghur literature and academic prose.

Note: Expected to be given in 2011–12.

[Uyghur 120A. Intermediate/Advanced Uyghur](#)

Catalog Number: 9312

Mark C. Elliott

Half course (fall term). Tu., Th., 8:30–10. EXAM GROUP: 10, 11

Additional training in modern Uyghur, with attention to improvement of spoken fluency and comprehension. Extensive readings in a range of genres, including historical writing and academic prose as well as religious texts.

Prerequisite: Uyghur B or permission of instructor.

[Uyghur 120B. Intermediate/Advanced Uyghur](#)

Catalog Number: 4234

Mark C. Elliott

Half course (spring term). Tu., Th., 8:30–10. EXAM GROUP: 10, 11

Continuation of Uyghur 120A.

Prerequisite: Uyghur 120A or permission of instructor.

Graduate Courses of Reading and Research

***Uyghur 300. Readings in Uyghur Language and Literature**

Catalog Number: 5357

Mark C. Elliott 3329

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

Guided readings in advanced Uyghur-language texts. May be repeated for credit.

Prerequisite: Uyghur 120B or permission of instructor.



Vietnam: Language Courses

For Undergraduates and Graduates

Vietnamese Ba. Elementary Vietnamese

Catalog Number: 3873

Binh Ngo

Half course (fall term). M. through F., at 9. EXAM GROUP: 2, 11

Surveys the fundamentals of Vietnamese phonetics, grammar, and vocabulary to provide students with basic ability to understand, speak, read, and write Vietnamese. Conversational ability is stressed through an interactive, communication-oriented approach.

Vietnamese Bb. Elementary Vietnamese

Catalog Number: 9940

Binh Ngo

Half course (spring term). M. through F., at 9. EXAM GROUP: 2, 11

Continuation of Vietnamese Ba, with introduction of additional Vietnamese texts and excerpts from Vietnamese newspapers to enhance reading skills.

Prerequisite: Vietnamese Ba or permission of the instructor.

Vietnamese 120a. Intermediate Vietnamese

Catalog Number: 3276

Binh Ngo

Half course (fall term). M., 3-5, and two additional hours to be arranged. EXAM GROUP: 8, 9

Further development of speaking, reading, writing, and aural comprehension. Texts on Vietnamese geography, history, culture, and customs will be used, as well as audiotapes and videos. Students are expected to speak Vietnamese in all class discussions.

Note: Conducted entirely in Vietnamese.

Prerequisite: Vietnamese Bb or permission of instructor.

Vietnamese 120b. Intermediate Vietnamese

Catalog Number: 6178

Binh Ngo

Half course (spring term). Tu., 2-4, Th., at 3, and two additional hours to be arranged. EXAM GROUP: 8

Continuation of Vietnamese 120a.

Note: Conducted entirely in Vietnamese.

Prerequisite: Vietnamese 120a or permission of instructor.

[Vietnamese 130a. Advanced Vietnamese]

Catalog Number: 6287

Binh Ngo

Half course (fall term). M., W., 4-6, and two additional hours to be arranged. EXAM GROUP: 9

Development of high proficiency in Vietnamese. Introduction of complex grammar and vocabulary, using authentic Vietnamese texts, audiotapes, videos, and translation of English news articles into Vietnamese. Discussions focus on selected short stories and poems.



Note: Expected to be given in 2011–12. Conducted entirely in Vietnamese.

Prerequisite: Vietnamese 120b or permission of instructor.

Vietnamese 130b. Advanced Vietnamese

Catalog Number: 3968

Binh Ngo

Half course (spring term). Th., F., 4–6. EXAM GROUP: 9, 18

Continuation of Vietnamese 130a.

Note: Conducted entirely in Vietnamese.

Prerequisite: Vietnamese 130a or permission of instructor.

Vietnamese 140a. Advanced-High Vietnamese

Catalog Number: 97175

Binh Ngo

Half course (fall term). Tu., Th., 2:30–4.

Development of near-native fluency in oral and written expression. Modern Vietnamese literature, including short stories, excerpts from novels, and poems in the original, that were published in Vietnam from the 1930s to the present day is used to introduce the complex grammar, idioms, proverbs and some slang expressions commonly used in contemporary Vietnamese. Discussion focuses on Vietnamese culture and issues related to Vietnamese society during that period.

Prerequisite: Vietnamese 130b

Vietnamese 140b. Advanced-High Vietnamese

Catalog Number: 45653

Binh Ngo

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

Continuation of Vietnamese 140a.

Prerequisite: Vietnamese 140a

Vietnam: History Courses

Cross-listed Courses

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

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

History 1617. Mainland Southeast Asia: From Colonies to Independent Nations:

Conference Course - (New Course)

History 1618. Telling Lives in Asia: Conference Course

[History 1619 (formerly History 1820). Premodern Vietnam]

History 1620 (formerly History 1821). Modern Vietnam

Graduate Courses of Reading and Research



***Vietnamese 300. Reading and Research**

Catalog Number: 7211

Binh Ngo 1383

Economics

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Department of Economics

John Y. Campbell, Morton L. and Carole S. Olshan Professor of Economics, Harvard College
Professor (*Chair*)

Philippe Aghion, Robert C. Waggoner Professor of Economics

Alberto F. Alesina, Nathaniel Ropes Professor of Political Economy

Attila Ambrus, Associate Professor of Economics

George-marios Angeletos, Visiting Professor of Economics

Pol Antràs, Professor of Economics (*on leave spring term*)

Susan Athey, Professor of Economics

Anthony Barnes Atkinson, Frank W. Taussig Research Professor of Economics (*University of Oxford*)

Robert J. Barro, Paul M. Warburg Professor of Economics

Efraim Benmelech, Frederick S. Danziger Associate Professor of Economics

Jeffrey Borland, Visiting Professor of Australian Studies (Economics)

Gary Chamberlain, Louis Berkman Professor of Economics

Eric Chaney, Assistant Professor of Economics

Raj Chetty, Professor of Economics (*on leave spring term*)

Richard N. Cooper, Maurits C. Boas Professor of International Economics

David M. Cutler, Otto Eckstein Professor of Applied Economics

Ulrich Doraszelski

Stanley Engerman, Visiting Professor of Economics (*University of Rochester*)

Emmanuel Farhi, Professor of Economics

Martin Feldstein, George F. Baker Professor of Economics

Erica M. Field, John L. Loeb Associate Professor of the Social Sciences

Christopher L. Foote, Visiting Lecturer on Economics (*Federal Bank of Boston*)

Richard B. Freeman, Herbert S. Ascherman Professor of Economics

Benjamin M. Friedman, William Joseph Maier Professor of Political Economy

Roland G. Fryer, Robert M. Beren Professor of Economics

Drew Fudenberg, Frederic E. Abbe Professor of Economics

Edward L. Glaeser, Fred and Eleanor Glimp Professor of Economics



Claudia Goldin, Henry Lee Professor of Economics (*on leave fall term*)
 Gita Gopinath, Professor of Economics
 Jerry R. Green, David A Wells Professor of Political Economy
 Oliver S. Hart, Andrew E. Furer Professor of Economics (*on leave fall term*)
 Elhanan Helpman, Galen L. Stone Professor of International Trade
 Richard A. Hornbeck, Assistant Professor of Economics
 Erik G. Hurst, Visiting Professor of Economics
 Rustam Ibragimov, Associate Professor of Economics
 Guido W. Imbens, Professor of Economics (*on leave spring term*)
 Julian Jamison, Lecturer on Economics
 David William Johnson, Preceptor, Senior (Faculty)
 Dale W. Jorgenson, Samuel W. Morris University Professor
 Lawrence F. Katz, Elisabeth Allison Professor of Economics
 Johann Helmut Kotz, Visiting Lecturer on Economics
 Michael R. Kremer, Gates Professor of Developing Societies (*on leave fall term*)
 David I. Laibson, Robert I. Goldman Professor of Economics, Harvard College Professor
 Owen A. Lamont, Visiting Lecturer on Economics (*Director of Research at DKR Fusion Management*)
 Gregory M. Lewis, Assistant Professor of Economics
 N. Gregory Mankiw, Robert M. Beren Professor of Economics
 Stephen A. Marglin, Walter S. Barker Professor of Economics
 James L. Medoff, Meyer Kestnbaum Professor of Labor and Industry (*on leave 2010-11*)
 Marc J. Melitz, David A. Wells Professor of Political Economy (*on leave spring term*)
 Bruce Meyer, Visiting Professor of Economics
 Jeffrey A. Miron, Senior Lecturer on Economics (*Director of Undergraduate Studies*)
 Julie H. Mortimer, Associate Professor of Economics
 Sendhil Mullainathan, Professor of Economics
 Robert H. Neugeboren, Lecturer on Economics
 Nathan J. Nunn, Assistant Professor of Economics
 Philip Oreopoulos, Visiting William Lyon MacKenzie King Associate Professor of Canadian Studies
 Ariel Pakes, Thomas Professor of Economics
 Kenneth Rogoff, Thomas D. Cabot Professor of Public Policy (*on leave 2010-11*)
 Alvin E. Roth, George Gund Professor of Economics and Business Administration (*on leave spring term*)
 Amartya Sen, Lamont University Professor (*on leave spring term*)
 Andrei Shleifer, Professor of Economics
 Jeremy C. Stein, Moise Y. Safra Professor of Economics
 James H. Stock, Harold Hitchens Burbank Professor of Political Economy
 Tomasz Strzalecki, Assistant Professor of Economics
 Lawrence H. Summers, Charles W. Eliot University Professor
 Martin L. Weitzman, Professor of Economics

Other Faculty Offering Instruction in the Department of Economics



Alberto Abadie, Professor of Public Policy at the John F. Kennedy School of Government (*Kennedy School*)
 Christopher N. Avery, Roy E. Larsen Professor of Public Policy and Management at the John F. Kennedy School of Government (*Kennedy School*)
 Lucian A. Bebchuk, William J. Friedman and Alicia Townsend Friedman Professor of Law, Economics, and Finance (*Law School*)
 George J. Borjas, Robert W. Scrivner Professor of Economics and Social Policy at the John F. Kennedy School of Gov't (*Kennedy School*)
 Amitabh Chandra, Professor of Public Policy (*Kennedy School*)
 Paul Gompers, Eugene Holman Professor of Business Administration (*Business School*)
 Robin Marc Greenwood, Associate Professor of Business Administration (*Business School*)
 Rema N. Hanna, Assistant Professor of Public Policy at the John F. Kennedy School of Government (*Kennedy School*)
 Louis E. Kaplow, Finn M. W. Caspersen and Household International Professor of Law and Economics (*Law School*)
 Asim I. Khwaja, Professor of Public Policy at the John F. Kennedy School of Government (*Kennedy School*)
 Elon Kohlberg, Royal Little Professor of Business Administration (*Business School*)
 Joshua Lerner, Jacob H. Schiff Professor of Investment Banking (*Business School*)
 Jeffrey B. Liebman, Malcolm Wiener Professor of Public Policy at the John F. Kennedy School of Government (*Kennedy School*)
 Joseph P. Newhouse, John D. MacArthur Professor of Health Policy and Management (*Kennedy School, Medical School, Public Health*)
 Gabriel Paquette
 Dwight H. Perkins, Harold Hitchens Burbank Professor of Political Economy, Emeritus
 James Robinson, David Florence Professor of Government
 Dani Rodrik, Rafiq Hariri Professor of International Political Economy at the John F. Kennedy School of Government (*Kennedy School*)
 Donald B. Rubin, John L. Loeb Professor of Statistics
 David Smith, Visiting Assistant Professor of History (*Wilfrid Laurier University*)
 Robert N. Stavins, Albert Pratt Professor of Business and Government at the John F. Kennedy School of Government (*Kennedy School*)
 Trygve Van Regenmortel Throntveit, Lecturer on History
 Jeffrey G. Williamson, Laird Bell Professor of Economics, Emeritus

Tutorials, Junior Seminars, and Senior Thesis Seminars in Economics

Primarily for Undergraduates

***Economics 910r. Supervised Reading and Research**

Catalog Number: 1020

Jeffrey A. Miron

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

Supervised reading leading to a long term paper on a topic or topics not covered by regular courses.

Note: Does not count for concentration credit and may not be taken Pass/Fail. Requires



signatures of the adviser and of the Director of Undergraduate Studies. Application available at the Economics Undergraduate Office at Littauer Center, North Yard.

***Economics 970. Tutorial — Sophomore Year**

Catalog Number: 7923

Jeffrey A. Miron

Half course (spring term). M., 2-3:30; First introductory meeting January 24, 2010. Meets in assigned section thereafter.

A series of small seminars taught in section focusing on applications of economic theory to real problems.

Note: One term required of all Economics concentrators. Enrollment limited to concentrators.

Prerequisite: Both terms of Social Analysis 10 (or equivalent); Statistics 100, 104, or 110; Economics 1010a or 1011a and current enrollment in Economics 1010b or 1011b.

***Economics 975 (formerly *Economics 980). Tutorial — Theory Review**

Catalog Number: 3281

Jeffrey A. Miron

Half course (spring 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 980 Junior Seminars

Junior seminars are lotteried the week before classes start and are restricted to economics concentrators in their junior year. Each course will be limited to 18 students. Please see the Undergraduate Program section of the Economics Department website for instructions on how and when to lottery. Other interested students may apply in person during the first week of classes to the Undergraduate Program Administrator located in Room 113 Littauer Center - North Yard.

***Economics 980b. Education in the Economy**

Catalog Number: 1581 Enrollment: Limited to 18.

Claudia Goldin and Lawrence F. Katz

Half course (spring term). M., 2-4.

An exploration of the role of education in the economy using historical, comparative, and current policy perspectives. Topics include the theory of human capital, role of education in economic growth and distribution, the educational production function, vouchers, charter schools, class size, standards, school equalization, for-profit educational institutions, and the gender gap in college completion. A serious research paper is required, as are several short critical essays of the literature.

***Economics 980e. Corporate Governance**

Catalog Number: 0331

Efraim Benmelech

Half course (spring term). Th., 3-5.

This seminar investigates the different approaches to optimal governance structures of firms. We



will survey current research on agency problems, the market for corporate control, executive compensation, corporate boards and tunneling.

Prerequisite: Economics 1745 is recommended but not required.

***Economics 980m. Market Design**

Catalog Number: 7401

Susan Athey

Half course (fall term). M., 4:15–6:15.

This course studies the design of organized markets, focusing on efficient organization and the incentives created by market rules. Applications include online auction markets, online advertising, government auctions of natural resources, and matching markets (students to classes or schools, medical residents to hospitals, kidneys to recipients). The analysis relies on a mix of documenting the rules of real-world markets, game theoretic analysis, empirical analysis, and experimental work.

***Economics 980p. International Trade Policy - (New Course)**

Catalog Number: 17382

Elhanan Helpman

Half course (fall term). M., 2–4.

Provides a discussion of the economic impacts of international trade policies and the political economy of trade policy formation. The course will focus on analytical methods and therefore requires knowledge of calculus.

***Economics 980s. The Historical Origins of Middle Eastern Development - (New Course)**

Catalog Number: 53797

Eric Chaney

Half course (spring term). Tu., Th., 2:30–4.

Middle Eastern countries enjoyed world economic leadership during the Middle Ages, and continue to play an important role in the world economy. This course will explore the historical development of Middle Eastern economies. Topics include the effects of colonialism, natural resource endowments and religion on economic growth. The course will emphasize how these and other historical factors continue to influence development prospects in the region today.

***Economics 980t. Decision Theory - (New Course)**

Catalog Number: 68904 Enrollment: Limited to 18.

Tomasz Strzalecki

Half course (spring term). W., 1–3.

An introduction to formal models of decision making in economics, including both classical and psychologically-motivated approaches. Topics include risk, uncertainty, ambiguity, and temptation.

***Economics 980u. Immigration Economics - (New Course)**

Catalog Number: 87839

George J. Borjas (Kennedy School)

Half course (fall term). W., 2–4.

There has been a resurgence of international migration in the past few decades. This course



explores the economic determinants and consequences of these population flows. Specific topics include the study of how immigrants are non-randomly selected from the population of the sending countries, the measurement of assimilation in the receiving country, the impact on the labor markets of both receiving and sending countries, and the calculation of the economic benefits from immigration.

Economics 985 Senior Thesis 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. 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 16 students.

***Economics 985a. Research in Microeconomics**

Catalog Number: 7166

Jeffrey A. Miron and members of the Department

Full course. Fall: Tu., 4-6; Spring: Hours to be arranged.

Workshop for seniors writing theses in theoretical and applied microeconomics. Emphasis on choice of research topics, methodology, and data sources. Written and oral presentations of work in progress leading toward completion of a major research paper or senior honors thesis are required.

***Economics 985c. Research in Labor Economics**

Catalog Number: 5409

Jeffrey A. Miron and members of the Department

Full course. Fall: W., 1-3; Spring: Hours to be arranged.

Workshop for seniors writing theses in labor economics and related topics. Emphasis on choice of research topics, methodology, and data sources. Written and oral presentations of work in progress leading toward completion of a major research paper or senior honors thesis are required.

***Economics 985d. Research in Economic Development**

Catalog Number: 4989

Jeffrey A. Miron and members of the Department

Full course. Fall: W., 2:30-4:30; Spring: Hours to be arranged.

Workshop for seniors writing theses in the areas of economic history and economic development, including health and population issues. Emphasis on choice of research topics, methodologies, and data sources. Written and oral presentations of work in progress leading toward completion of a major research paper or senior honors thesis are required.

***Economics 985e. Research in Macroeconomics**

Catalog Number: 3740

Jeffrey A. Miron and members of the Department

Full course. Fall: M., 4-6; Spring: Hours to be arranged.



Workshop for seniors writing theses in the fields of monetary and fiscal policy, business cycles, and economic growth. Emphasis on choice of research topics, methodology, and data sources. Written and oral presentations of work in progress leading toward completion of a major research paper or senior honors thesis are required.

***Economics 985f. Research in International Trade and Finance**

Catalog Number: 7157

Richard N. Cooper

Full course. M., 3–5. EXAM GROUP: 8, 9

Workshop for seniors writing theses in international trade and 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 honors thesis are required.

***Economics 985g. Research in Behavioral and Experimental Economics**

Catalog Number: 2566

Jeffrey A. Miron and members of the Department

Full course. Fall: M., 3-5; Spring: Hours to be arranged.

Workshop for seniors writing theses in behavioral and experimental economics. Emphasis on choice of research topics, methodology, and data sources. Written and oral presentations of work in progress leading toward completion of a major research paper or senior honors thesis are required.

***Economics 985h. Research in Financial Markets**

Catalog Number: 0350

Jeffrey A. Miron and members of the Department

Full course. Fall: Th., 4-6; Spring: Hours to be arranged.

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 985k. Research in Public Economics**

Catalog Number: 0871

Jeffrey A. Miron and members of the Department

Full course. Fall: Th., 3-5; Spring: Hours to be arranged.

Workshop for seniors writing theses in public economics. Emphasis on choice of research topics, methodology, and data sources. Written and oral presentations of work in progress leading toward completion of a major research paper or senior honors thesis are required. Topics have included taxation, health economics, environmental and resource economics, and education.

***Economics 990. Tutorial — Senior Year**

Catalog Number: 7342

Jeffrey A. Miron and members of the Department

Full course. Hours to be arranged.

For students writing a senior thesis out of sequence.



Note: Students who are writing a senior thesis out of sequence (i.e., beginning in the spring) must enroll in Economics 990 in the spring and complete the course in the fall. Students must write a 25-page paper at the end of the first term of Economics 990. Students currently enrolled in Economics 985 may not enroll in Economics 990.

General Economics; Economic Theory; History of Economics

For Undergraduates and Graduates

Economics 10 (formerly Social Analysis 10). Principles of Economics

Catalog Number: 3660

N. Gregory Mankiw, and members of the Economics Department

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

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

Note: Microeconomics (taught in the fall term) is a prerequisite for macroeconomics (taught in the spring term). Students may elect to take only the fall microeconomics course and receive a half-course credit. Taught in a mixture of lectures and small sections. No calculus is used, and there is no mathematics background requirement. Designed for both potential Economics concentrators and those who plan no further work in the field. The Department of Economics strongly encourages students considering concentration to take the full-year course in their freshman year. This is a required course for all economics concentrators and a prerequisite for higher level courses in economics. This course, when both semesters are taken for a letter grade, meets the General Education requirement for either Empirical and Mathematical Reasoning or United States in the World, but not both. This course, when either semester is taken for a letter grade, meets the Core area requirement for Social Analysis. Students may not take both Social Analysis 10 and Economics 10 for credit.

Economics 1010a. Microeconomic Theory

Catalog Number: 1862

Jeffrey A. Miron and Jeffrey Borland

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

Focuses on the optimizing behavior of individual consumers and firms and coordination of individual decisions through markets, including the evaluation of market outcomes. Topics include: theory of the consumer, theory of the firm, decisions involving time and risk, perfect competition, monopoly and monopsony, oligopoly and game theory, markets with asymmetric information, and externalities and public goods.

Note: Economics 1010a fulfills the intermediate microeconomic theory requirement for Economics concentrators. Students may take either Economics 1010a or Economics 1011a for credit. This course, when taken for a letter grade, meets the General Education requirement for



Empirical and Mathematical Reasoning or the Core area requirement for Social Analysis.

Prerequisite: Social Analysis 10 and Mathematics 1a or their equivalents.

Economics 1010b. Macroeconomic Theory

Catalog Number: 2924

Christopher L. Foote (Federal Bank of Boston)

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

Theories and evidence on economic growth and fluctuations. Determination of gross domestic product, investment, consumption, employment, and unemployment. Analysis of interest rates, wage rates, and inflation. Roles of fiscal and monetary policies. Extensions to the international economy.

Note: Economics 1010b fulfills the intermediate macroeconomic theory requirement for Economics concentrators. Students may take either Economics 1010b or Economics 1011b for credit. This course, when taken for a letter grade, meets the General Education requirement for Empirical and Mathematical Reasoning or the Core area requirement for Social Analysis.

Prerequisite: Social Analysis 10. While no specific mathematics course is required, knowledge of calculus at the level of Mathematics 1a is assumed.

Economics 1011a. Microeconomic Theory

Catalog Number: 7230

Edward L. Glaeser

Half course (fall term). Tu., Th., 11:30-1. EXAM GROUP: 13, 14

Economics 1011a is similar to Economics 1010a, but more mathematical and covers more material. The course teaches the basic tools of economics and to apply them to a wide range of human behavior. Tools include consumer theory, optimization under uncertainty, game theory, welfare economics, incentive theory, and the economics of information. Topics include industrial organization, public finance, law and economics, the economics of the family, religion, and riots.

Note: Economics 1011a fulfills the intermediate microeconomic theory requirement for Economics concentrators. Students may take either Economics 1010a or Economics 1011a for credit. This course, when taken for a letter grade, meets the General Education requirement for Empirical and Mathematical Reasoning or the Core area requirement for Social Analysis.

Prerequisite: Mathematics 21a or permission of the instructor.

Economics 1011b. Macroeconomic Theory

Catalog Number: 6993

David I. Laibson and Philippe Aghion

Half course (spring term). Tu., Th., 10-11:30, and a one-hour weekly section to be arranged.

EXAM GROUP: 12, 13

The same topics as in 1010b, but with a more mathematical approach.

Note: Economics 1011b fulfills the intermediate macroeconomic theory requirement for Economics concentrators. Students may take either Economics 1010b or Economics 1011b for credit. This course, when taken for a letter grade, meets the General Education requirement for Empirical and Mathematical Reasoning or the Core area requirement for Social Analysis.

Prerequisite: Economics 1011a, Mathematics 21a, or permission of the instructor.



Economics 1017. A Libertarian Perspective on Economic and Social Policy

Catalog Number: 1197 Enrollment: Limited to 200.

Jeffrey A. Miron

Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

Analyses the libertarian perspective on economic and social policy. This perspective differs from both liberal and conservative views, arguing for minimal government in most arenas. Policies addressed include drug prohibition, gun control, public education, abortion rights, gay marriage, income redistribution, and campaign finance regulation.

Prerequisite: Social Analysis 10, or Economics 10 (fall term) and concurrent enrollment in Economics 10 (spring term).

Economics 1018. Cultural Economics

Catalog Number: 1775

Alberto F. Alesina

Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

Explores the importance of culture on economic outcomes, focusing on how heterogeneity of preferences affects economic choices and where those differences come from. Theoretical topics include group identity, social interactions and networks, evolutionary selection, the importance of the family. Empirical applications include international investment, savings, occupational choices, ethical norms, economic development, fertility decisions.

Prerequisite: Economics 1010a or 1011a, and Economics 1123.

Economics 1030. Psychology and Economics

Catalog Number: 4709 Enrollment: Limited to 100.

David I. Laibson and Andrei Shleifer

Half course (spring term). Tu., Th., 1–2:30; . EXAM GROUP: 15, 16

Psychological concepts include social preferences, impulsivity, bounded rationality, loss-aversion, over-confidence, self-serving biases, hedonics, and neuroscience. Economic concepts include arbitrage, equilibrium, rational choice, utility maximization, Bayesian beliefs, game theory. Integrates these psychological and economic concepts to understand behavioral phenomena such as portfolio choice, saving, procrastination, addiction, asset pricing, auction bidding, labor supply, cooperation, persuasion.

Prerequisite: Social Analysis 10 and knowledge of univariate calculus.

Economics 1032. The Packing Problem: The Behavioral Economics of Scarcity

Catalog Number: 48309

Sendhil Mullainathan

Half course (fall term). W., 3–5. EXAM GROUP: 8, 9

Why do highly successful people have a rush of energy and get things done at the last minute? Why didn't they have that rush earlier? Why does poverty persist around the world? Why is obesity rampant? This course argues that all these questions can be understood by understanding the behavioral economics of scarcity. The lectures will span concepts from mathematics of computation, psychology, evolutionary biology to numerous economic applications.

Note: A research paper is required. This course meets the concentration writing requirement.

Prerequisite: Social Analysis 10, an introductory course in Psychology, and Statistics 100, 101 or 104.



Economics 1051. Introduction to Game Theory

Catalog Number: 3692

Attila Ambrus

Half course (spring term). Tu., Th., 10–11:30; W., 4–5:15. EXAM GROUP: 12, 13

Presents an introduction to the modern game theory, focusing on its use in economics. Main ideas of game theory are introduced and illustrated using examples from industrial organization, labor economics, and macroeconomics.

Note: Students may not take both Economics 1051 and Economics 1052 for credit.

Prerequisite: Economics 1010a or 1011a.

[Economics 1052. Advanced Game Theory]

Catalog Number: 2634

Instructor to be determined

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

Introduction to game theory and its applications to economics at a high level of rigor. Topics include extensive form and strategic form games, Nash's equilibrium and existence theorem, subgame-perfect equilibrium, Bayesian equilibrium, and applications to repeated games, auctions, and bargaining.

Note: Expected to be given in 2011–12. Students may not take both Economics 1051 and Economics 1052 for credit. This course offers an optional writing requirement which if completed will satisfy the concentration writing requirement.

Prerequisite: Economics 1011a and Mathematics 21a, or equivalent.

[Economics 1056. Market Design]

Catalog Number: 69207 Enrollment: Limited to 40.

Susan Athey

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

This course studies the design of organized markets, focusing on efficient organization and the incentives created by market rules. Applications include online auction markets, government auctions of natural resources, procurement auctions, matching markets (students to classes or schools, medical residents to hospitals, kidneys to recipients). The analysis relies on a mix of documenting the rules of real-world markets, game theoretic analysis, empirical analysis, and experimental work. A research paper is optional with advance permission of instructor.

Note: Expected to be given in 2011–12.

Prerequisite: Economics 1011a and either 1051, 1052, 1060, 1070, 1640, or 1641, or permission of instructor.

[Economics 1059 (formerly Theories of Decisionmaking in Economics). Decision Theory]

Catalog Number: 1322

Tomasz Strzalecki

Half course (spring term). M., W., 1-2:30, and a weekly section to be arranged.

An introduction to formal models of decision making in economics, including both classical and psychologically-motivated approaches. Topics include risk, uncertainty, ambiguity, and temptation.

Note: Expected to be given in 2011–12.

Prerequisite: Economics 1010a or 1011a and Mathematics 21a.



[Economics 1060. Contracts and Organizations]

Catalog Number: 3267

Oliver S. Hart

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

Explores theoretical and empirical work on incentive problems within and between organizations (with more emphasis on the theory). Topics include agency problems arising from moral hazard and asymmetric information, team problems, career concerns, relational contracts, incomplete contracts, boundaries of the firm, authority and delegation, financial contracting, public ownership.

Note: Expected to be given in 2011–12. This course offers an optional writing requirement which if completed will satisfy the concentration writing requirement.

Prerequisite: Economics 1010a or 1011a, Mathematics 20.

Economics 1070. Normative Economics

Catalog Number: 5972

Jerry R. Green

Half course (fall term). M., W., F., at 10. EXAM GROUP: 3

Voting theory, social choice, mechanism design, bargaining theory, cooperative game theory, equitable cost allocation, fair division, welfare analysis of taxation, public expenditures and risk bearing. This course offers a rigorous approach to normative economics. Students should have an interest and ability to work with abstract mathematics and axiomatic reasoning.

Note: A graduate level of this course is being offered at the same time, therefore graduate students will be present in the class.

Prerequisite: Mathematical sophistication and interests in abstract reasoning is required, but there are no specific prerequisites.

Economics 1776. Religion and the Rise of Capitalism

Catalog Number: 30419

Benjamin M. Friedman

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

Examines the influence of religious thinking on the intellectual revolution, associated with Adam Smith and others, that created economics as we know it as an independent discipline; also examines how the lasting resonances from these early religious influences continue to shape discussion of economic issues and debates about economic policy down to our own day.

Note: This course, when taken for a letter grade, meets the General Education requirement for Culture and Belief or the Core area requirement for Historical Study A. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past.

Prerequisite: Social Analysis 10.

Primarily for Graduates

Economics 2001. Research in Behavior in Games and Markets

Catalog Number: 8732

David I. Laibson 1241, Edward L. Glaeser 3219, Sendhil Mullainathan 5139, Alvin E. Roth 564 (on leave spring term), and Tomasz Strzalecki 6294



Full course (indivisible). Fall: W., 11:30–1; Spring: Tu., 2:30–4. EXAM GROUP: 16, 17
Presents current research in the Behavioral and Experimental Economics field.

***Economics 2010a. Economic Theory**

Catalog Number: 8656

Edward L. Glaeser and Drew Fudenberg

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

EXAM GROUP: 12, 13

Covers the theory of individual and group behavior. Topics include consumer theory, producer theory, behavior under uncertainty, externalities, monopolistic distortions, game theory, oligopolistic behavior, and asymmetric information.

Note: Enrollment is limited to students in the Economics and Business Economics PhD programs.

Prerequisite: Mathematics 116 or equivalent; can be taken concurrently.

Economics 2010b. Economic Theory

Catalog Number: 8659

Oliver S. Hart and Jerry R. Green

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

EXAM GROUP: 12, 13

Topics include social choice theory, signaling, mechanism design, general equilibrium, the core, externalities, and public goods.

Prerequisite: Economics 2010a.

Economics 2010c. Economic Theory

Catalog Number: 4431

David I. Laibson and Robert J. Barro

Half course (fall term). Tu., Th., 1-2:30, and a 90-minute weekly section to be arranged. EXAM GROUP: 15, 16

Topics include discrete-time and continuous-time dynamic programming, consumption, investment, economic growth, and business cycles.

Note: Enrollment is strictly limited to PhD students in the Economics Department, Business Economics program, and PEG program. Qualified Harvard undergraduates may also enroll. No other students may take the course for credit or as auditors.

Economics 2010d. Economic Theory

Catalog Number: 2041

Benjamin M. Friedman and Emmanuel Farhi

Half course (spring term). M., W., 8:30-10, and a 90-minute section to be arranged. EXAM GROUP: 1, 2

A basic course in graduate macroeconomics, including models of business fluctuations, analyses of monetary and fiscal policy, and introduction to open economy macroeconomic issues.

Note: Enrollment is strictly limited to PhD students in the Economics Department, Business Economics program, and PEG program. Qualified Harvard undergraduates may also enroll. No other students may take the course for credit or as auditors.

Prerequisite: Mathematics 116 or the equivalent; can be taken concurrently.



***Economics 2020a. Microeconomic Theory I**

Catalog Number: 0339 Enrollment: Limited to 102.

Christopher N. Avery (Kennedy School) and Elon Kohlberg (Business School)

Half course (fall term). M., W., 8:30-10 and a weekly section to be arranged. EXAM GROUP: 1, 2

A comprehensive course in economic theory designed for doctoral students in all parts of the University. Consumption, production, uncertainty, markets, general equilibrium. Applications to policy analysis and business decisions. Emphasizes the use of economic theory in practical research.

Note: Offered jointly with the Kennedy School as API-111 and with the Business School as 4010.

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

Christopher N. Avery (Kennedy School) and Julian Jamison

Half course (spring term). M., W., 8:30-10 and a weekly section to be arranged. EXAM GROUP: 1, 2

A continuation of Economics 2020a. Topics include game theory, economics of information, incentive theory, and welfare economics.

Note: Offered jointly with the Kennedy School as API-112 and with the Business School as 4011.

Prerequisite: Economics 2010a or 2020a.

Economics 2030. Psychology and Economics

Catalog Number: 3828

Andrei Shleifer, David I. Laibson, and Sendhil Mullainathan

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

Explores economic and psychological models of human behavior. Topics include bounded rationality, intertemporal choice, decision making under uncertainty, inference, choice heuristics, and social preferences. Economic applications include asset pricing, corporate finance, macroeconomics, labor, development, and industrial organization.

Note: Primarily for graduate students but open to undergraduates.

Prerequisite: Knowledge of multivariable calculus and econometrics.

[Economics 2040. Experimental Economics]

Catalog Number: 8485 Enrollment: Limited to 48.

Alvin E. Roth (FAS, Business School)

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

An introduction to experimental economics, and some of the major subject areas that have been addressed by laboratory experiments. We concentrate on series of experiments, to see how experiments build on one another.

Note: Expected to be given in 2011–12. Open to undergraduates with permission of the instructor. Offered jointly with the Business School as 4160.



Economics 2041. Field Experiments

Catalog Number: 2427

Nava Ashraf (Business School)

Full course (spring term). Hours to be arranged.

Students will design and run field experiments as a research methodology. Students will refine their own experimental designs and be able to run them by the end of the course, leading to an academic paper.

Note: Offered jointly with the Business School as 4430. Enrollment is limited to Doctoral students intending to run a field experiment in the near future.

Economics 2052. Game Theory I: Equilibrium Theory

Catalog Number: 3690

Drew Fudenberg

Half course (spring term). M., 4-7 pm. EXAM GROUP: 9

Equilibrium analysis and its applications. Topics vary, but typically include equilibrium refinements (sequential equilibrium), the equilibria of various classes of games (repeated games, auctions, signaling games) and the definition and application of common knowledge.

Prerequisite: Economics 2010a or permission of the instructor.

Economics 2054. Social Choice and Welfare Economics

Catalog Number: 1118

Amartya Sen and Anthony Barnes Atkinson (University of Oxford)

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

A basic course in social choice theory and its philosophical foundations. An examination of “impossibility” results, collective rationality, domain restrictions, interpersonal comparability, and the role of rights and liberties.

Economics 2056a. Market Design

Catalog Number: 3634

Alvin E. Roth and Peter A. Coles (Business School)

Half course (fall term). F., 9-12. EXAM GROUP: 2, 3, 4

Deals with the theory and practice of market design, with prominent examples drawn from auctions, labor markets, school choice, and kidney exchange.

Note: Open to undergraduates with permission of the instructors. Offered jointly with the Business School as 4150.

Prerequisite: Game theory.

Economics 2056b. Topics in Market Design

Catalog Number: 0402

Gregory M. Lewis

Half course (spring term). M., W., 1-2:30. EXAM GROUP: 6, 7

Studies topics in market design, focusing on auctions, auction-based marketplaces and platform markets. Covers methods and results from theory, empirical work, econometrics and experiments, highlighting practical issues in real-world design.



[Economics 2057. Rationality and Choice]

Catalog Number: 3755 Enrollment: Limited to 25.

Amartya Sen

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

The course involves critical examination of alternative approaches to rationality, which is a central concept in economics, politics and the other social sciences, moral and political philosophy, and legal theory, including law and economics.

Note: Expected to be given in 2011–12.

[Economics 2058. Networks and Social Capital]

Catalog Number: 2872

Instructor to be determined

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

Provides a rigorous theoretical introduction into network models. Discusses the emerging empirical literature on economic and social networks. Topics include the role of networks in technological progress, buyer-supplier networks, and social capital.

Note: Expected to be given in 2011–12.

Economics 2059. Decision Theory

Catalog Number: 3825

Tomasz Strzalecki

Half course (fall term). M., W., 10–11:30. EXAM GROUP: 3, 4

The course focuses on classical models of choice in abstract settings, as well as uncertain and intertemporal environments. We will also study recent models that incorporate insights from psychology, such as temptation and self-control.

Economics 2060. Contract Theory

Catalog Number: 1404

Philippe Aghion

Half course (fall term). M., W., 11:30–1. EXAM GROUP: 4, 5

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 2070. Normative Economics**

Catalog Number: 5647

Jerry R. Green

Half course (fall term). M., W., F., at 10. EXAM GROUP: 3

This course offers a rigorous approach to normative economics. Voting, bargaining, cooperative game theory, social choice, mechanism design, equitable cost allocation, fair division, welfare analysis of taxation, and more. Students should have an interest and ability to work with abstract mathematics and axiomatic reasoning.

[Economics 2080. Economics and Politics: The Foundations of Economics in Political Theory]

Catalog Number: 6576



Benjamin M. Friedman

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

Offers graduate students in relevant disciplines the chance to study the historical origins of central ideas in modern economics and to discuss their philosophical character.

Note: Expected to be given in 2011–12.

Prerequisite: A basic knowledge of economics is assumed.

[Economics 2085. Economics of Inequality and Poverty]

Catalog Number: 16767 Enrollment: Limited to 25.

Amartya Sen

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

A general course on the evaluation and axiomatic measurement of inequality and poverty, and on the analysis of contemporary economic problems in that light.

Note: Expected to be given in 2011–12.

[*Economics 2087r \(formerly *Economics 2087hf\). Advanced Topics in Theory - \(New Course\)](#)

Catalog Number: 32489

Drew Fudenberg

Full course (indivisible). F., 3–5.

The class will read and discuss current research in economics with a focus on game theory and decision theory. Students will be expected to make a verbal presentation.

Prerequisite: Economics 2010a or permission of the instructor.

Econometrics and Quantitative Methods

For Undergraduates and Graduates

[Economics 1123. Introduction to Econometrics](#)

Catalog Number: 0813

James H. Stock (fall term) and Eric Chaney (spring term)

Half course (fall term; repeated spring term). Fall: Tu., Th., 11:30-1; Spring: Tu., Th., 1-2:30, and a weekly section to be arranged. EXAM GROUP: Fall: 13, 14; Spring: 15, 16

An introduction to multiple regression techniques with focus on economic applications.

Discusses extensions to discrete response, panel data, and time series models, as well as issues such as omitted variables, missing data, sample selection, randomized and quasi-experiments, and instrumental variables. Aims to provide students with an understanding of and ability to apply econometric and statistical methods using computer packages.

Note: Students may take either Economics 1123 or Statistics 139 for credit. Statistics 139 will not count as econometrics requirement. Also, Economics 1123 may not be taken for credit if taken after Economics 1126, but credit will be given for both courses if Economics 1123 is taken first. This course, when taken for a letter grade, meets the General Education requirement for Empirical and Mathematical Reasoning or Core requirement for Quantitative Reasoning.

Prerequisite: Statistics 100.

**Economics 1126. Quantitative Methods in Economics**

Catalog Number: 4076

Gary Chamberlain

Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

Topics include elements of statistical decision theory and related experimental evidence; some game theory and related experimental evidence; maximum likelihood; logit, normal, probit, and ordered probit regression models; panel data models with random effects; omitted variable bias and random assignment; incidental parameters and conditional likelihood; demand and supply.

Note: Economics 1123 may not be taken for credit if taken after Economics 1126, but credit will be given for both courses if Economics 1123 is taken first. This course, when taken for a letter grade, meets the Core requirement for Quantitative Reasoning.

Prerequisite: Statistics 100 or preferably 110; Mathematics 20.

Economics 1127. Statistical Methods for Evaluating Causal Effects

Catalog Number: 9967

Donald B. Rubin

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

Statistical methods discussed for inferring causal effects from data from randomized experiments or observational studies. Students will develop expertise to assess the credibility of causal claims and the ability to apply the relevant statistical methods for causal analyses. Examples will come from many disciplines: economics, education, other social sciences, epidemiology, and biomedical science. Evaluations of job training programs, educational voucher schemes, changes in laws such as minimum wage laws, medical treatments, smoking, military service.

Prerequisite: Statistics 100 or preferably Statistics 111; Mathematics 20.

Cross-listed Courses**Statistics 100. Introduction to Quantitative Methods for the Social Sciences and Humanities****Statistics 104. Introduction to Quantitative Methods for Economics****Statistics 110. Introduction to Probability*****Primarily for Graduates*****Economics 2110. Introductory Probability and Statistics for Economists**

Catalog Number: 7213

Rustam Ibragimov

Half course (fall term). M., W., 10–11:30. EXAM GROUP: 3, 4

Introduction to probability and statistics. Emphasis on general methods applicable to both econometrics and economic theory. Topics include probability spaces, random variables, limit laws, estimation, hypothesis testing, and Bayesian methods.

Prerequisite: Statistics (Stat 100), Linear Algebra and Calculus (Math 21a and 21b), and Real Analysis (Math 112).

Economics 2120. Introduction to Applied Econometrics

Catalog Number: 2352

Dale W. Jorgenson (fall term) and Gary Chamberlain (spring term)



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

Introduction to methods employed in applied econometrics, including linear regression, instrumental variables, panel data techniques, generalized method of moments, and maximum likelihood. Includes detailed discussion of papers in applied econometrics and computer exercises using standard econometric packages.

Note: Enrollment limited to PhD candidates in economics, business economics, health policy, public policy, and political economy and government (PEG). Offered jointly with the Kennedy School as API-217.

Prerequisite: Economics 2110 or API-209 or the equivalent.

Economics 2140. Econometric Methods

Catalog Number: 7210

Guido W. Imbens

Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

Econometric methods for cross-section and panel data. Topics include generalized method of moments, empirical likelihood, instrumental variables, bootstrapping, clustering, treatment effects, selection bias, difference-in-differences, qualitative choice, quantile regression, nonparametric methods, and semiparametric methods.

Prerequisite: Economics 2120 or equivalent.

Economics 2142. Time Series Analysis

Catalog Number: 4414

James H. Stock and Rustam Ibragimov

Half course (fall term). Tu., Th., 8:30–10. EXAM GROUP: 10, 11

A survey of modern time series econometrics. Topics include univariate models, vector autoregressions, linear and nonlinear filtering, frequency domain methods, unit roots, structural breaks, empirical process theory asymptotics, forecasting, and applications to macroeconomics and finance.

Economics 2144. Advanced Applied Econometrics

Catalog Number: 7686

Ariel Pakes

Half course (spring term). M., W., 11:30–1. EXAM GROUP: 4, 5

An introduction to the theory and application of recently developed econometric techniques used in advanced applied work. Simulation techniques, estimation subject to inequality restrictions, as well as semiparametric and nonparametric tools will be studied in a variety of empirical contexts.

[Economics 2146. Topics in Financial Econometrics]

Catalog Number: 8715

Rustam Ibragimov

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

A seminar course in financial econometrics. The topics covered include testing stylized facts in finance, robust inference, testing return predictability and market efficiency, inference in consumption-based asset pricing models and applications to real data.

Note: Expected to be given in 2011–12.

Prerequisite: Economics 2120 or equivalent.



[Economics 2149. Computational Economics]

Catalog Number: 7236

Ulrich Doraszelski

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

Graduate introduction to computational approaches for solving economic models. Formulate economic problems in computationally tractable form and use techniques from numerical analysis to solve them. Examples of computational techniques in the current economics literature will be examined.

Note: Expected to be given in 2011–12.

Economics 2162. Research in Econometrics

Catalog Number: 2372

Guido W. Imbens 2671 (on leave spring term), Alberto Abadie (Kennedy School) 5277, Gary Chamberlain 1745, Rustam Ibragimov 5329, Dale W. Jorgenson 2000, and James H. Stock 1783
Full course (indivisible). M., at 12:30.

Participants discuss recent research in econometrics and present their own work in progress. Open to doctoral students in economics.

Cross-listed Courses

Economic History; Development Economics

For Undergraduates and Graduates

Economics 1339. Generating Wealth of Nations - (New Course)

Catalog Number: 99118

Jeffrey Borland

Half course (fall term). M., W., F., at 1. EXAM GROUP: 6

Overview of the development of economic activity in the world, primarily in the past 200 years. Topics include: Patterns of economic development; The Malthusian economy; European colonial expansion; The Agricultural Revolution and Industrial Revolution; Rise of the American economy and settler economies; New ways of producing; The Great Depression; World Wars and economy; Eras of globalization; Japan and the Asian miracle; State planning and market economies; The Great Divergence; Costs of economic development.

Note: A research paper is required. This course meets the concentration writing requirement.

Prerequisite: Social Analysis 10

Economics 1340. World Economic History

Catalog Number: 4025 Enrollment: Limited to 80.

James Robinson

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

This course provides an overview of world economic history since the Neolithic revolution. It analyzes the main theories which have been proposed to explain these facts. Questions discussed are: why did the Neolithic revolution happen earlier in some parts of the world than others? Why did some societies which were initially very successful economically, subsequently decline? What caused the British industrial revolution? Why did the US become the most successful



economy in the 19th century?

Prerequisite: Social Analysis 10 or Economics 10.

[Economics 1341. The Historical Origins of Middle Eastern Development]

Catalog Number: 9328

Eric Chaney

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

Middle Eastern countries enjoyed world economic leadership during the Middle Ages, and continue to play an important role in the world economy. This course will explore the historical development of Middle Eastern economies. Topics include the effects of colonialism, natural resource endowments and religion on economic growth. The course will emphasize how these and other historical factors continue to influence development prospects in the region today.

Note: Expected to be given in 2011–12. A research paper is required. This course meets the concentration writing requirement.

Prerequisite: Social Analysis 10.

[Economics 1356. Economics of Work and Family]

Catalog Number: 17685

Claudia Goldin

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

How are the most personal choices and life transitions decided, including when and whom to marry, how many children to have, how much education to obtain, and which careers or jobs to pursue? Much will be explored in terms of change over time, particularly concerning the economic emergence of women as well as the role of the state. Readings draw on economic theory, empirical analyses, and historical works and literature from the 19th century to the present.

Note: Expected to be given in 2011–12. A research paper is required for this course. This course cannot be taken Pass/Fail and cannot be taken by anyone who has taken Economics 980b. This course, when taken for a letter grade, meets the General Education requirement for United States in the World or the Core area requirement for Social Analysis."

Prerequisite: Economics 1010a or Economics 1011a or equivalent, and Economics 1123 or Economics 1126 or equivalent or permission of instructor.

Economics 1357. Historical Perspectives on Economic Ascendancy

Catalog Number: 7554

Richard A. Hornbeck

Half course (fall term). M., W., 2–3:30. EXAM GROUP: 7, 8

An introduction to economic history broadly construed, focusing on economic growth and development. Covers topics such as the industrial revolution, institutions and property rights, financial markets and regulation, the 1930s Great Depression, migration and labor markets, inequality, health, and environmental change. Emphasis on students learning to generate and implement ideas for new research.

Note: Concentrators may not take pass/fail. Short research proposals are required, with an option to expand one into a longer paper that satisfies the concentration writing requirement.

Prerequisite: Social Analysis 10 or permission of the instructor.



Economics 1370. Media, Democracy and Economics

Catalog Number: 45985 Enrollment: Limited to 30.

Philippe Aghion and Benedicte Berner

Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

This course will analyze the role of media in political and economic development. Topics covered are the history of the relationship between media and the state, media and democracy today, laws governing the media and its practice, legal and political pressures on the media, media as an economic object, ownership of media and its effects, media coverage on elections and in developing countries, competition and truth in the market for news, the current mainstream media, and journalistic ethics.

Prerequisite: Social Analysis 10.

Economics 1376hf (formerly Economics 1376). Closing the Global Gender Gap - (New Course)

Catalog Number: 80007

Rohini Pande (Kennedy School) and Iris Bohnet (Kennedy School)

Half course (throughout the year). Hours to be arranged.

Building on insights from Behavioral Decision Making and Development Economics, the course provides a framework for understanding to what degree public policy and management can close these gender gaps. Using program evaluation techniques, students learn how to combine analysis and data to design and test specific interventions. The alternative format maximizes student learning, interaction with faculty and guest experts, and opportunities to share insights with decision makers in the field.

Note: Jointly offered with the Kennedy School as PED-317. The course is co-taught and conceived as a year-long course with a period of intense training and interaction in January. Course satisfies the PPOL public management field requirement for HKS Ph.D students. Open to Economics Concentrators who satisfy the prerequisites.

Prerequisite: Advanced Statistics/Econometrics such as API-202 or API-210 or permission of the instructor.

[*Economics 1386. Health, Education, and Development]

Catalog Number: 6436 Enrollment: Limited to 20.

Erica M. Field

Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

Advanced course addresses health and education issues in developing countries from the standpoint of economics, with a focus on modeling techniques and econometric methods. General topics include demographic transition, household models of production, and the role of health and educational inputs. Specific topics include: the return to education in developing countries, structural problems in delivery, education finance, health inequality, technology adoption and behavior, AIDS, and the impact of disease.

Note: Expected to be given in 2011–12. A research paper is required. Concentrators may not take pass/fail.

Prerequisite: Economics 1010a (or 1011a) and 1123 (or 1126).

Economics 1389. Economics of Global Health

Catalog Number: 1900



Erica M. Field and Amitabh Chandra (Kennedy School)

Half course (spring term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16

This course examines health issues in developing countries from the standpoint of applied microeconomic research. Specific topics include: identifying the effect of health on growth and development and identifying the causal relationships between income, poverty, and health. We will discuss structural problems in delivery and provider quality, the challenges of healthcare financing and health insurance expansions, and the tension between adopting "high-tech" care while delivering basic care to others.

Note: Offered jointly with the Kennedy School as SUP-318.

Prerequisite: Economics 1010a (or 1011a) and 1123 (or 1126).

Economics 1393. Poverty and Development

Catalog Number: 6516

Nathan J. Nunn

Half course (spring term). M., W., 1–2:30; F., at 10; F., at 11. EXAM GROUP: 6, 7

Studies the relationship between economic growth, poverty, and income distribution. Discusses how globalization affects poverty and inequality. Studies the main theories of economic growth and the main potential sources of economic development, from physical capital accumulation, to education, to technology, to the role of government. Discusses various global issues such as public global health (e.g. the impact of malaria and AIDS on Africa), corruption and institutions, natural resources, the environment, international donor institutions, and population growth.

Prerequisite: Economics 1010a (or 1011a) and 1010b (or 1011b).

Cross-listed Courses

Government 1197. The Political Economy of Africa

Primarily for Graduates

Economics 2325. Comparative Historical Economic Development

Catalog Number: 8510

Nathan J. Nunn

Half course (fall term). M., W., 2:30–4. EXAM GROUP: 7, 8

The course examines the historical origins of differences in the economic and social development of societies. Participants discuss recent research in the field and present their own work in progress.

Note: The course is primarily, but not exclusively, for doctoral students who have passed their oral examinations.

Economics 2327. Economic Development: Theory, Policy, and Evidence

Catalog Number: 8092

Dani Rodrik (Kennedy School) and Rema N. Hanna (Kennedy School)

Half course (spring term). M., W., 10:10-11:30, and a weekly section, F., 1:10-2:30 and/or 2:40-4:00.

Provides a graduate-level overview of the theory of and evidence on economic development from a policy-oriented perspective. Aim is to allow students to analyze policy debates



surrounding development from a broad and rigorous analytical base.

Note: Offered jointly with the Kennedy School as PED-101.

[Economics 2328. The Emergence of Modern Economic Growth: A Comparative and Historical Analysis]

Catalog Number: 9475

James Robinson

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

Overview and analysis of comparative economic development during the last half millennia. Examines the emergence of modern economic growth in Europe after 1500, and the forces that led to the great divergence in prosperity in the 19th century. Also considered: colonialism, communism, fascism, and revolution.

Note: Expected to be given in 2011–12.

Economics 2330. History and Human Capital

Catalog Number: 2588

Claudia Goldin and Lawrence F. Katz

Half course (spring term). M., W., 10–11:30. EXAM GROUP: 3, 4

Explores a range of subjects concerning human capital, historically and comparatively. Topics include fertility, mortality, health, immigration, women's work, child labor, retirement, education, inequality, slavery, unionization, and governmental regulation of labor, all within the broader context of economic history.

Note: Satisfies the graduate distribution requirement. Open to undergraduates on a limited basis with permission of instructor.

[Economics 2333. Historical Perspectives on Current Economic Issues]

Catalog Number: 6800

Richard A. Hornbeck

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

Comparative economic history emphasizing sources of economic growth and development. Topics include technological change and industrialization, institutions, the Great Depression and financial regulation, migration and adjustment to economic shocks, public infrastructure, labor markets and wage inequality, and health. Each topic is motivated by a current concern and develops methods for historical analysis to inform modern economic questions.

Note: Expected to be given in 2011–12. Satisfies the graduate distribution requirement. Open to undergraduates on a limited basis with permission of instructor.

***Economics 2339. Research in Economic History**

Catalog Number: 8183

Eric Chaney 6129, Claudia Goldin 2667 (on leave fall term), and Richard A. Hornbeck 6423

Full course (indivisible). M., 4–5:30.

Participants discuss recent research in economic history and present their own work in progress.

Note: Primarily, but not exclusively, for doctoral students in economics who have passed their oral examinations. Popularly known as The History Tea.



Economics 2350. Workshop in Religion, Political Economy, and Society

Catalog Number: 0815

Rachel M. McCleary, Robert J. Barro, and Edward L. Glaeser

Half course (spring term). Th., 1–2:30.

Topics on the interplay between religion and the social sciences.

Economics 2390b. Development Economics I: Microeconomic Issues

Catalog Number: 2990

Richard A. Hornbeck and Erica M. Field

Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

Topics include agricultural issues such as peasant behavior, land tenancy, interlinked markets; credit and insurance market problems and institutions; health, nutrition, and productivity; gender bias; education; and technology adoption.

Economics 2390c. Development Economics II: Macroeconomic Issues

Catalog Number: 0388

Michael R. Kremer

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

The first part will cover macro-economic topics including aggregative and non-aggregative growth models, growth and development accounting and models of technology diffusion and choice. The second part will evaluate the role of governance/institutional design in affecting development.

Note: Offered jointly with the Kennedy School of Government as PED-319.

***Economics 2390dhf. Research in Economic Development**

Catalog Number: 1926

Sendhil Mullainathan 5139, Philippe Aghion 1263, Erica M. Field 5095, Richard A. Hornbeck 6423, Asim I. Khwaja (Kennedy School) 3994, and Michael R. Kremer 2112 (on leave fall term)

Half course (throughout the year). Fall: Tu., 11–1.

Participants discuss recent research in development economics and present their own work in progress. Open to doctoral students in economics who have passed their oral examinations.

Note: Popularly known as the Development Lunch.

[Economics 2393. The Design of Development Policy: From Research to Practice]

Catalog Number: 62879

Sendhil Mullainathan and Rohini Pande (Kennedy School)

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

Development research is fascinating in part because it has a direct impact on public policy. Yet the pathways to impact are very different, from shaping how we evaluate public and non-profit programs to setting countrywide goals. This course will take a micro-economic perspective and critically review the distinct ways in which research affects and is affected by public policy.

General topics will include: the debate over randomized evaluations, the creation and diffusion of policy innovations, the tension between micro and macro policy approaches and the role of theory. Specific areas covered will include Finance, Education and Public health and Governance.

Note: Expected to be given in 2011–12. The course will presume knowledge of an advanced



statistics course. Open to undergraduates with permission of the instructor. Jointly listed with the Kennedy School as PED-330.

Monetary and Fiscal Theory and Policy; Public Sector Economics

For Undergraduates and Graduates

Economics 1410. Public Economics: Designing Government Policy

Catalog Number: 6136

Martin Feldstein and David M. Cutler

Half course (spring term). M., W., (F.), 2:00-3:30, and a weekly section to be arranged. EXAM GROUP: 7, 8

This course analyzes what role the government should play in a market economy. It covers topics such as tax and welfare policy, unemployment insurance, environmental protection, education policy, social security, and the implications of behavioral economics for public policy. The course emphasizes recent empirical and theoretical research on policy issues and will teach students how to conduct such studies.

Note: Students should have some knowledge of basic calculus and statistics, but there is no formal mathematics prerequisite. Offered jointly with the Kennedy School as SUP-125. This course offers an optional writing requirement which if completed will satisfy the concentration writing requirement.

Prerequisite: Economics 1010a or 1011a or permission of instructor.

Economics 1420. American Economic Policy

Catalog Number: 8110

Martin Feldstein and Jeffrey B. Liebman (Kennedy School)

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

Analyzes major issues in American economic policy including taxation, Social Security, health care reform, budget policy, monetary and fiscal policy, and exchange rate management. Current economic issues and policy options discussed in detail and in the context of current academic thinking.

Note: Offered jointly with the Kennedy School as API-126. This course offers an optional writing requirement which if completed will satisfy the concentration writing requirement.

Prerequisite: Economics 1010a or 1011a, or permission of instructor.

[Economics 1425. Political Economics]

Catalog Number: 68084 Enrollment: Limited to 20.

Andrei Shleifer

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

Discusses several research areas in political economy, including the origins of the state, comparative political systems, theories of economic reform, fiscal problems in democracies, rule of law, privatization, and regulation.

Note: Expected to be given in 2011–12. A research paper is required. This course meets the concentration writing requirement.

Prerequisite: Economics 1010a or 1011a.



Economics 1430. Macroeconomics and Politics

Catalog Number: 5549

Robert J. Barro

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

Topics include the political economy of economic growth, including the roles of democracy and legal institutions; inflation, monetary policy, and fiscal policy; interplay between religion and political economy; and analyses of economic and monetary unions.

Prerequisite: Economics 1010b or 1011b, or permission of the instructor.

Economics 1432. Economics of European Integrations - (New Course)

Catalog Number: 29276

Johann Helmut Kotz

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

The aim of the course is to give students familiarity with a broad range of European policy issues: integration of markets (for goods, services, and labor), monetary union (ECB) and its consequences for fiscal policy, financial sector regulation as well as supervision. It is offered for students who would like to employ the tools they have learned in principles of economics and introductory micro and macro courses on real world cases. This implies to write and present a paper (mandatory writing requirement).

Economics 1435. Macroeconomic Policy in the Global Economy - (New Course)

Catalog Number: 73396

Emmanuel Farhi

Half course (spring term). Tu., Th., 1- 2:30. EXAM GROUP: 15, 16

Examines fiscal policy, monetary policy, exchange rate policy, and financial regulation.

Emphasizes both short-term stabilization goals and longer-term policy objectives. Considerable attention to recent policy debates surrounding the financial crisis, reform of the financial system, Euro and Europe's debt crisis, long-run US fiscal outlook, global imbalances, China's exchange rate, and Japan's lost decade. While sophisticated economic reasoning will be involved, purely mathematical technicalities will be kept to a minimum.

Prerequisite: Students taking this course should have taken an intermediate macroeconomics class (1010b or 1011b). Knowledge of univariate calculus and basic statistics will be assumed.

[Economics 1460. Economics of Health Care Policy]

Catalog Number: 4540

Joseph P. Newhouse (Kennedy School, Medical School, Public Health)

Half course (spring term). M., W., 8:30–10. EXAM GROUP: 1, 2

Policy issues related to the following: the demand for medical care services, especially as a function of insurance; the demand for insurance and issues of selection; reimbursement policies of Medicare and other payers toward health plans, hospitals, and physicians; effects of health maintenance organizations and managed care; and malpractice and tort reform. Focus on federal policy, although state and local perspectives will receive some attention.

Note: Expected to be given in 2011–12. Students may not take both Economics 1460 and Quantitative Reasoning 24: Health Economics and Policy for credit. Offered jointly with the Kennedy School as SUP-572. This course offers an optional writing requirement which if



completed will satisfy the concentration writing requirement.

Prerequisite: Economics 1010a or 1011a. A statistics course is highly desirable.

Economics 1490. Growth and Crisis in the World Economy

Catalog Number: 35497 Enrollment: Limited to 30.

Dale W. Jorgenson

Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

This course assesses the future of the tri-polar world economy - Asia, Europe, and North America. The course analyzes the resurgence of the US economic growth, the emergence of asset pricing bubbles, and the ensuing financial and economic crisis. We will discuss the sources of Asian growth miracles and the convergence and subsequent divergence of Europe and North America. What growth rate is sustainable and who will lead? What are the forces that threaten long-term prosperity?

Note: This course satisfies the Economics concentration writing requirement. Students who would like to enroll should submit the application form available on the course website.

Prerequisite: Economics 1010a (or 1011a) and 1010b (or 1011b).

Cross-listed Courses

Empirical and Mathematical Reasoning 20 (formerly Quantitative Reasoning 24). The Business and Politics of Health

Societies of the World 31. Political Economy After The Crisis

Primarily for Graduates

[Economics 2410a. Topics in Macroeconomics]

Catalog Number: 7072

Instructor to be determined

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

Investigates the effect of financial market imperfections on aggregate investment and asset prices. Topics include financial persistence and amplification mechanisms, fire sales and limits to arbitrage, leverage cycles, asset price bubbles, financial fragility and financial contagion.

Note: Expected to be given in 2011–12.

Economics 2410b. Topics in Information, Business Cycles, and Crises - (New Course)

Catalog Number: 15009

George-marios Angeletos

Half course (spring term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16

Advanced topics on macroeconomics, including: dispersed information and business cycles; rational inattention and sticky information; coordination failures and global games; herding and social learning; incomplete markets and financial frictions; asset markets and the macroeconomy; DSGE models.

Economics 2410c. Advanced Topics in Macroeconomics

Catalog Number: 1746

Alp Simsek



Half course (fall term). M., W., 11:30–1. EXAM GROUP: 4, 5

Investigates the effect of financial market imperfections on aggregate investment and asset prices. Topics include financial persistence and amplification mechanisms, fire sales and limits to arbitrage, leverage cycles, asset price bubbles, financial fragility and financial contagion.

Economics 2412a. Political Economics - (New Course)

Catalog Number: 47596

Alberto F. Alesina

Half course (fall term). W., 4–6. EXAM GROUP: 9

Discusses several research areas in political economy, including the origins of the state, comparative political systems, theories of economic reform, fiscal problems in democracies, rule of law, privatization, regulation, and elections and the economy.

Economics 2412b. Law, Economics, and Politics - (New Course)

Catalog Number: 62703

Andrei Shleifer

Half course (spring term). W., 2–4. EXAM GROUP: 7, 8

The course will discuss a range of topics covering political economy and law and economics. The topics will include: determinants of economic growth, social capital, legal systems and traditions, regulation, courts, public and private ownership, and economic transition.

Economics 2412c. Introduction to Formal Political Economy - (New Course)

Catalog Number: 59539

Attila Ambrus

Half course (spring term). Tu., 3:30–7 p.m.

This class tries to familiarize students with the basics in formal political economy, and give a sense of the research frontier. Topics include models of collective choice, information aggregation in elections, legislative decision-making, and lobbying.

***Economics 2420hf. Research in Macroeconomics**

Catalog Number: 5946

Alberto F. Alesina 2074, Philippe Aghion 1263, Robert J. Barro 1612, Emmanuel Farhi 5715, Benjamin M. Friedman 3787, David I. Laibson 1241, and N. Gregory Mankiw 1118

Half course (throughout the year). Tu., 11:30–1.

Participants discuss recent research in macroeconomics and present their own work in progress. Open to doctoral students in economics who have passed their oral examinations.

Note: Popularly known as the Macro Lunch.

Economics 2421. Reading Course in Monetary and Fiscal Policy

Catalog Number: 97507

Benjamin M. Friedman and N. Gregory Mankiw

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

A reading course that allows students to discuss and evaluate recent research in the analysis of monetary and fiscal policies. Students will be expected to participate in formally presenting, and critiquing, unpublished or newly published papers.



Note: Students taking the course for credit will also be expected to undertake research papers of their own.

Economics 2450a. Public Economics and Fiscal Policy I

Catalog Number: 1339

Raj Chetty

Half course (fall term). M., W., 10–11:30, (F.), 3–4:30. EXAM GROUP: 3, 4, 8, 9

This course covers basic issues in the optimal design of tax and social insurance policies, with emphasis on combining theoretical models with empirical evidence. Topics include efficiency costs and incidence of taxation, income taxation, transfer and welfare programs, public goods and externalities, optimal social insurance, and welfare analysis in behavioral models.

Prerequisite: Economics 2010a and 2010b or Economics 2020a and 2020b.

Economics 2450b. Public Economics and Fiscal Policy II

Catalog Number: 6478

Martin Feldstein and Edward L. Glaeser

Half course (spring term). M., W., (F.), 11:30–1. EXAM GROUP: 4, 5

This course covers theoretical and empirical applications of public economics to policy debates. Topics include education, local public finance, fiscal federalism, housing policy, corporate and international taxation, social security, and macroeconomic stabilization using fiscal policy.

Prerequisite: Economics 2010a and 2010b or Economics 2020a and 2020b. Students are strongly encouraged to take Economics 2450a before taking 2450b.

[Economics 2458. Topics in Health Economics]

Catalog Number: 1146

Instructor to be determined

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

This course covers theoretical, empirical and policy research on health insurance, hospitals, physicians and managed care plans. Emphasis is on study of patient and provider behavior, response to insurance and payment incentives, and design of optimal payment and quality reporting mechanisms.

Note: Expected to be given in 2011–12.

Prerequisite: Economics 2010a and 2010b or Economics 2020a and 2020b

Economics 2460. Health Economics Workshop

Catalog Number: 7617

Joseph P. Newhouse (Kennedy School, Medical School, Public Health), Amitabh Chandra (Kennedy School), and David M. Cutler

Half course (spring term). W., 4–6. 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.

Note: May be taken for credit only by dissertation students writing a research paper. Offered jointly with the Kennedy School as SUP-951.

Economics 2465. Health Economics

Catalog Number: 83396



David M. Cutler

Half course (spring term). Tu., Th., (F.), 2:30–4. EXAM GROUP: 7, 8, 16, 17

This course surveys topics in health economics. It touches on public sector issues, the industrial organization of health care markets, interactions between health and labor markets, and health in developing countries. Theory and empirical work are presented.

Economics 2480. Research in Public Economics and Fiscal Policy: Research Seminar

Catalog Number: 6834

Raj Chetty 6276 (on leave spring term), David M. Cutler 2954, and Martin Feldstein 1509

Full course. Tu., 1–2:30. EXAM GROUP: 15, 16

Invited speakers present theoretical and empirical research on a broad range of topics related to the design of government policy.

***Economics 2490. The Economics of National Security Seminar**

Catalog Number: 9061

Martin Feldstein

Half course (spring term). M., 6–9 p.m.

Considers a range of issues relating to national security, including bioterrorism, the market for nuclear weapons, the defense industry, the dependence on imported oil, intelligence, sanctions, etc.

Note: Speakers will be both experts with experience in this field and economists doing research on these issues. Seminar participants will be economics department faculty and selected graduate students.

International Economics

For Undergraduates and Graduates

Economics 1530. International Monetary Economics

Catalog Number: 2269

Richard N. Cooper

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

This is an intermediate level international finance and macroeconomics course that uses a mix of theoretical, empirical and policy frameworks to analyze topical problems in international finance. The topics include exchange rate determination, currency interventions, monetary policy coordination, capital flows and currency crises.

Note: May not be taken for credit with Economics 1531.

Prerequisite: Economics 1010b or 1011b.

[Economics 1531. Economics of International Financial Policy]

Catalog Number: 7018

Jeffrey A. Frankel (Kennedy School)

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

This course examines the macroeconomics of open economies. It covers models appropriate to major industrialized countries. Topics include the foreign exchange market, devaluation, and import and export elasticities; simultaneous determination of the trade balance, national income,



balance of payments, money flows, and price levels; capital flows and our increasingly integrated financial markets; monetary and fiscal policy in open economies; international macroeconomic interdependence; supply relationships and monetary policy targets; exchange rate determination; and international portfolio diversification.

Note: Expected to be given in 2011–12. Offered jointly with the Kennedy School as ITF-220. May not be taken for credit with Economics 1530.

Prerequisite: Economics 1010/1011. Knowledge of international trade theory and econometric techniques is also desirable, but not essential. Students must be very comfortable with algebra.

Economics 1535. International Trade and Investment

Catalog Number: 2557

Marc J. Melitz

Half course (fall term). M., W., 2–3:30. EXAM GROUP: 7, 8

Analyzes the causes and consequences of international trade and investment. Focuses on the interplay of economic theory and empirical descriptions of foreign trade and direct investment patterns.

Prerequisite: Economics 1010a or 1011a.

[Economics 1540. Topics in International Trade]

Catalog Number: 7470

Pol Antràs

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

Covers advanced topics in international economics with a special emphasis on an analytical approach to the recent process of globalization. Topics include the role of multinational firms in the global economy, the effect of international outsourcing on wages, and trade and industrial development.

Note: Expected to be given in 2011–12. This course offers an optional writing requirement which if completed will satisfy the concentration writing requirement.

Prerequisite: Economics 1535 and basic knowledge of calculus and econometrics.

[Economics 1542. International Trade Policy]

Catalog Number: 2613

Elhanan Helpman

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

Provides a discussion of the economic impacts of international trade policies and the political economy of trade policy formation. The course will focus on analytical methods and therefore requires knowledge of calculus.

Note: Expected to be given in 2011–12.

Prerequisite: Economics 1010a or 1011a, or permission of instructor.

[Economics 1545. International Financial and Macroeconomic Policy]

Catalog Number: 5166

Gita Gopinath

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

Advanced theoretical and empirical analysis of contemporary international macroeconomic policy issues in both industrialized and developing economies. Topics include exchange rates,



international capital flows, debt crises, growth, and policy coordination.

Note: Expected to be given in 2011–12.

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.

Note: Strongly recommended as preparation for Economics 2530b. Open to undergraduates only with permission of instructor.

Prerequisite: Economics 2010a and 2010b.

Economics 2530b. International Finance

Catalog Number: 7144

Gita Gopinath

Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

Financial aspects of growth and income determination in open economies. Topics include international business cycle, monetary and exchange rate regimes, capital flows, and current issues in international macroeconomic policy.

Prerequisite: Economics 2530a provides extremely useful background.

[Economics 2535. Advanced Topics in International Trade]

Catalog Number: 6410

Pol Antràs

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

Covers advanced theoretical and empirical topics concerning the determinants of world trade patterns.

Note: Expected to be given in 2011–12.

Prerequisite: Economics 2530a or permission of instructor.

[Economics 2537. International Trade Policy: Issues and Analysis]

Catalog Number: 1699

Dani Rodrik (Kennedy School)

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

Develops expertise with economic models used for the analysis of international trade policies.

Focuses on theoretical and empirical work relating to trade patterns, income distribution, growth, development, industrial policy, political economy, and the WTO.

Note: Expected to be given in 2011–12. Offered jointly with the Kennedy School as ITF-345.

Students are expected to make presentations and write a research paper.

Prerequisite: Graduate level microeconomics and econometrics.



***Economics 2540hf. Research in International Economics**

Catalog Number: 4008

Pol Antràs 4666 (fall term only) (on leave spring term), Gita Gopinath 5042 (spring term only), and members of the Department

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.

Note: Popularly known as the International Lunch.

Industrial Organization and Regulation; Environmental Economics

For Undergraduates and Graduates

[Economics 1625. E-Commerce and Electronic Markets]

Catalog Number: 3737

Susan Athey

Half course (fall term). Tu., Th., 1–2:30.

This course studies electronic commerce and markets, with a particular emphasis on online auctions, such as eBay, autos, and online advertising auctions. Other applications include internet search, price comparison engines, internet retail, gaming, and cloud computing. We consider the role of a variety of economic forces in these markets, including auction theory, price discrimination, reputation, and the theory of platform markets. We will also consider the central role of data, analytics, and experimentation in these industries.

Note: Expected to be given in 2011–12.

Prerequisite: Economics 1010a or 1011a; Statistics 100 or prior exposure to basic probability and statistics.

Economics 1630. Economics of Sports and Entertainment

Catalog Number: 95925 Enrollment: Limited to 80.

Stanley Engerman (University of Rochester)

Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

The markets for professional and amateur sports and entertainment are analyzed. Impacts of market organization and public policy on attendance, salaries, and profits are examined.

Note: This course offers an optional writing requirement which if completed will satisfy the concentration writing requirement.

Prerequisite: Social Analysis 10.

Economics 1640. Industrial Organization: Theory and Applications

Catalog Number: 7875 Enrollment: Limited to 30.

Julie H. Mortimer

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

Theoretical and empirical analysis of contemporary topics in industrial organization. Uses economic theory to analyze important issues facing firms, and examines the practical challenges of empirical applications of theory. Topics include horizontal relationships and mergers, vertical integration and control through contractual arrangements, price discrimination, information and search costs, innovation and intellectual property rights, and network externalities. Each topic



combines theoretical analysis with a study of actual firm behavior.

Note: Students may not take both Economics 1640 and Economics 1641 for credit.

Prerequisite: Economics 1010a or 1011a.

[Economics 1641. Industrial Organization: Theory and Practice]

Catalog Number: 9099 Enrollment: Limited to 30.

Ulrich Doraszelski

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

Theoretical and empirical analysis of contemporary topics in industrial organization. Uses economic theory to analyze important issues facing firms, and examines the practical challenges of empirical applications of theory. Topics include horizontal relationships and mergers, vertical integration and control through contractual arrangements, price discrimination, information and search costs, innovation and intellectual property rights, and network externalities. Each topic combines theoretical analysis with a study of actual firm behavior.

Note: Expected to be given in 2011–12. Students may not take both Economics 1640 and Economics 1641 for credit.

Prerequisite: Economics 1010a or 1011a.

Economics 1642. Advanced Industrial Organization

Catalog Number: 9613

Gregory M. Lewis

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

Theory and modern empirical techniques in industrial organization. Topics may include static analysis and estimation of market equilibrium; dynamic models of entry and investment; price discrimination, collusion, mergers and vertical control, with applications to antitrust policy; and issues in auctions and market design.

Note: This is a hands-on course, and students will be expected to use Stata or other statistical software to perform data analysis.

Prerequisite: Economics 1010a or 1011a; Economics 1123 or 1126.

Economics 1661. Fundamentals of Environmental Economics and Policy

Catalog Number: 2115

Robert N. Stavins (Kennedy School)

Half course (spring term). M., W., 1–2:30 and an optional review section F., 1–2:30. EXAM GROUP: 6, 7

Provides a survey, from the perspective of economics, of environmental and natural resource policy. Combines lectures on conceptual and methodological topics with examinations of public policy issues. Topics include principles of environmental and resource economics, nonrenewable resources (minerals and energy), renewable resources (fisheries), air pollution (stationary and mobile sources, acid rain, and global climate change), and sustainable development and political aspects of environmental policy.

Note: Offered jointly with the Kennedy School as ENR-201. This course offers an optional writing requirement which if completed will satisfy the concentration writing requirement.

Prerequisite: Social Analysis 10 or permission of instructor.



Economics 1687. Economics of the Environment, Natural Resources, and Climate Change - (New Course)

Catalog Number: 44432

Martin L. Weitzman

Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

Survey of foundations and applications of the modern theory of environmental and natural-resource economics. What are the basic models and what are they suggesting about policy? Externalities, public goods, common property, strategies for controlling pollution. Dynamics of renewable resources (fisheries, forestry) and dynamics of non-renewable resources (minerals like oil). Discounting, uncertainty, cost-benefit analysis, investment criteria for environmental projects, green accounting, sustainability. Basic economic analysis of climate change as prototype example.

Note: Students from other concentrations are welcome to take this course for credit.

Prerequisite: Economics 1010a.

Primarily for Graduates

Economics 2610. Industrial Organization I

Catalog Number: 3766

Ariel Pakes

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

Applied work in industrial organization. Static analysis (theory, estimation): demand systems, cost functions, and game theoretic concepts of equilibrium and their application. Dynamic analysis (theory, computation, estimation): single agent problems, dynamic games and their application.

Economics 2611. Industrial Organization II

Catalog Number: 2302

Julie H. Mortimer

Half course (spring term). M., W., 10–11:30. EXAM GROUP: 3, 4

Application of industrial organization to problems of public policy. Applied analysis of antitrust policy, network industries, vertical relationships, auctions, and other topics depending on interest.

Note: Students are urged to take Economics 2610 before Economics 2611.

***Economics 2640hf. Research in Industrial Economics**

Catalog Number: 5981

Ariel Pakes 1774, Susan Athey 5334, Gregory M. Lewis 5868, and Julie H. Mortimer 3993

Half course (throughout the year). Tu., at 12.

Participants present their own research in progress in an informal setting. Open to doctoral students in economics who have passed their general examinations and are in the early stages of their dissertations.

[Economics 2665. The Economics of Organizations Workshop]

Catalog Number: 9819

Oliver S. Hart



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

Speakers present current research in the field in a seminar setting.

Note: Expected to be given in 2011–12. Offered jointly with the Business School as 4230.

[Economics 2670. Organizational Economics]

Catalog Number: 6913

Instructor to be determined

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

Theoretical and empirical work on organizations. Topics include agency problems inside organizations, boundaries of the firm, relational contracting, authority, hierarchies, delegation, decentralization, and nonstandard organizational arrangements (including joint ventures, venture capital, and public ownership).

Note: Expected to be given in 2011–12. Offered jointly with the Business School as 4180.

Prerequisite: Economics 2020.

Economics 2680. Environmental and Natural Resource Economics

Catalog Number: 6529

Martin L. Weitzman

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

Basic theory and models. Externalities, common property, public goods, pollution control, renewable and non-renewable resources, discounting, uncertainty, cost-benefit analysis, green accounting, sustainability, climate change.

Note: Students welcome from other departments and programs. There is a choice of a research paper or final exam. Will not be offered in 2011-12.

Prerequisite: Graduate price theory at level of Economics 2010 or 2020.

***Economics 2690hf. Environmental Economics and Policy Seminar**

Catalog Number: 4324

Robert N. Stavins (Kennedy School) and Martin L. Weitzman

Half course (throughout the year). W., 4–5:30. EXAM GROUP: 9

Selected topics in environmental and resource economics. Emphasizes theoretical models, quantitative empirical analysis, and public policy applications. Includes invited outside speakers.

Note: Primarily for graduate students in economics or related fields with environmental interests. Offered jointly with the Kennedy School as API-905Y.

Prerequisite: Graduate-level course in microeconomic theory.

Financial Economics

For Undergraduates and Graduates

Economics 1723. Capital Markets

Catalog Number: 1917

Owen A. Lamont (Director of Research at DKR Fusion Management)

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

An introduction to the economic analysis of investment decisions and financial markets.



Concepts include time discounting, market efficiency, risk, and arbitrage. These concepts are applied to fixed-income securities, equities, and derivative securities.

Prerequisite: Statistics 100 and Economics 1010a or 1011a.

Economics 1745. Corporate Finance

Catalog Number: 5889

Elias Papaioannou

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

GROUP: 15, 16

Introduction to corporate finance, including capital budgeting, capital structure of firms, dividend policy, corporate governance, and takeovers.

Prerequisite: Economics 1010a or 1011a, Mathematics 20, and Statistics 100.

Economics 1759. The Financial Crisis

Catalog Number: 90007

Jeremy C. Stein

Half course (spring term). M., W., 1-2:30; M., at 6; M., at 7 p.m. EXAM GROUP: 6, 7

This course provides a detailed examination of events in financial markets during the crisis period that began in August of 2007. Topics include: the housing bubble and mortgage markets, the role of the banks and the shadow banking system, policy responses by the Treasury and the Federal Reserve, and longer-run regulatory reform. The conceptual approach to these topics will draw heavily on recent research in financial economics.

Prerequisite: Economics 1723 or 1745.

Primarily For Graduates

Economics 2723. Asset Pricing I

Catalog Number: 2847

John Y. Campbell

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

An introduction to financial economics emphasizing discrete-time models and empirical applications. Reviews basic asset pricing theory. Discusses empirical topics including predictability of stock and bond returns, the equity premium puzzle, and intertemporal equilibrium models.

Note: Offered jointly with the Business School as 4209.

Prerequisite: Economics 2010a or 2020a, or permission of instructor.

Economics 2725. Corporate Finance

Catalog Number: 1427

Efraim Benmelech

Half course (spring term). Tu., Th., 10-11:30. EXAM GROUP: 12, 13

Theory and empirical evidence on capital structure, dividends, investment policy, and managerial incentives. Topics include banking, corporate governance, and mergers.

Note: Offered jointly with the Business School as 4223.

Prerequisite: Economics 2060.



[Economics 2726. Theoretical and Empirical Perspective on Entrepreneurship: Economics and Finance]

Catalog Number: 4451

Joshua Lerner (Business School) and William Robert Kerr (Business School)

Half course (spring term). Th., 2:30–5:30. EXAM GROUP: 16, 17, 18

Entrepreneurship is a complex phenomenon that has attracted little academic attention. This course explores the emerging work in this area. Students taking the course for credit will be expected to complete two referee reports and a paper.

Note: Expected to be given in 2011–12. Offered jointly with the Business School as 4350.

Economics 2727. Empirical Methods in Corporate Finance

Catalog Number: 9055

Paul Gompers (Business School), Robin Marc Greenwood (Business School), and Joshua Lerner (Business School)

Half course (spring term). Th., 2:30–5:30. EXAM GROUP: 16, 17, 18

Examines empirical research in corporate finance. Covers empirical research methodology, financial institutions, and financial policy. Major emphasis is on how to do well-executed and persuasive research in corporate finance.

Note: Structured to minimize overlap with Economics 2725. Seminar format; students write referee reports and a research paper. Offered jointly with the Business School as 4220.

Economics 2728. Behavioral Finance

Catalog Number: 8633

Jeremy C. Stein

Half course (spring term). M., W., 10–11:30. EXAM GROUP: 3, 4

Deals with theoretical and empirical approaches to the study of financial markets using psychological or behavioral ideas. Topics include limited arbitrage, predictability of security returns, and trading volume.

***Economics 2770hf. Research in Financial Economics**

Catalog Number: 1379

Efraim Benmelech 5419, John Y. Campbell 1230, and Jeremy C. Stein 3752

Half course (throughout the year). F., 12–1:30.

Participants discuss recent research in financial economics and present their own work in progress. Open to doctoral students in economics who have passed their oral examinations.

Note: Offered jointly with the Business School as 4601.

Cross-Listed Courses

Labor, Human Resources, and Income Distribution; Urban Economics

For Undergraduates and Graduates

Economics 1814. Small Differences that Matter: Public Policy Comparisons between Canada and the United States - (New Course)

Catalog Number: 11181



Philip Oreopoulos

Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

This course explores the impacts from 'small differences' in policies between Canada and the United States. Topics include social insurance programs, regulation, taxation, unionization, education, and immigration. Each comparison involves first describing stylized facts and statistics for both countries, and second critically assessing recent empirical research. The course is designed to engage students in the debate over tradeoffs from key policy options, and to expose them to approaches to program evaluation for generating convincing conclusions.

[Economics 1815. Social Problems of the American Economy]

Catalog Number: 3130

Lawrence F. Katz

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

Examines selected social and economic problems of the US and evaluates market and governmental solutions. Topics include discrimination, income and wage inequality, welfare reform, antipoverty strategy (including education and training programs), homelessness, crime, and charitable behavior.

Note: Expected to be given in 2011–12. A research paper is required. This course meets the concentration writing requirement.

Prerequisite: Social Analysis 10 or permission of the instructor.

Economics 1816. Race in America

Catalog Number: 2483 Enrollment: Limited to 40.

Roland G. Fryer

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

Examines the causes and consequences of racial inequality in America and evaluates the efficacy of various market and non-market solutions. Topics include: the racial achievement gap in education, the impact of crack cocaine on inner cities, racial differences in health, crime and punishment, labor market discrimination, social interactions and the effects of peer groups, affirmative action, and more.

Note: Offered in alternate years.

Prerequisite: Social Analysis 10.

Economics 1818. Economics of Discontinuous Change

Catalog Number: 3029

Richard B. Freeman

Half course (spring term). Tu., Th., 1-2:00, and a weekly section to be arranged. EXAM GROUP: 15

Explores discontinuous changes in the economic position of groups and countries and presents mathematical and computer simulation models designed to illuminate these changes. Examples include growth/decline of trade unions, segregation of groups, development of linkages on the internet, changes in corporate work culture, growth of social pathologies in neighborhoods, and Malthusian concerns about the environment. Models include nonlinear simulations, neural networks, finite automata, evolutionary stable strategies, causal conjunctures, agent-based simulations, and genetic algorithms.

Note: A research paper is required. Students should have some mathematical background, but



there is no prerequisite.

Prerequisite: Social Analysis 10.

Primarily for Graduates

Economics 2810a. Labor Market Analysis

Catalog Number: 4862

Philip Oreopoulos

Half course (fall term). F., 9–12. EXAM GROUP: 2, 3, 4

Theoretical and empirical research on labor markets. Wage determination covers equalizing differences, human capital, job mobility, and incentive models. Labor supply covers life-cycle models. Labor demand includes minimum wage and union models.

Economics 2811. Social Economics

Catalog Number: 5188

Roland G. Fryer

Half course (spring term). Tu., 5:30–8:30 p.m.

Applies the tools of economics to explore social issues including crime, discrimination, racial and gender differences, poverty, family structure, urban problems, social interactions and peer effects, and intergenerational mobility.

***Economics 2812hf. Research in Labor Economics**

Catalog Number: 0230

Lawrence F. Katz 1480, Roland G. Fryer 5523, Edward L. Glaeser 3219, and Claudia Goldin 2667 (on leave fall term)

Half course (throughout the year). Tu., 1–2:30.

Participants discuss recent research in labor economics and present their own work in progress. Open to doctoral students in economics who have passed their oral examinations.

Economics 2880. Economics of Science

Catalog Number: 7488

Richard B. Freeman

Half course (spring term). Th., 4:45–6:15. EXAM GROUP: 18

Analyzes economic issues regarding the role of science and RD in the economy and in the deployment and productivity of scientists, engineers, and highly skilled technical workers. Topics include: wage levels/employment prospects; stipend policy, education/recruitment, student unionization/post-doc organization, career choices/trajectories, with reference to women; scientific competition/collaboration.

Economics 2888r (formerly Economics 2888hf). Economics of Science and Engineering Workshop

Catalog Number: 6311

Richard B. Freeman

Half course (fall term; repeated spring term). F., 12–1:30. EXAM GROUP: 5, 6

Focus on work force and career issues. Topics include: Effects of globalization on work force and innovation, growth of networks in work; impact of career incentives on productivity;



university policies; mobility between academe and industry; link between ideas and outputs.

Note: Offered jointly with the Business School as 4245.

Graduate Courses of Reading and Research

***Economics 3000. Research Paper**

Catalog Number: 4174

Members of the Department

Intended to fulfill the Research Paper Requirement for the PhD degree in Economics.

Note: Ordinarily, this course is taken during the spring term of the second year of graduate study.

***Economics 3005. Reading and Research**

Catalog Number: 3493

Members of the Department

Individual work or work in small groups (with a professor or lecturer in residence) in preparation for the general examination for the PhD degree, or work on special topics not included in course offerings.

***Economics 3010. Direction of Doctoral Dissertations**

Catalog Number: 4579

Members of the Department

Note: In all cases, the dissertation topic must have been formally submitted to, and approved by, a dissertation adviser.

***Economics 3011. The Behavioral and Experimental Economics Workshop**

Catalog Number: 0109

Attila Ambrus 4665, Drew Fudenberg 3460, Jerry R. Green 1539, David I. Laibson 1241, Markus M. Möbius 3441, and Alvin E. Roth 564 (on leave spring term)

Half course (fall term; repeated spring term). Tu., 2:30–4.

For students with an interest in economic theory. Faculty presentations by Harvard and MIT economists and invited guests. The location alternates between Harvard and MIT.

Prerequisite: Economics 2010a (or 2020a) and 2010b (or 2020b).

***Economics 3086. The Theory Workshop - (New Course)**

Catalog Number: 53875

Susan Athey 5334, Drew Fudenberg 3460, Alvin E. Roth 564 (on leave spring term), and Tomasz Strzalecki 6294

Half course (fall term; repeated spring term). Th., 4–6.

For students with an interest in economic theory. Faculty presentations by Harvard and MIT economists and invited guests. The location alternates between Harvard and MIT.

***Economics 3087. Applied Theory: Research Workshop - (New Course)**

Catalog Number: 13964

Oliver S. Hart, Philippe Aghion, and Andrei Shleifer

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

Presentations of current research in the Applied Theory Field.



***Economics 3163hf. The Econometrics Workshop**

Catalog Number: 4392

Guido W. Imbens 2671 (on leave spring term), Gary Chamberlain 1745, Rustam Ibragimov 5329, Dale W. Jorgenson 2000, and James H. Stock 1783

Half course (throughout the year). Th., 4:30–6.

Outside speakers and faculty present current research topics in theory and applications of econometrics.

***Economics 3336 (formerly *Economics 3336hf). Economic History Workshop**

Catalog Number: 0639

Claudia Goldin 2667 (on leave fall term) and Eric Chaney 6129

Full course (indivisible). F., 3–4:30.

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 3390hf. Economic Development Workshop**

Catalog Number: 2532

Michael R. Kremer 2112 (on leave fall term), Erica M. Field 5095, Richard A. Hornbeck 6423, Asim I. Khwaja (Kennedy School) 3994, and Sendhil Mullainathan 5139

Half course (throughout the year). Fall: Tu., 2:30–4; Spring: W., 2:30–4.

Fall speakers cover issues in growth and development. Spring speakers alternate between “growth and institutions,” focusing on the macro aspects of growth and development, and “labor and development,” focusing on the micro aspects.

***Economics 3410 (formerly Economics 2420). The Monetary and Fiscal Policy Seminar**

Catalog Number: 2126

Alberto F. Alesina 2074, Philippe Aghion 1263, Robert J. Barro 1612, Emmanuel Farhi 5715, Benjamin M. Friedman 3787, David I. Laibson 1241, and N. Gregory Mankiw 1118

Full course (indivisible). M., 2–4.

Seminar speakers present papers on macroeconomic topics, including issues relating to monetary and fiscal policies, economic growth, the role of institutions, and other research issues in the field.

Note: Popularly referred to as the Macro Seminar.

***Economics 3450hf. The Public Economics and Fiscal Policy Seminar**

Catalog Number: 3436

David M. Cutler 2954, Raj Chetty 6276 (on leave spring term), Edward L. Glaeser 3219, and Lawrence F. Katz 1480

Half course (throughout the year). M., 4–6.

Participants discuss recent research in public economics and fiscal policy and present their own work in progress. Open to doctoral students in economics who have passed their oral examinations.

***Economics 3460c (formerly *Economics 3460chf). Research in Health Economics**

Catalog Number: 5309



Joseph P. Newhouse (Kennedy School, Medical School, Public Health) 2425

Half course (fall term).

Participants discuss recent research in health economics. Course may also include presentation of original research by participants. Open to doctoral students only.

***Economics 3530hf. The International Economics Workshop**

Catalog Number: 5777

Pol Antràs 4666 (on leave spring term), Richard N. Cooper 7211, Gita Gopinath 5042, Elhanan Helpman 2334, and Joseph P. Newhouse (Kennedy School, Medical School, Public Health) 2425
Half course (throughout the year). W., 4–6.

Outside speakers and faculty present research papers in all aspects of international economics, including theory, econometrics, and policy.

***Economics 3650hf. The Industrial Organization Workshop**

Catalog Number: 3318

Susan Athey 5334, Gregory M. Lewis 5868, Julie H. Mortimer 3993, and Ariel Pakes 1774
Half course (throughout the year). M., 2:30–4.

Speakers present current research in the field in a seminar setting.

***Economics 3660hf. The Law, Economics, and Organizations Workshop**

Catalog Number: 4325

Lucian A. Bebchuk (Law School) 2042, Oliver S. Hart 3462 (on leave fall term), Louis E. Kaplow (Law School) 3223, Joshua Lerner (Business School) 1601, and Andrei Shleifer 2772
Half course (throughout the year). M., 12:30–2.

The presentation of work in progress in the field of law, economics, and organizations. Presentations by members of the various Harvard faculties, outside speakers, and graduate students.

Note: Offered jointly with the Law School as 96250-11 and with the Business School as 4670.

***Economics 3680hf. Research in Environmental Economics**

Catalog Number: 1227

Robert N. Stavins (Kennedy School) 2093
Half course (throughout the year). Fall: F., at 12; Spring: F., 12–1:30.

Participants discuss recent research in environmental and natural resource economics and present their own work in progress.

Note: Open to doctoral students only.

***Economics 3723hf. The Financial Economics Workshop**

Catalog Number: 4107

Efraim Benmelech 5419, John Y. Campbell 1230, and Jeremy C. Stein 3752
Half course (throughout the year). W., 4–5:30.

Outside speakers present current research in the field in a seminar setting.

***Economics 3810c. The Labor Economics Workshop**

Catalog Number: 4066

Lawrence F. Katz, Richard B. Freeman, and Roland G. Fryer



Full course (indivisible). W., 4–5:30.

Outside speakers present research concerning the operation of labor markets.

Engineering Sciences

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the School of Engineering and Applied Sciences Offering Instruction in Engineering Sciences

Joanna Aizenberg, Amy Smith Berylson Professor of Materials Science
Donald G. M. Anderson, Gordon McKay Professor of Applied Mathematics
James G. Anderson, Philip S. Weld Professor of Atmospheric Chemistry
Debra T. Auguste, Assistant Professor of Biomedical Engineering on the Gordon McKay Endowment
Michael J. Aziz, Gene and Tracy Sykes Professor of Materials and Energy Technologies
Mohamed Belabbas, Lecturer on Engineering Sciences
Katia Bertoldi, Assistant Professor of Applied Mechanics
Michael P. Brenner, Glover Professor of Applied Mathematics and Applied Physics, Harvard College Professor, Area Dean for Applied Mathematics
John Briscoe, Gordon McKay Professor of the Practice of Environmental Engineering in the School of Engineering and Applied Sciences and Professor of the Practice of Environmental Health (School of Public Health)
Roger W. Brockett, An Wang Professor of Electrical Engineering and Computer Science
Federico Capasso, Robert L. Wallace Professor of Applied Physics and Vinton Hayes Senior Research Fellow in Electrical Engineering
David R. Clarke, Gordon McKay Professor of Applied Physics
Philippe Cluzel, Professor of Molecular and Cellular Biology and Gordon McKay Professor of Applied Physics
Kenneth B. Crozier, John L. Loeb Associate Professor of the Natural Sciences
Marie D. Dahleh, Senior Lecturer on Engineering Sciences (*Director of Graduate Studies*)
David A. Edwards, Gordon McKay Professor of the Practice of Biomedical Engineering
Brian F. Farrell, Robert P. Burden Professor of Meteorology (*on leave spring term*)
John Andrew Girash, Lecturer on Engineering and Applied Sciences
Jene A. Golovchenko, Rumford Professor of Physics and Gordon McKay Professor of Applied Physics
Barry A. Griffin, Visiting Lecturer on Design and Design Curriculum Development
Donhee Ham, Gordon McKay Professor of Electrical Engineering and Applied Physics
Colleen M. Hansel, Assistant Professor of Environmental Microbiology



Gary L. Harris, Visiting Professor of Engineering Sciences
 Paul Horowitz, Professor of Physics and of Electrical Engineering (*on leave 2010-11*)
 Robert D. Howe, Abbott and James Lawrence Professor of Engineering, Area Dean for Bioengineering (*Director of Undergraduate Studies*)
 Evelyn Hu, Gordon McKay Professor of Applied Physics and of Electrical Engineering, Area Dean for Electrical Engineering
 John W. Hutchinson, Abbott and James Lawrence Professor of Engineering and Gordon McKay Professor of Applied Mechanics
 Donald E. Ingber, Professor of Bioengineering
 Daniel J. Jacob, Vasco McCoy Family Professor of Atmospheric Chemistry and Environmental Engineering
 Neel S. Joshi, Assistant Professor of Chemical and Biological Engineering
 Navin Khaneja, Gordon McKay Professor of Electrical Engineering (*on leave 2010-11*)
 Zhiming Kuang, Associate Professor of Earth and Planetary Sciences
 H. T. Kung, William H. Gates Professor of Computer Science and Electrical Engineering
 Marko Loncar, Associate Professor of Electrical Engineering
 Yue Lu, Assistant Professor of Electrical Engineering
 L. Mahadevan, Lola England de Valpine Professor of Applied Mathematics and of Organismic and Evolutionary Biology (*on leave 2010-11*)
 Vinothan N. Manoharan, Associate Professor of Chemical Engineering and of Physics
 Scot T. Martin, Gordon McKay Professor of Environmental Chemistry
 Michael B. McElroy, Gilbert Butler Professor of Environmental Studies (*on leave spring term*)
 David J. Mooney, Robert P. Pinkas Family Professor of Bioengineering (*on leave 2010-11*)
 John G. Morrisett, Allen B. Cutting Professor of Computer Science (*on leave fall term*)
 Cherry Murray, John A. and Elizabeth S. Armstrong Professor of Engineering and Applied Sciences and Professor of Physics, Dean of Harvard School of Engineering and Applied Sciences
 Venkatesh Narayanamurti, Benjamin Peirce Professor of Technology and Public Policy
 Daniel Joseph Needleman, Assistant Professor of Applied Physics
 Kevin K. Parker, Thomas D. Cabot Associate Professor of Applied Science
 Shriram Ramanathan, Associate Professor of Materials Science
 James R. Rice, Mallinckrodt Professor of Engineering Sciences and Geophysics
 Peter P. Rogers, Gordon McKay Professor of Environmental Engineering (*on leave 2010-11*)
 Daniel P. Schrag, Sturgis Hooper Professor of Geology and Professor of Environmental Science and Engineering
 Lawrence M. Schwartz, Visiting Lecturer on Engineering Sciences
 Eduardo A. Silva, Lecturer on Engineering Sciences
 Maurice A. Smith, Assistant Professor of Bioengineering on the Gordon McKay Endowment
 Frans A. Spaepen, John C. and Helen F. Franklin Professor of Applied Physics (*on leave spring term*)
 Zhigang Suo, Allen E. and Marilyn M. Puckett Professor of Mechanics and Materials
 Vahid Tarokh, Perkins Professor of Applied Mathematics and Vinton Hayes Senior Research Fellow of Electrical Engineering
 Eli Tziperman, Pamela and Vasco McCoy, Jr. Professor of Oceanography and Applied Physics
 Chad D. Vecitis, Assistant Professor of Environmental Engineering
 Joost J. Vlassak, Gordon McKay Professor of Materials Engineering, Area Dean for Materials Science and Mechanical Engineering



Conor J. Walsh, Visiting Lecturer on Engineering Sciences, Lecturer on Engineering Sciences
 Gu-yeon Wei, Gordon McKay Professor of Electrical Engineering and Computer Science
 David A. Weitz, Mallinckrodt Professor of Physics and of Applied Physics
 Steven C. Wofsy, Abbott Lawrence Rotch Professor of Atmospheric and Environmental Science,
 Area Dean for Environmental Science and Engineering
 Patrick J. Wolfe, Associate Professor of Electrical Engineering on the Gordon McKay
 Endowment (*on leave spring term*)
 Robert J. Wood, Associate Professor of Electrical Engineering
 Woodward Yang, Gordon McKay Professor of Electrical Engineering and Computer Science
 Todd Zickler, John L. Loeb Associate Professor of the Natural Sciences

Other Faculty Offering Instruction in Engineering Sciences

Nancy Kleckner, Herchel Smith Professor of Molecular Biology
 Daniel M. Merfeld, Associate Professor of Otology and Laryngology (*Medical School*)
 Ralph Mitchell, Gordon McKay Professor of Applied Biology, Emeritus
 Sumeeta Srinivasan, Preceptor in Government

The School of Engineering and Applied Sciences (www.seas.harvard.edu) offers undergraduate and graduate courses in Applied Mathematics, Applied Physics, Computer Science, Earth and Planetary Sciences, and Engineering Sciences. Engineering and Applied Sciences faculty also offer several courses in the section entitled Freshman Seminars, Extra-Departmental Courses, and House Seminars.

For information concerning concentration in Engineering Sciences, please consult the Director of Undergraduate Studies or the Office of Student Affairs, School of Engineering and Applied Sciences, Pierce Hall 110.

Primarily for Undergraduates

***Engineering Sciences 1. Introduction to Engineering Sciences**

Catalog Number: 0314

Todd Zickler

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

An integrative introduction to engineering sciences. Combines classroom discussion with activity-based learning, and emphasizes concepts that span multiple disciplines. Covers topics having direct societal impact, and presents them in historical context. Involves qualitative and quantitative analysis, mathematical modeling, and design. Introduces common engineering software and hardware tools.

Note: This course, when taken for a letter grade, meets the General Education requirement for either Science of the Physical Universe or Empirical and Mathematical Reasoning, but not both. This course, when taken for a letter grade, meets the Core area requirement for Science A.

Engineering Sciences 6. Environmental Science and Technology

Catalog Number: 2969



Scot T. Martin

Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

An introduction to the role of technology in environmental sciences with an emphasis on solving problems concerning human use and control of the environment, with foci on energy technology, air & water pollution, and water quality. For each topic, the basic scientific principles underlying engineering control are emphasized. The course includes several field trips.

Note: This course, when taken for a letter grade, meets the General Education requirement for Science of the Physical Universe or the Core area requirement for Science B.

Prerequisite: The course presumes basic knowledge in chemistry, physics, and mathematics at the high school level.

***Engineering Sciences 20 (formerly *Engineering Sciences 147). How to Create Things and Have Them Matter**

Catalog Number: 9676 Enrollment: Limited to 40.

David A. Edwards and Robert D. Howe

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

This aspirational design course teaches students to generate, develop and realize breakthrough ideas in the arts, sciences, and engineering. Students learn basic skills of engineering design, brainstorming, prototyping, and public presentations. Funding is available for continued project development following the course. This year's theme is "The future of water."

Note: Open to sophomores, juniors, and seniors by permission of instructor.

***Engineering Sciences 50. Introduction to Electrical Engineering**

Catalog Number: 4499

Marko Loncar

Half course (spring term). M., W., F., at 2. EXAM GROUP: 7

A discussion of topics of central importance to the fields of electronics, communications and intelligent systems. The material concerns both qualitative and quantitative analysis, as well as laboratory experiments and computer simulations. Examples of topics to be discussed range from relatively simple modules such as analog amplifiers and digital adders, to complex devices such as cell-phones and their supporting infrastructure.

Note: Students who have taken 100-level courses in electrical engineering will not be allowed to enroll in Engineering Sciences 50. This course, when taken for a letter grade, meets the General Education requirement for either Science of the Physical Universe or Empirical and Mathematical Reasoning, but not both. This course, when taken for a letter grade, meets the Core area requirement for Science A.

Engineering Sciences 51. Computer-Aided Machine Design

Catalog Number: 0322

Conor J. Walsh

Half course (fall term). M., W., F., at 10.

A first course in the design and construction of mechanical and electromechanical devices. Engineering graphics and sketching; dimensions and tolerances. Introduction to materials selection and structural design. Machine elements and two-dimensional mechanisms; DC motors. Design methodology. Emphasis on laboratory work and design projects using professional solid modeling CAD software and numerically controlled machine tools.



Note: Intended for freshmen and sophomores. This course, when taken for a letter grade, meets the Core requirement for Science A.

Prerequisite: Mathematics 1b (may be taken concurrently); high school physics.

Engineering Sciences 53. Quantitative Physiology as a Basis for Bioengineering

Catalog Number: 3604

Maurice A. Smith

Half course (fall term). Tu., Th., 2:30-4, and three hours per week of laboratory to be arranged.

EXAM GROUP: 16, 17

A foundation in human organ systems physiology, including cardiac, respiratory, renal, gastrointestinal, and neural systems. Quantitative description of organ systems function and control in terms of physical principles and physiologic mechanisms. Simple mathematical models representing key aspects of organ systems function. Emphasis will be given to understanding the ways in which dysfunction in these systems gives rise to common human disease processes.

Note: Open to freshmen.

***Engineering Sciences 91r. Supervised Reading and Research**

Catalog Number: 1113

Joost J. Vlassak (fall term) and Marie D. Dahleh

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

Guided reading and research.

Note: Normally open to candidates accepted for work on a specific topic by a member of the teaching staff of the School of Engineering and Applied Sciences. Normally may not be taken for more than two terms; may be counted for concentration in Engineering Sciences if taken for graded credit. Applicants should file a project sheet before study cards are filed. Project sheets may be obtained from the Academic Office, Pierce Hall 110.

***Engineering Sciences 96. Engineering Design Seminar**

Catalog Number: 8461 Enrollment: Limited to 25.

Robert D. Howe, Barry A. Griffin, Kevin K. Parker, and Woodward Yang

Half course (spring term). M., Th., 4-6. EXAM GROUP: 9, 18

Project-based class that provides experience in the processes and practice of engineering problem solving and design. Semester-long projects provide training in techniques for problem definition, generation of creative solutions, and decision analysis. Skills covered include oral presentations, technical writing, and team work. Ordinarily taken in the spring term of the junior year.

Note: Preference given to SB candidates.

Cross-listed Courses

***Freshman Seminar 21s. Germs**

For Undergraduates and Graduates

Additional courses of interest to students in Electrical Engineering include: Computer Sciences 141, 143, and 148.

***Engineering Sciences 100. Engineering Design Projects**

Catalog Number: 4268

Robert J. Wood

Half course (fall term; repeated spring term). Th., 4–6. EXAM GROUP: 18

Individual design projects selected to provide experience in the processes and practice of engineering design. Requires proficiency in electronic circuit construction as well as mechanical materials fabrication techniques.

Note: Ordinarily taken in the senior year. This one-term version of Engineering Sciences 100hf is open only to students in special circumstances. Enrolled students are required to file a proposed project form with the Academic Office early in the term. Project approval rests with the faculty Engineering Design Review Board.

Prerequisite: *Engineering Sciences 96.

***Engineering Sciences 100hf. Engineering Design Projects**

Catalog Number: 7535

Robert J. Wood

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 approval rests with the faculty Engineering Design Review Board.

Prerequisite: *Engineering Sciences 96.

Engineering Sciences 103. Spatial Analysis of Environmental and Social Systems

Catalog Number: 9277

Sumeeta Srinivasan

Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

Introduces the fundamental statistical and mapping tools needed for analysis of environmental systems. Topics will be linked by environmental and social themes and will include GIS concepts; data models; spatial statistics; density mapping; buffer zone analysis; surface estimation; map algebra; suitability modeling. Students will acquire technical skills in both mapping and spatial analysis. Software packages used will include ArcGis. There will be guest lectures by researchers and practitioners who use GIS for spatial analysis.

Prerequisite: Applied Mathematics 21 or equivalent.

Engineering Sciences 110. Science, Engineering, and the Community

Catalog Number: 0452 Enrollment: Limited to 15.

Vinothan N. Manoharan

Half course (fall term). M., 5–7:30 p.m. EXAM GROUP: 9

Activity-based course for beginning/intermediate science and engineering undergraduates.

Combines readings and discussions on techniques for learning science and engineering design with implementation in an 8th grade science class in Cambridge. Students work directly with the 8th graders to guide how they learn. Students apply what they discover to improve their own



understanding of college-level science and engineering.

Note: Offered in alternate years.

Prerequisite: Interest in science, engineering, learning, and outreach.

Engineering Sciences 120. Introduction to the Mechanics of Solids

Catalog Number: 1493

Joost J. Vlassak

Half course (spring term). M., W., F., at 1. EXAM GROUP: 6

A first course in the mechanical sciences which introduces elements of continuum mechanics and explains how materials and structures stretch, bend, twist, shake, buckle, and break. Stress-strain behavior of materials. Statically determinate and indeterminate structures. Stress and strain, equations of motion or equilibrium, strain-displacement relations. Torsion. Beam theory with applications to beam deflections, vibrations, and buckling. Three laboratory sessions required.

Prerequisite: Physics 11a or 15a, and Applied Mathematics 21a or Mathematics 21a (previously) and Applied Mathematics 21b or Mathematics 21b (previously or concurrently).

***Engineering Sciences 122. Cellular Engineering**

Catalog Number: 8439

Neel S. Joshi

Half course (spring term). M., W., 11–1. EXAM GROUP: 4, 5

Summary of the physical laws governing cellular homeostasis; role of the tissue microenvironment on cell life, death, and differentiation; control of cellular function and genetic programs by adhesion to substrates; signal transduction pathways and cellular metabolic control; mechanochemical and mechanoelectrical signal transduction; cell motility; clinical and industrial applications of engineered cells.

Prerequisite: Inorganic chemistry, cell biology, physics, and mathematics at the level of Applied Mathematics 21 or Mathematics 21. Suggested courses include organic chemistry and molecular biology.

Engineering Sciences 123. Introduction to Fluid Mechanics and Transport Processes

Catalog Number: 8323

Daniel Joseph Needleman

Half course (spring term). M., W., F., at 10, and laboratory. EXAM GROUP: 3

Dimensional analysis. Basic elements of steady and unsteady thermal conduction and mass diffusion. Statics and dynamics of fluids. Buoyancy-stability and hydrostatics. Laminar viscous flows, potential flows, origin of lift, and basic aspects of boundary layers. Navier-Stokes and continuity equations. Applications in aerodynamics, biomedical, chemical, environmental, and mechanical engineering, biology, and physics. Introduction to finite-element computational software.

Prerequisite: Applied Mathematics 21a,b or Mathematics 21a,b.

Engineering Sciences 125. Mechanical Systems

Catalog Number: 7274

Katia Bertoldi

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



Modeling and analysis of mechanical and electromechanical systems. Topics include 3D rigid body dynamics, resonance, damping, frequency response, Laplace transform methods, Lagrange's equations, multiple degree-of-freedom systems and an introduction to nonlinear vibration, continuous systems, and control. Analytical modeling will be supplemented with numerical simulations and lab experiments. Laboratory exercises will explore vibration, stabilization, and nonlinear systems using data acquisition systems.

Prerequisite: Applied Mathematics 21a,b or Mathematics 21a,b or Mathematics 23a,b; Physics 11a or 15a.

[Engineering Sciences 128. Computational Solid and Structural Mechanics]

Catalog Number: 0359

Katia Bertoldi

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

Foundations of continuum mechanics, conservation laws, stress, strain, and constitutive behavior. Development of elasticity theory. Basic problems of stressing and deformation. Focus on computer analysis using the finite-element method. Plane stress and strain, torsion, wave propagation, vibrations, thin-walled structures, creep, plasticity and fracture. In computer implementation, students develop simple finite-element analyses using the general-purpose program ABAQUS, and do a project addressing a significant problem arising in mechanical, civil or materials engineering, biomechanics, or earth science.

Note: Expected to be given in 2011–12.

Prerequisite: Engineering Sciences 120 or equivalent introduction to the mechanics of deformable materials.

Engineering Sciences 130. Tissue Engineering

Catalog Number: 3169

Omar Ali and Eduardo A. Silva

Half course (fall term). Tu., Th., 1-2:30, and a weekly lab. EXAM GROUP: 15, 16

Fundamental engineering and biological principles underlying field of tissue engineering, along with examples and strategies to engineer specific tissues for clinical use. Students will prepare a paper in the field of tissue engineering, and participate in a weekly laboratory in which they will learn and use methods to fabricate materials and perform 3-D cell culture.

Prerequisite: Biochemistry or cell biology background.

Engineering Sciences 139. Innovation in Science and Engineering: Conference Course

Catalog Number: 0994 Enrollment: Limited to 28.

David A. Weitz

Half course (fall term). M., W., 2:30–4. EXAM GROUP: 7, 8

Explores factors and conditions contributing to innovation in science and engineering; how important problems are found, defined, and solved; roles of teamwork and creativity; and applications of these methods to other endeavors. Students receive practical and professional training in techniques to define and solve problems, and in brainstorming and other individual and team approaches.

Note: Taught through a combination of lectures, discussions, and exercises led by innovators in science, engineering, arts, and business.



Engineering Sciences 145. Physiological Systems Analysis

Catalog Number: 8197

Daniel M. Merfeld (Medical School)

Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16

A survey of systems theory with applications from bioengineering and physiology. Analysis: differential equations, linear and nonlinear systems, stability, the complementary nature of time and frequency domain methods, feedback, and biological oscillations. Applications: nerve function, muscle dynamics, cardiovascular regulation. Laboratory: neural models, feedback control systems, properties of muscle, cardiovascular function.

Prerequisite: Applied Mathematics 21b or Mathematics 21b or equivalent. Physiology at the level of Engineering Sciences 53 suggested.

Engineering Sciences 149. Neural Control of Movement

Catalog Number: 0440

Maurice A. Smith

Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

Approaches from robotics, control theory, and neuroscience for understanding biological motor systems. Analytical and computational modeling of muscles, reflex arcs, and neural systems that contribute to motor control in the brain. Focus on understanding how the central nervous system plans and controls voluntary movement of the eyes and limbs. Learning and memory; effects of variability and noise on optimal motor planning and control in biological systems.

Note: Offered in alternate years.

Prerequisite: Mathematics 21b or Applied Mathematics 21b or equivalent, probability and statistics, Physics 11a or equivalent.

Engineering Sciences 150. Probability with Applications in Electrical Engineering

Catalog Number: 8997

Yue Lu

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

An introduction to basic probabilistic ideas that find application in the study of communications and systems. Topics include: random variables, distributions and densities. Probabilistic models in engineering. Markov chains and other discrete time stochastic processes. Conditional probabilities, Bayes' rule and application to the estimation of the value of a stochastic process. Examples from communication theory; characterization of communication channels.

Introduction to statistical inference and decision theory

Prerequisite: Mathematics 21a or Applied Mathematics 21a, and Mathematics 21b or Applied Mathematics 21b.

Engineering Sciences 151. Electromagnetic Engineering

Catalog Number: 5742

Jene A. Golovchenko

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

Electromagnetism and its applications in modern science and technology, with special emphasis on wireless and fiber-optic communications. Topics include transmission lines and microwave circuits, Maxwell's equations, electromagnetic waves in free space, matter, and waveguides, ray optics, and antennae. Applications of electromagnetism in ultra-fast integrated circuits, wireless



networking, and radio astronomy are also discussed to place the electromagnetic theory in practical contexts of the present-day science research and communication technology.

Prerequisite: Basic electromagnetism (Physics 11b or 15b or equivalent), basic circuit analysis (Engineering Sciences 50 or Engineering Sciences 154 or equivalent), basic vector calculus (Applied Math 21a or equivalent), basic differential equations (Applied Math 21b or equivalent) and familiarity with Fourier analysis (some part of Applied Math 105a or ES 156 or equivalent).

Engineering Sciences 154. Electronic Devices and Circuits

Catalog Number: 6319

Donhee Ham

Half course (fall term). Tu., Th., 2:30-4, and laboratory to be arranged. EXAM GROUP: 16, 17

Design of analog integrated circuits using semiconductor transistors. Emphasis on intuitive design methods, and analytical and simulation-based circuit analysis. Topics: the physics of semiconductors; operating principles of bipolar transistors and field effect transistors; bias circuits and active loads; single- and multi-stage amplifiers; operational amplifiers; frequency responses and stability; noise; switched capacitor circuits and comparators; data converters.

Prerequisite: Familiarity with differential equations and Fourier analysis (Applied Mathematics 21b or Mathematics 21b), familiarity with electric charges and fields (Physics 11b or 15b).

Engineering Sciences 156. Signals and Systems

Catalog Number: 6284

Vahid Tarokh

Half course (spring term). Tu., Th., 2:30-4, and weekly one hour Matlab section and one hour problem section to be arranged. EXAM GROUP: 16, 17

Time and frequency domain representations and analysis of signals and systems. Convolution and linear input-output systems in continuous and discrete time. Fourier transforms and Fourier series for continuous- and discrete-time signals. Laplace and Z transforms. Analog and digital filtering. Modulation. Sampling. FFT. Applications in circuit analysis, communication, control, and computing.

Prerequisite: Applied Mathematics 21b or Mathematics 21b.

[Engineering Sciences 157. Speech and Audio Processing]

Catalog Number: 1724

Patrick J. Wolfe

Half course (spring term). Tu., Th., 2:30-4.

Introduction to speech and audio processing, including both mathematical models and practical applications thereof. Time-frequency analysis, synthesis, modification, and coding of information-carrying natural sound signals; relevant aspects of acoustics and auditory perception; fundamental contemporary applications and methodologies.

Note: Expected to be given in 2011-12.

Prerequisite: Engineering Sciences 156 or equivalent.

Engineering Sciences 159. Introduction to Robotics

Catalog Number: 3126

Robert J. Wood

Half course (spring term). Tu., Th., 1-2:30. EXAM GROUP: 15, 16



Introduction to computer-controlled robotic manipulators. Topics include coordinate frames and transformations, kinematic structure and solutions, statics and dynamics of serial and parallel chain manipulators, control and programming, introduction to path planning, introduction to teleoperation, 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 and Environmental Geomechanics

Catalog Number: 4163

James R. Rice

Half course (spring term). M., W., F., at 11, for three one-hour lecture sessions and 1 and a half hour lab session or section for discussion of assigned problems. EXAM GROUP: 4

Study of water as a critical resource and as a factor in Earth surface and near-surface processes. Focus on development of relevant mechanics and physics. Hydrologic cycle, surface and groundwater, evapotranspiration, soil physics. Flow in porous media, Darcy law, contaminant transport, remediation strategies. Poroelasticity, subsidence, well hydraulics. Seepage forces, landslides, dam failures, sediment liquefaction. Glacial processes. Stream flows, turbulence concepts. Gravity waves, flood control; tsunamis; erosion and sediment transport.

Prerequisite: Applied Mathematics 21a,b or Mathematics 21a,b and Physics 11a,b or 15a,b.

Engineering Sciences 164. Soil and Environmental Chemistry

Catalog Number: 4099

Colleen M. Hansel

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

Basic concepts, principles, and applications of environmental chemistry for students in Earth and environmental sciences. We will investigate a variety of environmental chemistry topics relevant for soil environmental systems, including soil mineralogy, water chemistry, redox reactions, precipitation/dissolution, and ion sorption. The principal goal is to explore and apply the fundamental chemical principles to understand Earth processes and solve complex environmental problems.

Note: Cannot be taken for credit by students who have already taken ENG-SCI 264.

Prerequisite: Physical Sciences 1 or permission of the instructor.

Engineering Sciences 165. Water Engineering

Catalog Number: 4274

Chad D. Vecitis and Anas Chalah

Half course (spring term). M., W., 4–5:30. EXAM GROUP: 9

Introduces engineering technologies for the control of the environment and relates them to underlying scientific principles. Efficient design of environmental management facilities and systems. Cases from aquatic, terrestrial, and atmospheric environments discussed.

Note: For undergraduates or graduates without background in environmental engineering.

Prerequisite: Exposure to the material in Applied Mathematics 21a or 21b or equivalent.

[Engineering Sciences 166. Environmental Microbiology]

Catalog Number: 3177

Colleen M. Hansel



Half course (spring term). Tu., Th., 2:30–4.

This course is designed to introduce students to the fundamental concepts of microbiology and biochemistry in the context of Earth systems and environmental engineering. The goal is to explore the diverse role of microorganisms in biogeochemical cycling, biotechnology, and biodeterioration. General topics include cell structure and chemistry, microbial metabolism, bioenergetics, microbial ecology, energy generation, and pollutant degradation.

Note: Expected to be given in 2011–12.

Prerequisite: LS 1 or permission of instructor.

[Engineering Sciences 167. Environmental Assessment]

Catalog Number: 6885

Instructor to be determined

Half course (fall term). M., W., 3:30–5.

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.

Note: Expected to be given in 2011–12.

Prerequisite: Familiarity with the material of Engineering Sciences 6 and Economics 10.

Engineering Sciences 173. Introduction to Electronic and Photonic Devices

Catalog Number: 3490

Evelyn Hu

Half course (spring term). W., F., 1–2:30.

This course will focus on physical principles underlying semiconductor devices: electrons and holes in semiconductors, energies and bandgaps, transport properties of electrons and holes, p-n junctions, transistors, light emitting diodes, lasers, solar cells and thermoelectric devices.

Prerequisite: Physics 11a and b, or Physics 15a and b or equivalent (mechanics; electromagnetism); undergraduate level quantum mechanics.

Engineering Sciences 174. Photonic and Electronic Device Laboratory

Catalog Number: 3178

Kenneth B. Crozier

Half course (spring term). M., at 9, and a weekly 3-hour lab. EXAM GROUP: 2

Physics and fabrication of photonic and electronic devices. Laboratory experiments and lectures on semiconductor lasers, photodetectors and optical fibers. Students use cleanroom to fabricate MOSFETs. Fabrication lectures on lithography, deposition, etching, oxidation, implantation, diffusion and electrical characterization. Suitable for undergraduate and graduate students wishing to gain fabrication experience.

Prerequisite: Physics 11a and Physics 11b; or Physics 15a and 15b.

***Engineering Sciences 176. Introduction to MicroElectroMechanical System - (New Course)**

Catalog Number: 20243 Enrollment: Limited to 25.

Anas Chalah



Half course (spring term). W., F., 1–2:30.

This course introduces student to the rapidly emerging, multi-disciplinary and exciting field of MicroElectroMechanical Systems (MEMS). It teaches fundamentals of micro machining and Micro fabrication techniques, including planar thin-film process technologies, photolithography and soft-lithography techniques, deposition and etching techniques, and surface, bulk, and electroplating micro machining technologies.

Prerequisite: Physics 11a,b or 15a, b; College Chemistry at the level of Life Sciences 1a and Physical Sciences 1

Engineering Sciences 181. Engineering Thermodynamics

Catalog Number: 3889

Michael J. Aziz

Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

Introduction to engineering thermodynamics with emphasis on classical thermodynamics.

Topics: zeroth law and temperature. Properties of single-component gases, liquids, and solids; steam tables. Equations of state for ideal and simple nonideal substances. First law, heat and heat transfer, work, internal energy, enthalpy. Second law, entropy, free energy. Third law. Heat engines and important engineering applications such as refrigerators, power cycles. Properties and simple models of solutions. Phase and chemical equilibrium in multicomponent systems; chemical potential. Laboratory included.

Prerequisite: Physics 11 or 15 and Applied Mathematics or Mathematics 21; chemistry at the level of a good secondary school course or Chemistry 5.

Engineering Sciences 190. Introduction to Materials Science and Engineering

Catalog Number: 6973

Shriram Ramanathan

Half course (fall term). M., W., 2:30–4. EXAM GROUP: 7, 8

Introduction to the structure, properties, and applications of materials. Crystal structure and defects. Phase transformations: phase diagrams, diffusion, nucleation and growth. Mechanisms of deformation and fracture. Effect of microstructure on properties. Examples from a variety of engineering applications will be discussed.

Prerequisite: Physics 11 or 15, and Applied Mathematics 21a,b or Mathematics 21a,b.

Cross-listed Courses

Earth and Planetary Sciences 133. Atmospheric Chemistry

Earth and Planetary Sciences 135. Physics and Chemistry: In the Context of Energy and Climate at the Global and Molecular Level - (New Course)

Physics 129. Energy Science

Physics 136. Physics of Medical Imaging

Primarily for Graduates

Additional courses of interest to graduate students in Electrical Engineering includes Computer Sciences 246r. Additional courses of interest to graduate students in Decision, Control, and Communication include Economics 2010a, 2010b, 2010c, 2120, 2140; Statistics 110, 171.



Engineering Sciences 201. Decision Theory

Catalog Number: 2362

Mohamed Belabbas

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

Mathematical analysis of decision making. Bayesian inference and risk. Maximum likelihood and nonparametric methods. Algorithmic methods for decision rules: perceptrons, neural nets, and back propagation. Hidden Markov models, Blum-Welch, principal and independent components.

Prerequisite: Applied Mathematics 21a,b or Mathematics 21a,b, and Statistics 110 or equivalents.

Engineering Sciences 202. Estimation and Control of Dynamic Systems

Catalog Number: 5080

Roger W. Brockett

Half course (fall term). M., W., 4–5:30. EXAM GROUP: 9

Study of dynamical systems with deterministic and stochastic inputs. Controllability and observability, linear quadratic control, dynamic programming and the Pontryagin maximum principle, Stochastic models and Kalman-Bucy filtering. Applications from engineering and economics.

Prerequisite: Linear differential equations, matrix algebra, and introductory probability as covered in Mathematics 21a, b and Engineering Sciences 150 or equivalents.

Engineering Sciences 203. Stochastic Control

Catalog Number: 6982

Roger W. Brockett

Half course (spring term). Tu., Th., 10–11:30.

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.

Prerequisite: Applied Mathematics 105a,b or equivalent. Some prior exposure to probability; Engineering Sciences 202 desirable but not essential.

Engineering Sciences 209. Nonlinear Control Systems

Catalog Number: 1194

Roger W. Brockett

Half course (fall term). Tu., Th., 10–11:30.

Study of nonlinear input-output systems including controllability, observability, uniqueness of models, stability, and qualitative behavior of nonlinear dynamical systems. Differential geometry and Lie theory methods developed to study control of classical and quantum mechanical systems.

[Engineering Sciences 210. Mathematical Programming]

Catalog Number: 5499

Donald G. M. Anderson

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



Introduction to basic optimization techniques. Linear programming: the simplex method and related algorithms, duality theory, interior-point methods. Unconstrained optimization, nonlinear programming, convexity.

Note: Expected to be given in 2011–12. Offered in alternate years.

Prerequisite: Applied Mathematics 21a and 21b, or Mathematics 21a and 21b, and Applied Mathematics 120, or equivalent.

***Engineering Sciences 211. Cardiac Biophysics**

Catalog Number: 3906

Kevin K. Parker

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

An in depth review of contemporary theories in the physics of the heart. The class begins with an overview of cardiac physiology, including an indepth examination of cardiac excitation and excitation-contraction coupling. Cardiac membrane channels, the action potential (Hodgkin-Huxley and Luo-Rudy models), and action potential propagation (cable and bidomain models). Arrhythmias, drugs, and defibrillation. The class will rely heavily on the current literature in the field.

Prerequisite: Electromagnetic fields, calculus, cell biology, physiology, and MATLAB programming experience is helpful, but not necessary.

[Engineering Sciences 212. Quantitative Cell Biology: Self-Organization and Cellular Architecture]

Catalog Number: 30956

Instructor to be determined

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

Cell biology – from foundations to current research topics. Intended for students without cell/molecular biology training. Cell architecture, molecular and phenomenological aspects, signaling, organelle form/function, trafficking, quantitative experimental techniques, models of cellular organization and dynamics.

Note: Expected to be given in 2011–12.

Engineering Sciences 220. Fluid Dynamics

Catalog Number: 2759

James R. Rice

Half course (fall term). M., W., F., at 9 and a supplementary weekly meeting for problem discussion (or make-up sessions), tentatively W. at 5:30 pm. EXAM GROUP: 2

Continuum mechanics fundamentals for fluids; conservation of mass and momentum, thermodynamics; stress, kinematics, and constitutive equations; vector and tensor calculus as required. Dimensional analysis and scaling, drag forces, Reynolds number. Navier-Stokes equations, solutions for simple flow states. Low Reynolds number flows; seepage; electroosmosis; lubrication theory. Euler inviscid equations, Kelvin circulation theorem and Bernoulli integrals; gravity waves, effective mass, depth-averaged flow models, large scale Coriolis effects. Compressible fluids and shock waves. Airfoil theory, conformal maps. Boundary layer concepts. Flow instabilities including thermal convection. Turbulence and shear resistance in wall-bounded flows.

Prerequisite: Familiarity with dynamics, vectors, multivariable calculus, and partial differential



equations. An undergraduate course in fluid dynamics or other continuum mechanics is strongly recommended.

***Engineering Sciences 221. Drug Delivery**

Catalog Number: 8223 Enrollment: Limited to 30.

Debra T. Auguste

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

Methods to deliver molecules to the human body. Physiological obstacles and engineering solutions. Characterization techniques for drug delivery synthesis and in vitro analysis. Case studies of current pharmaceutical products.

Prerequisite: Mathematics 21a,b or Applied Mathematics 21a,b, and Chemistry 5 or Life Sciences 1a.

***Engineering Sciences 222. Advanced Cellular Engineering**

Catalog Number: 0696

Neel S. Joshi

Half course (spring term). M., W., 11–1. EXAM GROUP: 4, 5

Students are expected to meet all requirements of Engineering Sciences 122 and to give a presentation on a cellular engineering topic of their choosing, subject to instructor approval, with handouts, homework, and examination questions.

Prerequisite: Inorganic chemistry, cell biology, physics, and mathematics at the level of Applied Mathematics 21 or Mathematics 21. Suggested courses include organic chemistry and molecular biology.

Engineering Sciences 224. Laboratory in Engineering and Physical Biology

Catalog Number: 4136

Nancy Kleckner

Half course (spring term). M., W., 1–5. EXAM GROUP: 6, 7, 8, 9

A project-oriented laboratory course which will integrate genetic, molecular, biochemical and cytological approaches from the life sciences with optical, magnetic and mechanical approaches from the physical sciences. Interesting and original experiments will be organized around a common theme which, this year, will be "Biomechanics of E. coli."

Note: Intended primarily for first year graduate students in the EPB PhD track but available to other graduate students and advanced undergraduates as space and resources permit.

[Engineering Sciences 226r. Special Topics in Neural Engineering: Learning and Memory in Neural Systems]

Catalog Number: 3086

Instructor to be determined

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

Course will present classical findings and new research that give insight into mechanisms of learning and memory formation in neural systems. Learning and memory will be studied both as neurobiological phenomena and as computational challenges.

Note: Expected to be given in 2011–12. Offered in alternate years.

Prerequisite: Applied Mathematics 105a and 105b, probability and statistics.



***Engineering Sciences 227. Medical Device Design - (New Course)**

Catalog Number: 73679 Enrollment: Limited to 16.

Conor J. Walsh

Half course (spring term). Tu., Th., 3:30–5. EXAM GROUP: 17, 18

Project-based course on the design of medical devices to address needs identified by hospital-based clinicians. Students work in teams with physicians to develop a novel device. The design process includes: needs finding; problem identification; prior art searches; strategy and concept generation; estimation; sketching; sketch modeling; machine elements, ergonomics and prototyping.

Prerequisite: ES 51, ES 96 or machine design experience. Graduate course, but open to qualified junior and senior undergraduates.

Engineering Sciences 230 (formerly Engineering Sciences 223). Advanced Tissue Engineering

Catalog Number: 5718

Omar Ali and Eduardo A. Silva

Half course (fall term). Tu., Th., 1-2:30, and a weekly lab. EXAM GROUP: 15, 16

Fundamental engineering and biological principles underlying field of tissue engineering, along with examples and strategies to engineer specific tissues for clinical use. Student design teams prepare a research proposal and participate in a weekly laboratory.

Prerequisite: Biochemistry or cell biology background.

***Engineering Sciences 231. Survey of Energy Technology**

Catalog Number: 1486

Lawrence M. Schwartz

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

Principles governing energy generation and interconversion. Current and projected world energy use. Selected important current and anticipated future technologies for energy generation, interconversion, storage, and end usage.

Prerequisite: One full year of college-level physics and familiarity with chemistry at the high school advanced placement level.

[Engineering Sciences 232. Understanding Manufacturing Technology and Industry Evolution: Seminar]

Catalog Number: 97585

Woodward Yang

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

Graduate seminar on historical evolution of steel, semiconductor, and auto industries and to explore relationships between manufacturing processes, technological innovations, and industry structure. Group project to analyze another major industry.

Note: Expected to be given in 2011–12. Open to undergraduates by permission of instructor.

Prerequisite: Undergraduate level background in Physics, Chemistry, and/or Engineering and in Economics.

Engineering Sciences 239. Advanced Innovation in Science and Engineering: Conference Course



Catalog Number: 8303 Enrollment: Limited to 28.

David A. Weitz

Half course (fall term). M., W., 2:30–4. EXAM GROUP: 7, 8

Students are expected to meet all the requirements of Engineering Sciences 139 and in addition are required to prepare an individual term project with significant analytic emphasis in an area of scientific or technological innovation.

Engineering Sciences 240. Solid Mechanics

Catalog Number: 2984

Joost J. Vlassak

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

Foundations of continuum mechanics, development of elasticity theory, and introduction to plasticity and creep. Elastic waves. Basic elasticity solutions. Variational principles.

Prerequisite: Applied Mathematics 105b or equivalent; introduction to solid mechanics at the level of Engineering Sciences 120, or Earth and Planetary Sciences 108 or 166, or Applied Physics 293.

Engineering Sciences 241. Advanced Elasticity

Catalog Number: 6711

Zhigang Suo

Half course (spring term). Tu., Th., 10–11:30.

Finite deformation; instabilities; thermodynamics; thermoelasticity; poroelasticity; electroactive polymers, hydrogels, polyelectrolyte gels

Note: Offered in alternate years.

Prerequisite: Engineering Sciences 240 and Applied Mathematics 201 or equivalents.

Engineering Sciences 242r. Solid Mechanics: Advanced Seminar

Catalog Number: 5379

Katia Bertoldi

Half course (spring term). Tu., Th., 1:30–3.

The key goal of this class is the application of the finite element method to classical and state-of-the-art modeling and design problems. Topics include instability analysis, analysis of waves propagation, fluid-structure interactions.

Prerequisite: Engineering Sciences 240 or equivalent.

[Engineering Sciences 246. Plasticity]

Catalog Number: 4271

Joost J. Vlassak

Half course (fall term). Tu., Th., 2:30–4.

Phenomenological theories for strain hardening materials; flow and deformation theories.

Variational principles and other general theorems. Mechanisms of plastic deformation, physical theories for strain hardening materials, and polycrystals. Ideal plasticity. Boundary value problems, plastic collapse, buckling of structures.

Note: Expected to be given in 2011–12.

Prerequisite: Engineering Sciences 240, or equivalent.



[Engineering Sciences 247. Fracture Mechanics]

Catalog Number: 7152

Instructor to be determined

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

Fundamentals of fracture with applications in materials and structural mechanics.

Micromechanics of fracture in ceramics, metals, and polymers. Fracture of composite materials.

Interfacial fracture mechanics. Fatigue crack propagation.

Note: Expected to be given in 2011–12.

Prerequisite: Engineering Sciences 240 or equivalent.

Engineering Sciences 249. Advanced Neural Control of Movement

Catalog Number: 3145

Maurice A. Smith

Half course (spring term). Tu., Th., 10–11:30.

Students expected to meet all of the requirements of Engineering Sciences 149 and in addition to submit a term project with significant analytic content.

Note: Offered in alternate years.

Prerequisite: Mathematics 21b or Applied Mathematics 21b or equivalent, probability and statistics, Physics 11a or equivalent.

Engineering Sciences 250. Information Theory

Catalog Number: 8606

Patrick J. Wolfe

Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16

Fundamental concepts of information theory and applications to signal processing, communications, statistics. Entropy, differential entropy, mutual information; data compression and rate distortion theory; channel capacity, coding, the Gaussian channel. Contemporary research topics as time permits.

Prerequisite: Probability theory in Engineering Sciences 150, Statistics 110, or equivalent; or permission of instructor.

[Engineering Sciences 252. Micro/Nano Robotics]

Catalog Number: 0239

Robert J. Wood

Half course (spring term). Tu., Th., 11:30–1.

Motivations and methods for the development of robotic devices on the micro and nano scale.

Topics include sensors, actuators, fabrication paradigms, and the physics of scaling. Examples from surgical robotics, mobile microrobots, and micro/nano manipulation.

Note: Expected to be given in 2011–12.

[Engineering Sciences 255. Detection and Estimation Theory and Applications]

Catalog Number: 9816

Navin Khaneja

Half course (fall term). Tu., Th., 10–11:30.

Statistical decision theory; hypothesis testing; linear and non-linear estimation; maximum likelihood and Bayes approaches; stochastic processes and systems; signal detection and



estimation in noise; Wiener and Kalman filtering; applications to physical, chemical, and biological systems.

Note: Expected to be given in 2011–12.

Prerequisite: Knowledge of probability theory and calculus.

[Engineering Sciences 257. Advanced Speech and Audio Processing]

Catalog Number: 5006

Patrick J. Wolfe

Half course (spring term). Tu., Th., 2:30–4.

Students are expected to meet all the requirements of Engineering Sciences 157 and in addition are required to prepare a more substantial term project at a level on par with current research in the field.

Note: Expected to be given in 2011–12. Offered jointly with Harvard-MIT Division of Health Sciences and Technology as HST.729.

Prerequisite: Engineering Sciences 156 or equivalent.

Engineering Sciences 259. Advanced Introduction to Robotics

Catalog Number: 3671

Robert J. Wood

Half course (spring term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16

Course requirements are similar to 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 261. Design of Water Resource Systems]

Catalog Number: 3919

Peter P. Rogers

Half course (fall term). M., W., 3:30–5.

Design of evaluation and management systems for water resources. Uses techniques of operations research for planning integrated water resources systems. Applications to water supply, irrigation hydropower, environmental protection, and conservation of wildlife.

Note: Expected to be given in 2011–12. Offered in alternate years.

Prerequisite: Applied Mathematics 21b or Mathematics 21b or equivalent.

Engineering Sciences 263. Microbial Geochemistry

Catalog Number: 5384

Colleen M. Hansel

Half course (spring term). Tu., 9:30–12.

This course explores advanced concepts in microbe-metal-mineral interactions. Topics include microbial metabolism, bioenergetics, biomineralization, energy generation, and pollutant degradation, discussed within the context of Earth systems and environmental remediation.

Note: Offered in alternate years.

Prerequisite: Knowledge of undergraduate level chemistry and microbiology required (minimum of Life Sciences 1a and Physical Sciences 1 or equivalent courses) or permission of instructor.



[Engineering Sciences 264. Advanced Aqueous and Environmental Chemistry]

Catalog Number: 1726

Colleen M. Hansel

Half course (fall term). M., W., 1–2:30.

Content and requirements are similar to ES 164, with the exception that students enrolled in ES 264 are assigned more demanding problem sets and are required to prepare a term project or presentation in applied environmental chemistry.

Note: Expected to be given in 2011–12. Cannot be taken for credit by students who have already taken ENG-SCI 164.

Prerequisite: Physical Sciences 1 or permission of the instructors.

[Engineering Sciences 266. Advanced Environmental Microbiology]

Catalog Number: 2807

Colleen M. Hansel

Half course (spring term). Tu., Th., 2:30–4.

Course content and requirements are similar to ES 166, with the exception that students enrolled in ES 266 are assigned more demanding problem sets and are required to prepare a term project or presentation in environmental microbiology.

Note: Expected to be given in 2011–12.

Engineering Sciences 267. Aerosol Science and Technology

Catalog Number: 4446

Scot T. Martin

Half course (fall term). Tu., Th., 11:30–1.

Physics and chemistry of aerosol particles. Concepts: size, shape, and density; number size distributions; uniform, accelerated, and Brownian motion; electrical properties; measurement instrumentation; condensation/evaporation; coagulation; and optical properties. Taught by reference to topical problems.

Note: Offered in alternate years.

[Engineering Sciences 268. Environmental Chemical Kinetics]

Catalog Number: 8711

Instructor to be determined

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

Time rate of change of chemical species in environmental systems. Measure rate constants.

Linear free energy relationships and structural contributions to estimate unknown rate constants.

Formulating a coupled chemical system. Numerical analysis of complex systems.

Note: Expected to be given in 2011–12. Offered in alternate years.

[Engineering Sciences 271r. Topics in Mixed-Signal Integrated Circuits]

Catalog Number: 1158

Gu-yeon Wei

Half course (fall term). M., W., 4:30–6.

Reviews research and development of various topics in mixed-signal integrated circuits and systems. Topics in 2009 will focus on ultra-low-power circuits and architectures for deeply embedded systems; accelerator-based multi-core computing platforms; low-voltage memories;



subthreshold circuits for digital and analog computing; robust low-current reference generators; low-voltage voltage regulators and delivery; and related circuits.

Note: Expected to be given in 2011–12.

Prerequisite: Computer Science 148 or Computer Science 248 or equivalent, and Engineering Sciences 154 or equivalent, or with permission of instructor.

Engineering Sciences 272. RF and High-Speed Integrated Circuits

Catalog Number: 5157

Donhee Ham

Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

Analysis and design of RF and high speed integrated communication circuits at both transistor and system levels. Emphasis on intuitive design methods, physical understanding, analytical and simulational performance evaluation, and practical technology limitations.

Prerequisite: Solid-state devices and analog circuits (Engineering Sciences 154 or equivalent), basic electromagnetism (Physics 11b or 15b or some part of Engineering Sciences 151 or equivalent), basic differential equations (Applied Mathematics 21b or equivalent), and Fourier analysis (some part of Applied Mathematics 105a or Engineering Sciences 156 or equivalent).

Engineering Sciences 273. Optics and Photonics

Catalog Number: 8382

Marko Loncar

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

Topics include: review of electromagnetism, negative index materials, optical beams and free-space optics, guided wave optics (including optical fiber), optical resonators, perturbation and couple mode theory, transfer matrix methods, periodic optical structures, plasmons, nonlinear optics.

Note: Open to graduate students and advanced undergraduates.

Engineering Sciences 274. Quantum Technology I

Catalog Number: 5645

Federico Capasso

Half course (spring term). W., F., 2:30–4. EXAM GROUP: 7, 8

Covers concepts of device physics, including semiconductors, photonic devices, related quantum concepts. Semiconductor heterostructures: band structure engineering. Quantum wells, superlattices; resonant tunneling; Stark effect. Diode lasers; quantum well lasers, modulators and detectors; quantum cascade lasers.

Prerequisite: Undergraduate level quantum mechanics such as Physics 143a or equivalent.

Engineering Sciences 275. Nanophotonics

Catalog Number: 9815

Kenneth B. Crozier

Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16

Recent developments in micro- and nano-photonic materials, devices and microscopy. Computational electromagnetics. Photonic crystals. Optical properties of metal nanostructures. Optical forces. Scanning near-field optical microscopy. Term-long research project.



Note: Open to graduate students and advanced undergraduates.

Prerequisite: Electromagnetism (Physics 11b or 15b or Engineering Sciences 151 or equivalent).

***Engineering Sciences 276. Introduction to MicroElectroMechanical System - (New Course)**

Catalog Number: 86872 Enrollment: Limited to 25.

Anas Chalah

Half course (spring term). W., F., 1–2:30.

This course introduces student to the rapidly emerging, multi-disciplinary and exciting field of MicroElectroMechanical Systems (MEMS). It teaches fundamentals of micro machining and Micro fabrication techniques, including planar thin-film process technologies, photolithography and soft-lithography techniques, deposition and etching techniques, and surface, bulk, and electroplating micro machining technologies.

Prerequisite: Physics 11a,b or 15a, b; College Chemistry at the level of Life Sciences 1a and Physical Sciences 1

Engineering Sciences 299r. Special Topics in Engineering Sciences

Catalog Number: 6710

Robert D. Howe

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

Supervision of experimental or theoretical research on acceptable engineering and applied science problems and supervision of reading on topics not covered by regular courses of instruction.

Note: Open to graduate students and AB/SM candidates only. Students must arrange such work with a member of the School of Engineering and Applied Sciences. This course is graded and is ordinarily taken with the approval of the Committee on Higher Degrees. Applicants must file a project sheet before study cards are filed. Project sheets may be obtained from the Academic Office, Pierce Hall 110.

Cross-listed Courses

[Earth and Planetary Sciences 202. Mechanics in Earth and Environmental Science]

***Earth and Planetary Sciences 231. Climate Dynamics**

Systems Biology 205 (formerly Systems Biology 207). Synthetic Biology

Additional courses of interest to graduate students in Environmental Science and Engineering might include courses offered at the Harvard School of Public Health.

Graduate Courses of Reading and Research

Reading courses are odd-numbered; research courses are even-numbered.

***Engineering Sciences 301,302. Nanophotonics**

Catalog Number: 7403,4838

Kenneth B. Crozier 5146



***Engineering Sciences 303,304. Topics in Electronic Materials and Semiconductor Heterostructure Physics**

Catalog Number: 8668,2824

Venkatesh Narayanamurti 5445

***Engineering Sciences 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 311,312. Systems and Control, Quantum Information and Quantum Control, Computational Vision, Image Analysis and Understanding**

Catalog Number: 2025,9377

Navin Khaneja 4192 (on leave 2010-11)

***Engineering Sciences 313,314. Image Processing and Computer Vision**

Catalog Number: 4254,8534

Todd Zickler 5143

***Engineering Sciences 315,316. Wireless Computing and Networking**

Catalog Number: 2848,2849

H. T. Kung 3155

***Engineering Sciences 319,320. Microrobotics and Bio-inspired Autonomous Robotic Systems**

Catalog Number: 5306,5314

Robert J. Wood 5339

***Engineering Sciences 321,322. Heterogeneous Nanophotonic Devices and Bio-templated Electronic Materials**

Catalog Number: 85105,33583

Evelyn Hu 6682

***Engineering Sciences 323,324. Statistical Signal Processing**

Catalog Number: 1174,5484

Patrick J. Wolfe 5144 (on leave spring term)

***Engineering Sciences 325,326. Mixed-Signal VLSI Design**

Catalog Number: 8415,9336

Gu-yeon Wei 4102



***Engineering Sciences 327,328. Circuit Design and Scientific Instrumentation**

Catalog Number: 4901,6521

Paul Horowitz 3537 (on leave 2010-11)

***Engineering Sciences 329,330. Wireless Communication and Networking**

Catalog Number: 4111,7427

Vahid Tarokh 4368

***Engineering Sciences 331,332. RF/Microwave/Analog/Mixed-Signal Integrated Circuits and Ultrafast Electronics**

Catalog Number: 9645,9655

Donhee Ham 4519

***Engineering Sciences 333,334. Mechanics and Materials in Small Structures**

Catalog Number: 6528,5449

Zhigang Suo 4761

***Engineering Sciences 335,336. Mechanics of Engineering Materials and Small Devices**

Catalog Number: 8173,2399

Joost J. Vlassak 3184

***Engineering Sciences 337,338. Mechanics of Solids and Fluids: Earthquake Seismology and Environmental Geomechanics**

Catalog Number: 4316,3948

James R. Rice 7270

***Engineering Sciences 339,340. Materials Physics and Engineering**

Catalog Number: 39784,54891

David R. Clarke 6684

***Engineering Sciences 341,342. Mechanics of soft materials - (New Course)**

Catalog Number: 39227,54334

Katia Bertoldi 6440

***Engineering Sciences 343,344. Deformation and Fracture of Materials**

Catalog Number: 3907,2803

John W. Hutchinson 1573

***Engineering Sciences 345,346. Neural Control of Movement**

Catalog Number: 6002,6007

Maurice A. Smith 5342

***Engineering Sciences 348. Biomolecular Engineering, Molecular Self-Assembly and Responsive Materials - (New Course)**

Catalog Number: 90749

Neel S. Joshi 6595



***Engineering Sciences 351,352. Engineering Mammalian Cell Phenotype**

Catalog Number: 4879,6421

David J. Mooney 4879 (on leave 2010-11)

***Engineering Sciences 353,354. Cellular Biophysics**

Catalog Number: 3813,3798

Kevin K. Parker 4788

***Engineering Sciences 357,358. Atmosphere-Biosphere Interactions**

Catalog Number: 7661,8060

Steven C. Wofsy 4396

***Engineering Sciences 359,360. Stratospheric Chemistry and Transport**

Catalog Number: 8410,6856

Steven C. Wofsy 4396

***Engineering Sciences 361,362. Atmospheric Chemistry**

Catalog Number: 7238,7514

Daniel J. Jacob 1781

***Engineering Sciences 363,364. Dynamic Meteorology**

Catalog Number: 3756,3757

Brian F. Farrell 7628 (on leave spring term)

***Engineering Sciences 365,366. Topics in Atmospheric and Climate Dynamics**

Catalog Number: 3233,3236

Zhiming Kuang 5285

***Engineering Sciences 367,368. Environmental Science**

Catalog Number: 6773,9810

Michael B. McElroy 2462 (on leave spring term)

***Engineering Sciences 369,370. Urban and Regional Systems Analysis**

Catalog Number: 8775,8768

Peter P. Rogers 2804 (on leave 2010-11)

***Engineering Sciences 371,372. Environmental Microbiology**

Catalog Number: 6258,3885

Colleen M. Hansel 5609

***Engineering Sciences 373,374. Water Management**

Catalog Number: 63797,12275

John Briscoe 6683



***Engineering Sciences 375,376. Environmental Biology**

Catalog Number: 3985,2863

Ralph Mitchell 1587

***Engineering Sciences 377,378. Transport Phenomena and Biomaterials for Drug Delivery**

Catalog Number: 6385,8671

David A. Edwards 3919

***Engineering Sciences 379,380. Biomaterials**

Catalog Number: 2354,0313

Debra T. Auguste 5615

***Engineering Sciences 381,382. Environmental Nanotechnology - (New Course)**

Catalog Number: 69441,17919

Chad D. Vecitis 6609

***Engineering Sciences 389,390. Environmental Chemistry**

Catalog Number: 6660,1639

Scot T. Martin 3365

***Engineering Sciences 393,394. Microelectronics and VLSI Systems**

Catalog Number: 6037,6056

Woodward Yang 2790

***Engineering Sciences 395,396. Nanoscale Optics, NEMS and Nanofabrication Technology**

Catalog Number: 2564,3687

Marko Loncar 5703

***Engineering Sciences 397,398. Multidimensional Signal Processing, Sensor Networks, and Computational Imaging - (New Course)**

Catalog Number: 78552,93659

Yue Lu 6750

Cross-listed Courses

*Computer Science 365. SEAS Teaching Practicum

English



AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Department of English

James Simpson, Donald P. and Katherine B. Loker Professor of English, Harvard College Professor (*Chair*)

Daniel Albright, Ernest Bernbaum Professor of Literature (*Director of Undergraduate Studies, spring term*)

Homi K. Bhabha, Anne F. Rothenberg Professor of the Humanities

Lawrence Buell, Powell M. Cabot Professor of American Literature (*on leave 2010-11*)

Stephen Louis Burt, Professor of English (*on leave spring term*)

Glenda R. Carpio, Professor of English and of African and African American Studies

Amanda Claybaugh, Professor of English

Leo Damrosch, Ernest Bernbaum Professor of Literature, Emeritus, Ernest Bernbaum Professor of Literature (*on leave fall term*)

Leland P. de la Durantaye, Gardner Cowles Associate Professor of English

Daniel G. Donoghue, John P. Marquand Professor of English (*Director of Undergraduate Studies, fall term*)

James Engell, Gurney Professor of English Literature and Professor of Comparative Literature (*on leave 2010-11*)

Christine Mary Evans, Briggs-Copeland Lecturer on English (*on leave spring term*)

Philip J. Fisher, Felice Crowl Reid Professor of English

Darcy Frey, Briggs Copeland Lecturer on English (*on leave 2010-11*)

Melissa Ganz, College Fellow in the Department of English

Marjorie Garber, William R. Kenan, Jr. Professor of English and of Visual and Environmental Studies

Henry Louis Gates, Jr., Alphonse Fletcher, Jr. University Professor

Jorie Graham, Boylston Professor of Rhetoric and Oratory (*on leave fall term*)

Stephen J. Greenblatt, Cogan University Professor

Joseph C. Harris, Francis Lee Higginson Professor of English Literature and Professor of Folklore

Amy Hempel, Briggs-Copeland Lecturer on English

Bret A. Johnston, Senior Lecturer on English

Robert Nicholas Jose, Visiting Professor of English (*University of Adelaide*)

Matthew Kaiser, Associate Professor of English (*on leave 2010-11*)

Joanna G. Klink, Briggs-Copeland Lecturer on English

Verlyn Klinkenborg, Visiting Lecturer on English

Barbara K. Lewalski, William R. Kenan, Jr. Professor of History and Literature and of English, Emerita

Elizabeth Dyrud Lyman, Assistant Professor of English and American Literature and Language

Louis Menand, Anne T. and Robert M. Bass Professor of English (*on leave fall term*)

Elisa New, Professor of English (*on leave 2010-11*)

Diane Paulus, Professor of the Practice of Theatre

Leah Price, Professor of English, Harvard College Professor

Martin Puchner, Professor of English and of Comparative Literature (*Director of Graduate Studies*)



Daniel J. Rubin, Briggs-Copeland Lecturer on English
 Peter Sacks, John P. Marquand Professor of English (*on leave fall term*)
 Robert Scanlan, Professor of the Practice of Theatre
 Elaine Scarry, Walter M. Cabot Professor of Aesthetics and the General Theory of Value
 Marc Shell, Irving Babbitt Professor of Comparative Literature and Professor of English (*on leave 2010-11*)
 Michael Shinagel, Senior Lecturer on English
 Werner Sollors, Henry B. and Anne M. Cabot Professor of English Literature and Professor of African and African American Studies (*on leave spring term*)
 John Stauffer, Professor of English and of African and African American Studies (*on leave spring term*)
 Jason W. Stevens, Assistant Professor of English
 Gordon Teskey, Professor of English (*on leave fall term*)
 Kenneth J. Urban, Preceptor in Expository Writing, Visiting Lecturer on English
 Aarthi Vadde, College Fellow in the Department of English
 Joanne van der Woude, Assistant Professor of English and of History and Literature (*on leave 2010-11*)
 Helen Vendler, Arthur Kingsley Porter University Professor (*on leave fall term*)
 Andrew Warren, Assistant Professor of English
 Nicholas Watson, Professor of English
 James Wood, Professor of the Practice of Literary Criticism (*on leave 2010-11*)

Other Faculty Offering Instruction in the Department of English

Ann M. Blair, Henry Charles Lea Professor of History, Harvard College Professor (*on leave spring term*)
 Lisa T. Brooks, Assistant Professor of History and Literature and of Folklore and Mythology
 Biodun Jeyifo, Professor of African and African American Studies and of Comparative Literature
 Robert J. Kiely, Donald P. and Katherine B. Loker Professor of English, Emeritus
 Joseph Koerner, Victor S. Thomas Professor of History of Art and Architecture

Department of English Common Ground Courses are required of concentrators, and are ordinarily not an entry point to the study of English at Harvard for non-concentrators. Students are invited, however, to begin with any course that seems suited to their interests and level of preparation: a Freshman Seminar taught by faculty members from the English Department or a 100-level course, all of which are taught in lecture or discussion format according to enrollment size; or, space permitting and with instructor consent, a 90-level Undergraduate Seminar or a Creative Writing Workshop.

I. Creative Writing

Primarily for Undergraduates

Without approval of the department, no student may take more than one full course (two half courses) 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 Cakr. Advanced Playwriting**

Catalog Number: 8581 Enrollment: Limited to 12.

Christine Mary Evans

Half course (fall term). W., 1–4.

This workshop-based course offers students a chance to consolidate previous skills and explore new approaches to developing full-length works. We will combine intensive weekly writing exercises with reading, play analysis and dramatic theory. Students will be asked to experiment with form and content in order to develop their own unique theatrical voices. All students will complete a full-length play in addition to shorter pieces.

Note: Admission based on submitted samples of writing. For information on specific application requirements, please see the English Department's Creative Writing web page.

***English Calr. Dramatic Screenwriting II**

Catalog Number: 1240 Enrollment: Limited to 12.

Daniel J. Rubin

Half course (spring term). W., 1–4. EXAM GROUP: 6, 7, 8

This course will build up writing muscles of students seriously interested in screenwriting. Students will write and re-write scenes; alter and develop characters; solve story problems; re-write dialogue; give and receive pitches; do film analysis; workshop written materials; perform exercises related to the actual work done by professional screenwriters. By the end of the course students will have completed several short film scripts and the first act of an original feature length script.

Note: Admission based on submitted samples of writing. For information on specific application requirements, please see the English Department's Creative Writing web page.

***English Camr. Advanced Playwriting 2: Production Workshop**

Catalog Number: 2555 Enrollment: Limited to 12.

Kenneth J. Urban

Half course (spring term). Th., 2–5.

This workshop-based course is for advanced playwrights who have already completed a full-length or one-act play. Students will write a new play, developed through several drafts in a collaborative process that models professional practice. Each student will be paired with a director, actors, and a graduate dramaturge from the Advanced Institute of Theatre Training (I.A.T.T.), culminating in rehearsed public readings of the plays as part of the annual Harvard Playwrights' Festival.

Note: Admission based on submitted samples of writing. For information on specific application requirements, please see the English Department's Creative Writing web page.

***English Capr. Advanced Poetry Workshop**

Catalog Number: 6523 Enrollment: Limited to 12.

Jorie Graham

Half course (spring term). W., 1–4. EXAM GROUP: 6, 7, 8

Open by application to both undergraduates and graduates. Please submit a portfolio including a



letter of interest, ten poems, and a list of classes (taken at Harvard or elsewhere) that seem to have bearing on your enterprise. Class lasts 3 hours and includes the study of poetic practice in conjunction with the discussion of student work.

Note: Admission based on submitted samples of writing. For information on specific application requirements, please see the English Department's Creative Writing web page.

***English Cawr. Advanced Poetry Workshop**

Catalog Number: 19931 Enrollment: Limited to 12.

Joanna G. Klink

Half course (fall term; repeated spring term). W., 1–4. EXAM GROUP: 6, 7, 8

Open by application to undergraduates and graduates. This is an advanced workshop devoted to critical analysis and revision of poems. We will discuss student work in light of central problems in poetics, with particular emphasis on the relationship between voice (evidence of human presence) and description (evidence of world).

Note: Admission based on submitted samples of writing. For information on specific application requirements, please see the English Department's Creative Writing web page.

***English Ckr. Introduction to Playwriting**

Catalog Number: 6781 Enrollment: Limited to 12.

Christine Mary Evans (fall term) and Kenneth J. Urban (spring term)

Half course (fall term; repeated spring term). Fall: Tu., 1–4; Spring: W., 2–5.

In this workshop, students will learn the fundamentals of dramatic structure and develop their skills in creating compelling characters, dialogue and plot. Students will complete a monologue, a ten-minute play, and a short one-act play by the end of the term. In addition to discussing student writing, we will also read a selection of contemporary plays in order to discuss the elements of drama.

Note: Admission based on submitted samples of writing. For information on specific application requirements, please see the English Department's Creative Writing web page.

***English Clr. Dramatic Screenwriting I**

Catalog Number: 6121 Enrollment: Limited to 12.

Daniel J. Rubin

Half course (fall term; repeated spring term). Fall: T., 4–7 p.m.; W., 4–7 p.m.; Spring: M., 1–4.

This workshop introduces the art, craft, and business of screenwriting. Students will complete short scripts and off-beat writing exercises focused on dramatic structure, character development, dialogue, theme, and tone; students will also analyze films and screenplays. By exploring visual storytelling, personal versus commercial sensibilities, and alternative approaches to script creation through the writing of short screenplays, students will acquire the tools, skills, and confidence to create feature film scripts.

Note: Admission based on submitted samples of writing. For information on specific application requirements, please see the English Department's Creative Writing web page.

***English Cnfr. Introduction to Creative Nonfiction**

Catalog Number: 6740 Enrollment: Limited to 12.

Katherine R. Rich (fall term) and Verlyn Klinkenborg (spring term)

Half course (fall term; repeated spring term). W., 4–7 p.m. EXAM GROUP: Fall: 9



Whether in essay, memoir or reportage, creative nonfiction employs many of the same literary techniques as fiction: narrative structure, character development, scene-setting, extended dialogue, emphasis on voice and point of view. In addition to workshopping student writing, we discuss examples of the genre by writers such as Virginia Woolf, William Maxwell, Joan Didion, and John McPhee. Assignments include two 10-15 page narratives, an extensive revision, and typed critiques of classmates' work.

Note: Admission based on submitted samples of writing. For information on specific application requirements, please see the English Department's Creative Writing web page.

***English Cnnr. Advanced Creative Nonfiction**

Catalog Number: 2121 Enrollment: Limited to 12.

Katherine R. Rich (fall term) and Verlyn Klinkenborg (spring term)

Half course (fall term; repeated spring term). Th., 4–7 p.m. EXAM GROUP: 18

In any long-form nonfiction (essay, memoir, travelogue, journalism), there are countless ways of structuring and telling a true story. In this workshop, students examine various techniques for giving nonfiction material dramatic and suspenseful energy: chronology, argument, juxtaposition, retrospection, evolving revelation. In addition to workshopping student writing, we discuss examples of the genre by writers such as Julia Blackburn, Truman Capote, Spalding Gray, and Janet Malcolm. Assignments include two 10-15 page narratives, an extensive revision, and typed critiques of classmates' work.

Note: Admission based on submitted samples of writing. For information on specific application requirements, please see the English Department's Creative Writing web page.

***English Cpkp. Poetry Workshop**

Catalog Number: 9817 Enrollment: Limited to 12.

Joanna G. Klink

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

Open by application to undergraduates and graduates. This is a poetry workshop involving critical analysis of student work as well as reading and discussion of poems by established poets. On a weekly basis we will examine student poems and the practical issues in poetics (descriptive language, syntax, diction, etc.) they bring to light. Be prepared to do imitations; some memorization may also be required.

Note: Admission based on submitted samples of writing. For information on specific application requirements, please see the English Department's Creative Writing web page.

***English Cpwr. Poetry Workshop**

Catalog Number: 4606 Enrollment: Limited to 12.

Jorie Graham

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

Open by application to both undergraduates and graduates. Please submit a portfolio including five poems, a letter explaining your interest in the class, and a list of relevant classes taken at Harvard or elsewhere. Class includes the discussion of literary texts as well as work written by students.

Note: Admission based on submitted samples of writing. For information on specific application requirements, please see the English Department's Creative Writing web page.



***English Crr. Fiction Writing**

Catalog Number: 1893 Enrollment: Limited to 12.

Bret A. Johnston

Half course (fall term; repeated spring term). W., 4–7 p.m. EXAM GROUP: 9

An introduction to fundamental aspects (technical and conceptual) of writing fiction, beginning with short exercises and moving toward the completion and revision of original work. Readings include Munro, Welty, Diaz, Lahiri, and others, and explore how practicing writers negotiate character, narrative structure, setting, voice, etc. Individual reading assignments are also devised on a per project basis. As the term continues, increasing amounts of time are devoted to the discussion of student work.

Note: Admission based on submitted samples of writing. For information on specific application requirements, please see the English Department's Creative Writing web page.

***English Ctr. Advanced Fiction Writing**

Catalog Number: 7175 Enrollment: Limited to 12.

Bret A. Johnston

Half course (fall term; repeated spring term). Th., 4–7 p.m. EXAM GROUP: 18

Writers will become familiar with more sophisticated aspects (technical and conceptual) of writing fiction, beginning with short exercises and moving toward the completion and revision of original work. Readings include Munro, Welty, Diaz, Lahiri, and others, and we will explore how practicing writers negotiate character, narrative structure, setting, voice, etc. Individual reading assignments are also devised on a per project basis. As the term continues, increasing amounts of time are devoted to the discussion of student work. Students in this course will be expected to revise work often and to a very high standard.

Note: Admission based on submitted samples of writing. For information on specific application requirements, please see the English Department's Creative Writing web page.

***English Cwar. Advanced Fiction Workshop**

Catalog Number: 88347 Enrollment: Limited to 12.

Amy Hempel

Half course (fall term; repeated spring term). Th., 4–7 p.m.

Members of the advanced fiction workshop will aim to raise their levels of performance on the page, largely through guided revisions and continued reading to see the ways outstanding writers solved similar problems. Two complete stories with revisions are required during the term, as well as weekly critiques of colleagues' work.

Note: Admission based on submitted samples of writing. For information on specific application requirements, please see the English Department's Creative Writing web page.

***English Cwfr. Introductory Fiction Workshop**

Catalog Number: 21718 Enrollment: Limited to 12.

Amy Hempel

Half course (fall term; repeated spring term). W., 4–7 p.m.

An introduction to the short story with emphasis on amplifying the idea of what a story can be. We will look at a range of contemporary narrative strategies that exploit--in the best sense of the word--voice, character, place, logic, and (always) language. Readings will include Barry Hannah, Tillie Olsen, Leonard Michaels, Mark Richard, Mary Robison, Yasunari Kawabata, and



selected poets. Short assignments will aim to strengthen writing at the sentence level, and suggest personal ways into the largest concerns. Students should expect to complete and revise two stories, and be prepared to discuss the work of colleagues each week.

Note: Admission based on submitted samples of writing. For information on specific application requirements, please see the English Department's Creative Writing web page.

II. Literature

Primarily for Undergraduates

Common Ground Courses (two hours of lecture, one hour of discussion section weekly). Preference is given to English concentrators.

***English 40. Arrivals**

Catalog Number: 62547 Enrollment: Limited to 27.

Daniel G. Donoghue

Half course (spring term). Tu., Th., 1:30–3. EXAM GROUP: 15, 16

An introduction to major works in English literature from *Beowulf* through the seventeenth century, the course will explore various ways that new identities are created through the cultural forces that shape poets, genres, and group identity. We will hone close reading skills and introduce rhetorical tropes. Our study of the language will culminate in a new text of a Middle English play, which the class will produce and perform.

***English 41. Arrivals**

Catalog Number: 74158 Enrollment: Limited to 27.

James Simpson

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

Across the period 700-1700 the shapes of British culture were absorbed from different centers of Western Europe. These cultural forms are conflicted among themselves, and conflicted across time. This course will delineate the principal cultural forces (e.g. religious, political, social) that shaped England in particular. We will look to the ways in which those vibrant yet opposed forces find expression in the shape, or form, of literary works.

***English 42. Arrivals**

Catalog Number: 10234 Enrollment: Limited to 27.

Nicholas Watson

Half course (fall term). Tu., Th., at 10. EXAM GROUP: 12

A study of central genres of Old English, Middle English, and Early Modern literature in tandem with the development of ideas of nation and community, with a special emphasis on poetic narratives. Key texts include *Beowulf*, *The Canterbury Tales*, *The Faerie Queene*, *Paradise Lost*, and *The Pilgrim's Progress*.

Note: Students will also attend one of two course sections on Thursday afternoons (3-4 or 4-5).

***English 51. Poets: Ballads, Sonnets, Literary History, and Poetic Form**

Catalog Number: 80359 Enrollment: Limited to 27.

Peter Sacks



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

This course will study a range of ballads and sonnets from the Fourteenth to the Twenty-First Century. We will explore questions of poetic form and literary history within two of the most enduring yet continuously evolving kinds of poetry in English and in other languages.

***English 52. Modernist Poets: Eliot, Williams, Stevens, Pound - (New Course)**

Catalog Number: 40936 Enrollment: Limited to 27.

Leland P. de la Durantaye

Half course (fall term). Tu., Th., at 10. EXAM GROUP: 12

This is an introductory course in modern poetry.

***English 56. Narrative Poetry, 1667-1824: Politics, History, Satire - (New Course)**

Catalog Number: 56043 Enrollment: Limited to 27.

Andrew Warren

Half course (fall term). Tu., Th., at 12. EXAM GROUP: 14

This course begins with Milton's epic, *Paradise Lost*, and then turns to eighteenth-century mock epics and verse narratives. Poets shall include Blake, Coleridge, Wordsworth, Shelley, Byron and Keats. The course will also serve as an introduction to the Romantic era.

***English 62. Diffusions: Castaways and Renegades**

Catalog Number: 37743 Enrollment: Limited to 27.

John Stauffer

Half course (fall term). W., 3-5pm. EXAM GROUP: 8, 9

This course traces the extraordinary rise of American literature from the nation's founding through the early twentieth century. Focusing on the "outsider," we examine how American literature gave definition to a culture that was distinct from Europe. Along the way we explore a number of themes: the dilemma of democratic ideals co-existing with slavery and oppression; women as symbols of America; and the relationship between domestic and national fictions. Authors include Irving, Douglass, Melville, Stowe, Whitman, James, Twain, Chesnutt, Wharton, others.

***English 63. Diffusions: The Global Bildungsroman - (New Course)**

Catalog Number: 25829 Enrollment: Limited to 27.

Amanda Claybaugh

Half course (spring term). M., W., at 1; Th., at 3; Th., at 4. EXAM GROUP: 6

Established by Goethe at the end of the eighteenth century, the bildungsroman (or novel of education) has since travelled around the world; this course will explore its appearance in Britain, the United States, and Nigeria, focusing on the new forms that the genre takes as it enters these new cultures and interacts with their existing literary traditions. Authors may include: Achebe, Adichie, Dickens, Ellison, Eliot, Emecheta, Ishiguro, Kunkel, Plath, and Roth.

***English 71. Shakespeares: Talking Back to Shakespeare - (New Course)**

Catalog Number: 92458 Enrollment: Limited to 27.

Elizabeth Dyrud Lyman

Half course (spring term). M., W., at 2. EXAM GROUP: 7

This is an introductory Shakespeare course.



Undergraduate Seminars

These introductions to the specialized study of literature are restricted to undergraduates and have enrollments limited to 15. Preference is given to English concentrators.

***English 90ab. American "Realists": O'Neill, Williams, Miller: Seminar**

Catalog Number: 1026 Enrollment: Limited to 15.

Elizabeth Dyrud Lyman

Half course (fall term). W., 4–6; M., 7–10 p.m. EXAM GROUP: 9

An in-depth look at drama by American playwrights who blended the "isms" of their European predecessors with the idioms of their native soil to create a mature drama deceptively known as "American Realism." Works by Eugene O'Neill, Tennessee Williams, Arthur Miller, and several of their contemporaries. Focus is on the plays themselves -- their literary and dramatic innovations, their philosophical and cultural preoccupations, and the stylistic and interpretative challenges they posed.

***English 90ap. Theology, Aesthetics, and History: Protestantism in American Literature: Seminar**

Catalog Number: 5850 Enrollment: Limited to 15.

Jason W. Stevens

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

This course will cover American texts from the Puritan settlement through the present, with emphasis on the twentieth century. We will explore the rapid growth of Protestantism into a cultural logic which has been variously revised, conserved, caricatured, repudiated, and resurrected over the course of the American past. Authors include Jonathan Edwards, William Ellery Channing, Hawthorne, Emerson, Catherine Sedgewick, Sherwood Anderson, Sinclair Lewis, H.L. Mencken, Flannery O'Connor, Marilynne Robinson, and James Baldwin.

***English 90be. The Bible and English Authors: Shakespeare, Milton, Melville - (New Course)**

Catalog Number: 37059 Enrollment: Limited to 15.

Gordon Teskey

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

A course on the transformations of biblical ideas in King Lear, Paradise Lost and Moby Dick.

***English 90bp. British Women Poets: Seminar - (New Course)**

Catalog Number: 97868 Enrollment: Limited to 15.

Andrew Warren

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

Although the Romanticism has typically been overshadowed by definitions of masculine "genius," that time hosted a vibrant community of women poets. Felicia Hemans, for example, often outsold Lord Byron in the bookshops. This course will examine eighteenth-century women poets, particularly Anna Barbauld and Charlotte Smith; Romantic-era poets such as Joanna Baillie, Felicia Hemans, and L.E.L.; non-verse works by Mary Wollstonecraft, Ann Radcliffe and Dorothy Wordsworth; and finally the Victorians, Elizabeth Barrett Browning and Christina Rossetti.



***English 90cd. Reading Dickens: Seminar - (New Course)**

Catalog Number: 82761 Enrollment: Limited to 15.

Leah Price

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

Great Expectations, *David Copperfield*, and *Our Mutual Friend*, read alongside nineteenth-century dramatic and twentieth-century filmic adaptations and Dickens's own scripts; and two later novels responding to Dickens (*Bradbury*, *Fahrenheit 451* (1953); Lloyd Jones, *Mister Pip* (2006)); and Victorian journalistic and ethnographic discussions of reading. Assignments both critical (a research paper) and creative (adapting a Dickens novel into a different medium).

***English 90hs. Satire: Augustan and Modern: Seminar**

Catalog Number: 8795 Enrollment: Limited to 15.

Michael Shinagel

Half course (spring term). M., 3–5. EXAM GROUP: 8, 9

A study of satire in poetry, prose fiction, and drama. Authors covered are Blake, Swift, Pope, Johnson, Gay, Voltaire, Orwell, Brecht, Vonnegut, and West.

***English 90kb. Poems of Seamus Heaney and Thomas Hardy - (New Course)**

Catalog Number: 22333 Enrollment: Limited to 15.

Elaine Scarry

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

Written a century apart, the poems of Seamus Heaney and Thomas Hardy create an urgent call and response between earth and under-earth. The poets share metrical virtuosity, compressed lyric forms, the unfolding of personal history within public crisis and transformation, and the recognition that the acuity of sentience - the daily practice of exquisitely precise perceptual acts - is the ethical center of our brief stay above ground.

***English 90lj. Literature, Justice, and Rights in the Age of Revolution - (New Course)**

Catalog Number: 47342 Enrollment: Limited to 15.

Melissa Ganz

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

In the wake of the American and French Revolutions and amidst growing calls for social and legal change, British writers began exploring political questions with new urgency. In this course, we read a range of texts published between 1780 and 1820, examining the ways that they both participated in and were shaped by debates about freedom, equality, justice, authority, toleration, cruelty, and pain. Likely authors include Burke, Wollstonecraft, Equiano, More, Barbauld, Edgeworth, Godwin, Austen, Wordsworth, and Mary Shelley. Secondary readings by historians, philosophers, and literary critics including Gary Kelly, Thomas Haskell, Lynn Hunt, and Martha Nussbaum.

***English 90mm. 1850s: The Making of Modernity in Western Culture: Seminar - (New Course)**

Catalog Number: 67654 Enrollment: Limited to 15.

John Stauffer

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

This transnational course explores the emergence of modern life in the west, reflected by the



canonical texts published (or translated into English) from 1850 to 1861. Points of focus include the aesthetics of freedom and bondage; the rise of realism and liberalism; the intersection between consciousness and material conditions; conceptions of progress, history, and desire. Authors include Marx, Darwin, Mill, Lincoln and Douglas; Tennyson, Whitman, Dickens; Douglass, Jacobs, Melville, Hawthorne, Thoreau, Emerson; Balzac, Flaubert, Turgenev, Dickens, Eliot.

***English 90pb. Dramatic Structure and Analysis: Seminar**

Catalog Number: 4661 Enrollment: Limited to 15.

Robert Scanlan

Half course (fall term). Th., 1–4. EXAM GROUP: 15, 16, 17

Introduces the Plot-Bead technique for analyzing and/or constructing artistic forms that are performance events. Several artworks, most of them plays, but some poems and one musical composition, are studied in detail in the light of depth action analysis and codification of the artifact's time-form in a plot-bead diagram. The roots of these analytical techniques (which have practical utility for artists) are Aristotelian, but are reflected in 21st-century practice.

***English 90qe. Pinter Churchill Stoppard Frayn: Seminar**

Catalog Number: 9595 Enrollment: Limited to 15.

Elizabeth Dyrud Lyman

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

An in-depth look at the four most influential British playwrights of the late twentieth century. Readings include generous selections of each author's plays, as well as novels, screenplays, journalism, and essays. Emphasis is on recurring themes that haunt these authors' works, and the innovative techniques they develop to convey them.

***English 90qp. 20th-Century American Poetry: Seminar**

Catalog Number: 6694 Enrollment: Limited to 15.

Peter Sacks

Half course (spring term). W., 3–5. EXAM GROUP: 8, 9

This course attends to the work of several American poets whose careers span much of the second half of the 20th century. Poets include Elizabeth Bishop, James Wright, Randall Jarrell, Adrienne Rich, A. R. Ammons, Frank O'Hara, John Ashbery, and others.

***English 90sb. Samuel Beckett's Plays and Prose: Seminar**

Catalog Number: 3487 Enrollment: Limited to 15.

Robert Scanlan

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

Studies systematically the arc of Samuel Beckett's literary career, with particular emphasis on Beckett's stage and video plays. The course proposes the idea of a "stable habitation for the Self" as one way of understanding both Beckett's thematic *matière* and his astonishing aesthetic innovations in three media: stage, page, and video screen. Video resources supplement reading and discussion of texts, and local productions of the plays are studied when available.

***English 90sx. Gender Difference and Sexual Relation in Medieval Literature - (New Course)**



Catalog Number: 16132 Enrollment: Limited to 15.

Julie Walsh Orlemanski

Half course (fall term). W., 2–4. EXAM GROUP: 7, 8

From courtly love poetry to saints' lives, from scientific treatises to *The Canterbury Tales*, the imaginative writings of the Middle Ages are full of gender identities that surprise in their strangeness but are closely linked to today's sexual norms and fantasies. Course readings include medieval chivalric, religious, scientific, and literary writings and reflect how sexuality and subjectivity are shaped in tandem as well as how sexuality can disrupt and transform stable selves.

***English 90vw. Virginia Woolf and J.M. Coetzee - (New Course)**

Catalog Number: 26034 Enrollment: Limited to 15.

Aarthi Vadde

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

Two notoriously difficult, yet hugely influential writers who have pushed the limits of the novel form. This course will be organized around theoretical contexts that both writers address, often in divergent but resonant ways. Such contexts include temporality and perception; speech and silence; passivity and aggression. We will read four novels by each writer and some secondary material.

***English 90wc. George Eliot and William Dean Howells: Seminar**

Catalog Number: 9780 Enrollment: Limited to 15.

Amanda Claybaugh

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

In addition to being the most successful novelists of their day, Eliot and Howells were also the most influential critics. This course focuses on their championing of literary realism and on their experiments in narration and novelistic form, as well as their respective involvements in suffrage campaigns and the Haymarket Affair. Novels to include *Adam Bede*, *Middlemarch*, *Daniel Deronda*, *A Modern Instance*, *The Rise of Silas Lapham*, and *A Hazard of New Fortunes*.

***English 90ws. Wilde and Shaw: Seminar - (New Course)**

Catalog Number: 31239 Enrollment: Limited to 15.

Martin Puchner

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

The two Irishmen living in London covered the gamut of modern writing, including art criticism, essay, dialogue, novella, aphorism, pamphleteering, and, of course, drama.

Note: This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

***English 90xz. The Art of the Essay: Seminar**

Catalog Number: 32333 Enrollment: Limited to 15.

Leland P. de la Durantaye

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

We will study famous essayists from Montaigne to Johnson, from Hazlitt to Emerson, from Guy Davenport to David Foster Wallace. We will study essays by writers more famous for their work



in other genres such as Eliot, Pound, Stevens, and Nabokov, as well as ancient and modern masters in the genre. Students will be asked to try their hands at a diverse series of essay types.

Tutorials, for Undergraduates Only

***English 91r. Supervised Reading and Research**

Catalog Number: 1464

Daniel G. Donoghue and members of the Department

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

Individual instruction in subjects of special interest that cannot be studied in regular courses.

Note: A graded course. May not be taken more than twice and only once for concentration.

***English 98r. Tutorial—Junior Year**

Catalog Number: 3831

Daniel G. Donoghue and members of the Department

Half course (fall term; repeated spring term). Hours to be arranged. EXAM GROUP: Fall: 8

Supervised small group tutorial in the study of literature in English.

Note: Limited to honors concentrators.

***English 99r. Tutorial—Senior Year**

Catalog Number: 3901

Daniel G. Donoghue and members of the Department

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

Supervised individual tutorial in an independent scholarly or critical subject.

Note: Two terms required of all thesis honors seniors. To enroll, students must submit for approval a Thesis Proposal.

Prerequisite: Satisfactory completion of one term of English 98r, completion of an undergraduate seminar (90-level) taken in the junior year or earlier, and faculty approval of proposed thesis topic.

For Undergraduates and Graduates

English 101. The History and Structure of the English Language

Catalog Number: 1987

Daniel G. Donoghue

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

An introduction to the changes in the English language from the earliest centuries to the present. It explores such topics as the impact of political and economic changes, literacy, attitudes toward grammar, the interactions of social class and gender, and American English. Knowing more about the language gives critical and creative writers more command over the medium of their craft; it also sharpens one's perceptions as a reader.

English 102d. Anglo-Saxon Literature and Culture: Literature from the time of King Alfred - (New Course)

Catalog Number: 66863

Daniel G. Donoghue



Half course (fall term). Tu., Th., 1:30–3. EXAM GROUP: 15, 16

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 Anglo-Saxon Chronicle, Bede's History of the English People, riddles, The Seafarer, and other Old English lyrics.
Note: Fulfills the College language requirement and the English Department's Foreign Literature requirement if its continuation English 103 is also completed.

English 103g. Anglo-Saxon Language and Culture: Working with Manuscripts

Catalog Number: 0326

Daniel G. Donoghue

Half course (spring term). Tu., Th., at 11. EXAM GROUP: 13

The task of translation will be supplemented by consistent attention to the manuscript contexts of Old English literature. The texts will include selections from the Anglo-Saxon Chronicle, *Genesis*, the Exeter Book *Riddles*, *Beowulf*, and others. The course will guide students through basic principles of manuscript study and will culminate in a collaborative edition of an Old English text.

Note: Fulfills the College language requirement and the English Department's Foreign Literature requirement.

Prerequisite: Honors grade in English 102 or the equivalent.

English 110 (formerly *Humanities 10). An Introductory Humanities Colloquium

Catalog Number: 3983

Stephen J. Greenblatt and Louis Menand

Half course (spring term). Tu., 11:30-1. EXAM GROUP: 13, 14

The course is designed for students interested in concentrating in a Humanities discipline. We cover major works of literature and ideas from Homer's *Odyssey* to Joyce's *Ulysses*. Many of the texts have thematic connections; we hope that all of them will stimulate interest in the kinds of issues addressed in humanistic studies.

Note: Ninety-minute lecture-discussion, plus one-hour section led by the instructors. This course, when taken for a letter grade, meets the General Education requirement for Aesthetic and Interpretive Understanding or the Core area requirement for Literature and Arts A.

English 115b. Chaucer: *The Canterbury Tales*

Catalog Number: 2945

Nicholas Watson

Half course (fall term). Tu., Th., at 1. EXAM GROUP: 15

A study of the most famous work of English literature before Shakespeare, both as a work of art and as a product of its place (London) and time (the 1390s).

English 124d. Shakespearean Tragedy - (New Course)

Catalog Number: 19628

Stephen J. Greenblatt

Half course (fall term). M., W., at 10; Th., at 6; W., at 6. EXAM GROUP: 3

We will read the succession of tragedies from the early *Titus Andronicus* and *Romeo and Juliet* to the late *Antony and Cleopatra* and *Coriolanus*, with particular attention to the astonishing



sequence of *Hamlet*, *Othello*, *King Lear*, and *Macbeth*. Part of the course will involve screening and discussion of film, as well as glimpses of modern adaptations. Readings will include theories of tragedy, as well as Shakespearean sources and modern criticism.

Note: When taken for credit, this course fulfills the departmental Shakespeares Common Ground course requirement. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

English 132. Metaphysical Poetry

Catalog Number: 0233

Marjorie Garber

Half course (fall term). M., W., at 11; Th., at 11; W., 7–9 p.m. EXAM GROUP: 4

Major poets and poems of the early seventeenth century, one of the greatest eras in English verse, considered together with the theory, criticism and practice of lyric. The works of John Donne, Ben Jonson, George Herbert, Andrew Marvell, Robert Herrick, Richard Crashaw, and others will be viewed both in the context of their time and in their centrality for the shaping of modern literary theory and aesthetics.

English 134. The Gothic Tradition, 1764-1832 - (New Course)

Catalog Number: 68445

Andrew Warren

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

The Gothic novel is more than just the predecessor of *Twilight*; it's also an astute commentary upon a turbulent era in England's history. This course will examine the Gothic genre through the lens of that time's political preoccupations (the French Revolution, the Napoleonic Wars) and aesthetic theories (e.g., "the sublime"). Readings will include novels by Walpole, Beckford, Radcliffe and Lewis; Romantic poetry; satires by Austen and Peacock; and philosophical works by Burke and Schiller.

English 141. The 18th-Century Novel

Catalog Number: 8683

Melissa Ganz

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

This course examines the novel's emergence and development in England from Aphra Behn to Jane Austen. We consider distinctive features of the new genre, exploring novelists' attempts to distinguish their works from non-fiction texts—letters, journals, criminal autobiographies, and travelogues—even as they draw upon them. We also trace novelists' fascination with topics such as sex and gender, slavery and race, money and market culture, sympathy and sensibility, and privacy and personal identity. And we consider eighteenth-century debates (still relevant today) about the dangers and pleasures of novel-reading.

Note: This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

English 150. Wordsworth and the Shelleys - (New Course)

Catalog Number: 10722

Andrew Warren

Half course (spring term). Tu., Th., at 12. EXAM GROUP: 14



The Romantic poets are typically split into two camps: the First Generation (Wordsworth, Coleridge) and Second Generation (Byron, Shelley, Keats). This division exists not only because the latter were born later and died younger, but also because of stark political, poetic and philosophical differences. Our course will examine two poets who perhaps best exemplify the divide: William Wordsworth and Percy Shelley. We shall also read several works by Mary Shelley, particularly *Frankenstein* and her travelogues.

English 151. The 19th-Century Novel

Catalog Number: 8396

Elaine Scarry

Half course (spring term). Tu., Th., at 1. EXAM GROUP: 15

Realism and the problem of consciousness, social knowledge, mobility, the city, and the fantastic within experience. The ethos of self-construction and its recognition of childhood; the irrational, the accidental, and the unconscious. Binary structures, the biographical and the social form of fiction. Austen's *Emma*, Emily Brontë's *Wuthering Heights*, Mary Shelley's *Frankenstein*, Eliot's *Adam Bede*, Dickens's *Bleak House*, Stevenson's *Dr. Jekyll and Mr. Hyde*, Hardy's *Tess of the d'Urbervilles* and *Mayor of Casterbridge*.

Note: This course, when taken for a letter grade, meets the General Education requirement for Aesthetic and Interpretive Understanding or the Core area requirement for Literature and Arts A.

English 157. The Classic Phase of the Novel

Catalog Number: 4786

Philip J. Fisher

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

A set of major works of art produced at the peak of the novel's centrality as a literary form: *Sense and Sensibility*, *Madame Bovary*, *Anna Karenina*, *Middlemarch*, *The Brothers Karamazov*, *Buddenbrooks*. Society, family, generational novels and the negations of crime and adultery; consciousness and the organization of narrative experience; the novel of ideas and scientific programs; realism, naturalism, aestheticism and the interruptions of the imaginary.

Note: Graduate Section. This course, when taken for a letter grade, meets the General Education requirement for Aesthetic and Interpretive Understanding or the Core area requirement for Literature and Arts A.

English 158. Crime and Punishment in English Fiction - (New Course)

Catalog Number: 77556

Melissa Ganz

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

From thieves and murderers to bigamists and terrorists, criminals appear with unusual frequency in English fiction. Crime narratives from the eighteenth through the twentieth centuries reveal changing literary conventions as well as changing ideas about the causes and consequences of criminal acts. Special attention to the implications of criminality for literary form, such as the ways in which novels incorporate and imitate legal documents and modes such as confessions, cases, and trials. Other topics include the working of the criminal mind; the reliability of testimony and evidence; the connections among gender, empire, and crime; and the relationship between law and literature. Authors include Defoe, Dickens, Stevenson, Doyle, Conrad, Peter Carey, and Margaret Atwood.



***English 159. The Reflection of Reality: Novels of the 19th and 20th-Century**

Catalog Number: 4598

Leland P. de la Durantaye

Half course (spring term). Tu., Th., at 11. EXAM GROUP: 13

This course will focus on the reflection and refraction of reality in modern novels of the last century and a half. A number of famous novels will be carefully studied for their conception of reality, and the best means of conveying that reality to the reader. We will read novels by Flaubert, George Eliot, Henry James, Virginia Woolf, Thomas Mann, Samuel Beckett, Vladimir Nabokov, Philip Roth, and Ian McEwan.

Note: This course, when taken for a letter grade, meets the General Education requirement for Aesthetic and Interpretive Understanding or the Core area requirement for Literature and Arts A.

English 162m. Modernism as Theatre - (New Course)

Catalog Number: 15341

Daniel Albright

Half course (fall term). M., 2–4. EXAM GROUP: 7, 8

This course considers theatre in the context of literature, music, visual arts, and theories of acting.

[English 165. Proust, Joyce, Woolf: Aestheticism and Modernism]

Catalog Number: 1827

Philip J. Fisher

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

Topics include: modernism; aesthetic experience; the life of art; the city; and novelistic form; the moment and memory within temporal experiences. Joyce, *Dubliners* and *Ulysses*; Proust, *Swann's Way*; and *Within a Budding Grove*; Woolf, *Mrs. Dalloway* and *To the Lighthouse*; Kawabata, *Snow Country*. Writings of Pater, Simmel, T.S. Eliot, and sections from *The Pillow Book* of Sei Shonagon.

Note: Expected to be given in 2011–12. Graduate section offered. This course, when taken for a letter grade, meets the General Education requirement for Aesthetic and Interpretive Understanding or the Core area requirement for Literature and Arts A.

English 168. How to Scandalize Readers: Vladimir Nabokov's English Novels - (New Course)

Catalog Number: 45555

Leland P. de la Durantaye

Half course (fall term). Tu., Th., at 11. EXAM GROUP: 13

We will study the depth and breadth of Vladimir Nabokov's English novels. Special attention will be paid to the riddling and the ribald elements in Nabokov's work and the way that they have scandalized readers. Special attention will be given to Nabokov's irreverent and idiosyncratic opinions on the nature of art and the task of the critic.

English 172. New Immigrant Narratives - (New Course)

Catalog Number: 38231

Glenda R. Carpio

Half course (fall term). M., W., at 2. EXAM GROUP: 7



During the last 50 years, the United States has received immigrants from many Latin American, Caribbean, African and Asian countries in contrast to previous waves of immigration which were primarily from northern or eastern Europe. This course will focus on the Latina/o experience, which includes but also challenges immigrant discourses. It will also insist on a comparative approach and is also rooted in a historicized exploration of immigrant narratives in American literature.

English 172d. The Nineteenth-Century American Novel

Catalog Number: 9722

Amanda Claybaugh

Half course (fall term). M., W., at 1. EXAM GROUP: 6

The rise of the nineteenth-century American novel from its origins (Irving, Cooper), through the American Renaissance (Hawthorne, Stowe, Melville), to realism (James, Howells, Twain) and naturalism (Dreiser, Wharton). This course will attend to the historical and cultural contexts in which these novels were written, but it will focus equally on novelistic form.

Note: This course, when taken for a letter grade, meets the General Education requirement for Aesthetic and Interpretive Understanding or the Core area requirement for Literature and Arts A.

English 174f. Faulkner: The Major Works

Catalog Number: 2652

Jason W. Stevens

Half course (spring term). M., W., at 12; Tu., at 12; W., at 4; Th., at 12. EXAM GROUP: 5

William Faulkner may be the greatest American novelist of the 20th Century. This course examines his fiction in the contexts of modernism, Southern Gothic, naturalism, race relations, and religion. Texts will include *The Sound and the Fury*, *Absalom, Absalom!*, *Light in August*, *As I Lay Dying*, *Go Down Moses*, and the Snopes Trilogy.

English 178x. The American Novel: Dreiser to the Present

Catalog Number: 2168

Philip J. Fisher

Half course (spring term). M., W., (F.), at 11. EXAM GROUP: 4

A survey of the 20th-century novel, its forms, patterns of ideas, techniques, cultural context, rivalry with film and radio, short story, and fact. Wharton, *Age of Innocence*; Cather, *My Ántonia*; 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*; Salinger, *Catcher in the Rye* and stories; Ha Jin, *Waiting*. Stories by James, London, Anderson, Gaitskill, Wallace, Beattie, Lahiri and Ford.

Note: This course, when taken for a letter grade, meets the General Education requirement for Aesthetic and Interpretive Understanding or the Core area requirement for Literature and Arts A.

English 180. Modern American Crime Narratives

Catalog Number: 4468

Jason W. Stevens

Half course (fall term). Tu., Th., at 11. EXAM GROUP: 13

We will cover American crime narratives, emphasizing the hard-boiled and noir fiction that flourished between the Jazz Age and the Cold War as well as the police procedural and the true



crime novel. Popular texts will be approached as examples of craft art which have provided paradigms for major American authors, including Faulkner and Fitzgerald. Sources will include films such as *The Godfather*, *Blade Runner*, and *The Dark Knight*.

Note: This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

English 186. American Literary Expatriates in Europe - (New Course)

Catalog Number: 16923

Glenda R. Carpio

Half course (spring term). Tu., Th., at 11. EXAM GROUP: 13

This course explores the fiction and travel literature produced by American writers living in Europe, from Henry James to the present.

English 190a. Australian Fiction - (New Course)

Catalog Number: 84958

Robert Nicholas Jose (University of Adelaide)

Half course (spring term). W., 1–3; M., at 1; Tu., at 2.

An introduction to the literature of Australia through key works of modern and contemporary fiction. Authors include Christina Stead, Patrick White, David Malouf, Helen Garner, Peter Carey and Alexis Wright. We'll consider their distinctive approaches and concerns, the way they reinvent the novel in response to particular conditions and commitments-national, expatriate, feminist, indigenous, and the changing local and international contexts of their work.

English 191. Asia-Pacific Conversations

Catalog Number: 55555

Robert Nicholas Jose (University of Adelaide)

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

Recent writing from or about Asia and the Pacific that engages creatively with questions of freedom and exile, self-transformation and social critique, indigeneity and the right to speak and be heard. Authors-from India, Sri Lanka, China, South Korea, Japan, Vietnam, New Zealand and Australia-include Ko Un, Michelle de Kretser, Gao Xingjian, Patricia Grace, Ha Jin, Rohinton Mistry, Haruki Murakami, Les Murray and Nam Le. How does dialogue with their work change our understanding of the potential of literature in the contemporary world? Students are asked to respond critically, with options for creative responses to the set texts.

English 194. Haunting Homes: Major Themes in Transnational Anglophone Literature - (New Course)

Catalog Number: 23124

Aarthi Vadde

Half course (spring term). Tu., Th., at 3. EXAM GROUP: 17

Drawing on a diverse selection of poems, novels, short stories, drama, and essays, this course uses the paradigm of the nation as a haunting home to introduce students to classic and emerging themes within Anglophone literary studies. Themes include, but are not limited to: civilization and barbarism; revolution and nation-building; orientalism and hybridity; gender and sexuality; migration and memory; globalization and environmentalism. Authors: Salman Rushdie, J.M. Coetzee, Tsitsi Dangarembga, Brian Friel, Michael Ondaatje, among others.



English 195. The Modern Novel in a Global Context - (New Course)

Catalog Number: 74646

Aarthi Vadde

Half course (fall term). Tu., Th., at 3. EXAM GROUP: 17

This course approaches the novel as a world genre formally responsive to the conflicts of empire, decolonization, and globalization. Taking “the personal as political” as our starting point, we will examine how boundary-crossing intimacies, long-distance connections, and cultural curiosity become part of the novel’s transnational development. Major authors from the modernist to contemporary eras, including Conrad, Forster, Woolf, Tayeb Salih, Amitav Ghosh, W.G. Sebald, Arundhati Roy.

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

Catalog Number: 4750

Werner Sollors

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

How have migration and ethnicity been imagined and represented? And how have aesthetic representations of melting pot or multiculturalism affected laws governing migration, the real lives of migrants and indigenous populations, and the changing self-conception of the United States? Such questions, complemented by ethnic theory, inform discussions of books ranging from *The Life Stories of Undistinguished Americans* and Israel Zangwill’s *The Melting-Pot* to contemporary literature.

Note: This course, when taken for a letter grade, meets the General Education requirement for either Aesthetic and Interpretive Understanding or United States in the World, but not both. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

English 198. Porgy and Bess - (New Course)

Catalog Number: 47137

Marjorie Garber and Diane Paulus

Half course (spring term). M., 4–6. EXAM GROUP: 9

This experimental course offers a case study on the musical *Porgy & Bess*. Students will examine the multiple iterations of “P&B” (novel, play, film, etc.), perform archival research, critically engage with the history and culture of the American musical, and ask the question what would it mean to adapt *Porgy & Bess* today. Topics to include: adaptation theory and practice; performance studies; gender, race, class, and identity; and media studies.

Note: This course, when taken for a letter grade, meet the General Education requirement for Aesthetic and Interpretive Understanding or the Core area requirements for Literature and Arts B.

English 199. Expertise - (New Course)

Catalog Number: 98659

Marjorie Garber and David Kennedy (Harvard Law School)

Half course (spring term). Tu., 1–3; W., at 1. EXAM GROUP: 15, 16

How is expertise produced, disseminated, controlled, challenged? What evidence demonstrates expertise? What part of expertise is knowledge, common-sense, analytics, lifestyle, character?



How is expertise written into power or submission? What is the work of disciplines or professions in reproducing practices of criticism and professional judgment? What functions as expertise in law, economics, the humanities, the arts, or literary studies? How is an expert different from a pundit, a scholar, or a critic?

Cross-Listed Courses

[**Aesthetic and Interpretive Understanding 14 \(formerly Literature and Arts C-56\). Putting Modernism Together**](#)

[**Aesthetic and Interpretive Understanding 20 \(formerly Literature and Arts A-22\). Poems, Poets, Poetry**](#)

[**Aesthetic and Interpretive Understanding 38. The English Language as Literature - \(New Course\)**](#)

[**Aesthetic and Interpretive Understanding 42. Literature and Revolution: Great Books in Moments of Cultural Transformation**](#)

[**African and African American Studies 131. African-American Literature to the 1920s**](#)

[***Freshman Seminar 31n. Beauty and Christianity**](#)

[***Freshman Seminar 33s. Narrative Before the Novel - \(New Course\)**](#)

[***Freshman Seminar 33x. Complexity in Works of Art: Ulysses and Hamlet**](#)

[***Freshman Seminar 38j. Medicine and Literature**](#)

[***History of Science 292. Gravity's Rainbow: Seminar - \(New Course\)**](#)

[**\[Medieval Studies 114. The Medieval Imagination: Visions, Dreams, and Prophecies\]**](#)

[**United States in the World 23 \(formerly English 177\). Art and Thought in the Cold War**](#)

Primarily for Graduates

[***English 202. Beowulf and its Contexts: Graduate Seminar - \(New Course\)**](#)

Catalog Number: 46346

Joseph C. Harris and Daniel G. Donoghue

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

The contexts include the literary-historical (for example, sources and analogues; genre; oral tradition), the codicological (including the contribution of recent paleography to dating the poem), the metrical (including poetics generally), and the philological (language, text, specific cruces). Plenty of room will be saved for interpretation of several kinds (which might include religion, myth, politics, the poem's value to audiences of various periods). A third hour of basic translation to be arranged for interested students.

Note: Open to qualified undergraduates.

[***English 205. Adam and Eve: Graduate Seminar - \(New Course\)**](#)

Catalog Number: 33944

Stephen J. Greenblatt and Joseph Koerner

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

Explores representations of Adam and Eve's Fall 1400-1700, with an emphasis on differing constraints and possibilities of the verbal and visual arts. Texts include bible and bible commentaries, medieval mystery plays, and 17th century poetry, especially Milton. Artists include Bosch and Dürer. Co-taught with Joseph Koerner.



***English 206. The Bible - (New Course)**

Catalog Number: 52166

Gordon Teskey

Half course (spring term). M., 4–6. EXAM GROUP: 9

A course of directed reading through the Bible, introducing biblical imagery necessary to the comprehension of English poetry.

***English 211. The Making of the Early English Canon 1350-1950: Graduate Seminar - (New Course)**

Catalog Number: 70359

Nicholas Watson

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

A study of medieval literary canon-formation through history, from Chaucer's self-canonization to the early modern and moderns search for alternative origins to the English literary tradition from the ballad to *The Book of Margery Kempe*.

***English 224. Shakespeare and Myth: Graduate Seminar - (New Course)**

Catalog Number: 40145

Marjorie Garber

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

A consideration of myth criticism and theory (early modern, modern, postmodern) together with Shakespeare's plays.

***English 232a. Authorship, Genre, and Culture in Early Modern England**

Catalog Number: 8379

Barbara K. Lewalski

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

The seminar will explore various concepts of authorship in several genres of poetry and prose in the Early Modern period. We will consider how and why certain kinds of works emerge within or are prompted by various institutions and circumstances, giving special attention to how authors themselves represented authorship and their own roles as authors. Primary attention to Sidney, Donne, Johnson, Herbert, Wroth, and Milton.

***English 234. The Poetry of John Keats: Graduate Seminar**

Catalog Number: 2514

Helen Vendler

Half course (spring term). W., 3–5. EXAM GROUP: 8, 9

A study of most of the poetry, focusing on influences, genre-changes, poetics, and the Keatsian lexicon.

***English 259. Methods in Book History: Graduate Seminar**

Catalog Number: 1402

Leah Price and Ann M. Blair

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

Introduces students to methods and debates in the history of the book and of reading.

Note: Open to advanced undergraduates with permission of instructor.



***English 266. 'Broken English': English Language Literature in a Postmodern, Postcolonial Frame - (New Course)**

Catalog Number: 18837

Biodun Jeyifo

Half course (spring term). W., 2–4. EXAM GROUP: 7, 8

An exploration of a range of experimental writings in the English Language predicated on the varieties of englishes spoken and used as idioms of writing and performance around the world. Special attention will be paid to theoretical and critical attempts to both assimilate these currents of expression into recognizable patterns and to create new categories of analysis, appropriation and legitimation.

***English 276x. African-American Literary Tradition: Graduate Seminar**

Catalog Number: 3536

Henry Louis Gates, Jr.

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

An exploration of the emergence and development of the African-American literary “tradition” from the 18th to the 20th century. Close reading of the canonical texts in the tradition, and their structural relationships are stressed.

***English 277. Religion and American Film: Graduate Seminar - (New Course)**

Catalog Number: 91667

Jason W. Stevens

Half course (fall term). W., 2–4. EXAM GROUP: 7, 8

Religion has proven a profitable, controversial subject in American cinema. This course introduces students to the topic by combining narrative analysis, film history, and religious study. Areas of inquiry include: how has the cinema’s illusionism enhanced the revivalistic power of traditional iconography? How have films shaped Americans’ perceptions of religious nationalism and empire or supported the belief in a civil religion or reinforced the ideology of a Judeo-Christian consensus?

***English 286. The Bildungsroman: Graduate Seminar - (New Course)**

Catalog Number: 55252

Amanda Claybaugh

Half course (fall term). W., 3–5. EXAM GROUP: 8, 9

A survey of the Bildungsroman, with particular attention to the scholarship on this genre and to theoretical accounts of genre more generally.

***English 289. Ideas in Literature: Graduate Seminar - (New Course)**

Catalog Number: 25038

Martin Puchner

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

The persistence of the novel of ideas and the drama of ideas demands a new understanding of literature and its relation to philosophy. Readings include Shaw, Stoppard, Pynchon, Coetzee, Stephenson, Bergson, and McCarthy.



***English 293. Solitary Reading: Prolonged Attention in Novels and Paintings: Graduate Seminar**

Catalog Number: 4166

Philip J. Fisher

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

A phenomenological study of novels and paintings; reading and seeing as aesthetic modes; segmented and prolonged attention; solitary and social experiences of works of art; intimacy and non-reciprocal intimacy; superimposition, enchantment, occupied consciousness.

Note: Open to qualified undergraduates.

***English 294z. On Beauty: Graduate Seminar**

Catalog Number: 7277

Elaine Scarry

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

Philosophic and literary accounts of beauty from Greek through modern, including Plato, Aquinas, Dante, Kant, Keats, and Rilke. In addition, the major arguments against beauty; and its stability across four objects (God, gardens, persons, and poems).

***English 298. Literary Theory in the Life of Literature: Graduate Seminar**

Catalog Number: 3464

Homi K. Bhabha

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

Interactions between concepts central to literary theory - *genre* and ‘textuality’, writing and ‘difference’, ethics and interpretation, narrative and cultural translation - and literature embodying such concerns. Barthes, Habermas, Derrida, Lacan, Carey, Forster, Ghosh, Morrison, Rushdie, others.

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, James Simpson 4791, and Nicholas Watson 3851

Half course (throughout the year). Hours to be arranged.

The Conference focuses upon dissertations in progress and other research topics of mutual concern. Membership limited to faculty members teaching or conducting research in medieval English language and literature and to graduate students working in this field.

Note: Enrollment is open to all graduate students but is required of those who have been admitted to candidacy for the PhD and who intend to work on a medieval subject.

***English 302hf. Renaissance: Doctoral Conference**

Catalog Number: 2814

Marjorie Garber 7264, Stephen J. Greenblatt 3436, Barbara K. Lewalski 7450 (on leave spring term), and Gordon Teskey 4466

Half course (throughout the year). Alternate W., at 4:15.

The Conference focuses upon dissertations in progress and other research topics of mutual



interest.

Note: Limited to faculty members teaching or conducting research in Renaissance literary studies and to graduate students working in the field. Enrollment is open to all such students, and is required of those who have been admitted to candidacy for the PhD and who intend to work on Renaissance topics.

***English 304hf. The Extended 18th-Century: Doctoral Conference**

Catalog Number: 6110

Leo Damrosch 2200 (on leave fall term), James Engell 8076 (on leave 2010-11), Leah Price 3501, and Michael Shinagel 7659

Half course (throughout the year). Hours to be arranged.

Focuses on dissertations, dissertations in progress, and research topics of mutual interest.

Note: Required of graduate students working, or intending to work, on the Restoration, 18th century, or Romanticism (the periods 1660–1830), and who have been admitted to candidacy for the PhD. Open to other students working on topics in Restoration and 18th-century literature.

***English 306hf. 19th- and 20th-Century British Literature: Doctoral Conference**

Catalog Number: 5268

Leah Price 3501

Half course (throughout the year). Hours to be arranged.

***English 308hf. Drama: Doctoral Conference**

Catalog Number: 6909

Marjorie Garber 7264, Elizabeth Dyrud Lyman 4433, and Elaine Scarry 2206

Half course (throughout the year). Hours to be arranged.

Focuses on research topics related to dramatic literature, theatre, and performance. Open to all faculty members and graduate students teaching or conducting research in the field.

***English 310hfr. American Literature and Culture: Doctoral Conference**

Catalog Number: 6235

Lawrence Buell 2655 (on leave 2010-11), Elisa New 2428 (on leave 2010-11), Werner Sollors 7424 (on leave spring term), and Joanne van der Woude 6069 (on leave 2010-11)

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 dissertations, faculty members, and visiting scholars.

***English 350. Teaching Colloquium**

Catalog Number: 8208

Marjorie Garber 7264

Half course (fall term). M., 3-5 (biweekly).

The craft of teaching (discussion, lectures, tutorials, course descriptions, syllabi). This colloquium, designed for third-year graduate students, also considers issues related to the field exam, prospectus, and other aspects of advanced graduate study in English.

Note: Required of all third-year graduate students.



***English 397. Directed Study**

Catalog Number: 6588

Members of the Department

***English 398. Direction of Doctoral Dissertations**

Catalog Number: 5968

Daniel Albright 4615, Homi K. Bhabha 4100, Lawrence Buell 2655 (on leave 2010-11), Stephen Louis Burt 5945 (on leave spring term) (fall term only), Glenda R. Carpio 4408, Amanda Claybaugh 5800, Leo Damrosch 2200 (on leave fall term), Leland P. de la Durantaye 4457, Daniel G. Donoghue 1469, James Engell 8076 (on leave 2010-11), Philip J. Fisher 1470, Marjorie Garber 7264, Henry Louis Gates, Jr. 2899, Jorie Graham 2358 (on leave fall term), Stephen J. Greenblatt 3436, Joseph C. Harris 1089, Matthew Kaiser 5443 (on leave 2010-11) (fall term only), Barbara K. Lewalski 7450, Elizabeth Dyrud Lyman 4433, Louis Menand 4752 (on leave fall term), Elisa New 2428 (on leave 2010-11), Leah Price 3501, Martin Puchner 5842, Peter Sacks 2161 (on leave fall term), Elaine Scarry 2206, Marc Shell 3176 (on leave 2010-11), Michael Shinagel 7659, James Simpson 4791, Werner Sollors 7424 (on leave spring term), John Stauffer 1006 (on leave spring term), Jason W. Stevens 5406 (fall term only), Gordon Teskey 4466 (on leave fall term), Helen Vendler 7226 (on leave fall term), Andrew Warren 6838, Nicholas Watson 3851, and Joanne van der Woude 6069 (on leave 2010-11)

Note: Normally limited to students reading specifically in the field of a proposed doctoral dissertation. Open only by petition to the Department; petitions should be presented during the term preceding enrollment, and must be signed by the instructor with whom the reading is to be done. All applicants for admission should first confer with the Director of Graduate Studies.

***English 399. Reading and Research**

Catalog Number: 1825

Members of the Department

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

Note: Conducted through regular conferences and assigned writing. Limited to students reading specifically on topics not covered in regular courses. Open only by petition to the Department; petitions should be presented during the term preceding enrollment, and must be signed by the instructor with whom the reading is to be done. All applicants for admission should first confer with the Director of Graduate Studies.

Environmental Science and Public Policy

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Committee on Degrees in Environmental Science and Public Policy



Michael B. McElroy, Gilbert Butler Professor of Environmental Studies (*Chair and Head Tutor*)
(*on leave spring term*)

Steven C. Wofsy, Abbott Lawrence Rotch Professor of Atmospheric and Environmental Science,
Area Dean for Environmental Science and Engineering (*Acting Chair*)

James G. Anderson, Philip S. Weld Professor of Atmospheric Chemistry

Michael J. Aziz, Gene and Tracy Sykes Professor of Materials and Energy Technologies

John Briscoe, Gordon McKay Professor of the Practice of Environmental Engineering in the
School of Engineering and Applied Sciences and Professor of the Practice of Environmental
Health (School of Public Health)

William C. Clark, Harvey Brooks Professor of International Science Public Policy and Human
Development, Kennedy School of Government (*Kennedy School*)

Richard T. T. Forman, Professor of Advanced Environmental Studies in the Field of Landscape
Ecology (*Design School*)

James K. Hammitt, Professor of Economics and Decision Sciences (*Public Health*)

Colleen M. Hansel, Assistant Professor of Environmental Microbiology

N. Michele Holbrook, Charles Bullard Professor of Forestry (*on leave spring term*)

Peter John Huybers, Assistant Professor of Earth and Planetary Sciences, Professor of Earth and
Planetary Sciences

Sheila S. Jasanoff, Pforzheimer Professor of Science and Technology Studies at the John F.
Kennedy School of Government (*Kennedy School*)

Jonathan Losos, Monique and Philip Lehner Professor for the Study of Latin America and
Curator in Herpetology

James J. McCarthy, Professor of Biological Oceanography

Paul R. Moorcroft, Professor of Organismic and Evolutionary Biology

Venkatesh Narayanamurti, Benjamin Peirce Professor of Technology and Public Policy

Ann Pearson, Professor of Biogeochemistry

Anne E. Pringle, Associate Professor of Organismic and Evolutionary Biology

Forest Lee Reinhardt, John D. Black Professor (*Business School*)

Peter P. Rogers, Gordon McKay Professor of Environmental Engineering (*on leave 2010-11*)

Daniel P. Schrag, Sturgis Hooper Professor of Geology and Professor of Environmental Science
and Engineering

John H. Shaw, Harry C. Dudley Professor of Structural and Economic Geology, Harvard College
Professor

Robert N. Stavins, Albert Pratt Professor of Business and Government at the John F Kennedy
School of Government (*Kennedy School*)

Martin L. Weitzman, Professor of Economics

Other Faculty Offering Instruction in Environmental Science and Public Policy

Paul R. Epstein, Instructor in Social Medicine (*Medical School*)

Calestous Juma, Professor of the Practice of International Development at the John F. Kennedy
School of Government (*Kennedy School*)

Jennifer Leaning, Francois-Xavier Bagnoud Professor of the Practice of Health and Human
Rights (*Public Health*)

Per J. Palsboll, Lecturer on Environmental Science and Public Policy



The Environmental Science and Public Policy concentration is overseen by a Standing Committee functioning as a Board of Tutors including representatives from several departments of the Faculty of Arts and Sciences and from other schools as appropriate to ensure the requisite breadth of the program.

The concentration is designed to provide a multidisciplinary introduction to current problems of the environment. It is founded on the premise that the ability to form rational judgments concerning many of the complex challenges confronting society today involving the environment requires both an understanding of the underlying scientific and technical issues and an appreciation for the relevant economic, political, legal, historical, and ethical dimensions. It offers students an opportunity to specialize in a specific area of either natural or social science relating to the environment. All students have to satisfy a core of requirements in biology, chemistry, earth and planetary sciences, economics, government, and mathematics.

Primarily for Undergraduates

Environmental Science and Public Policy 10. Environmental Policy

Catalog Number: 6383 Enrollment: Limited to 40.

John Briscoe

Half course (spring term). M., W., 2:30-4. EXAM GROUP: 7, 8

This course develops the concepts and skills needed to design effective public policy for managing interactions between environmental, social and economic systems. The course is organized around cases of real-world policy analysis, some from the US and some involving developing countries. We will examine the environmental, social and economic substance of the cases, the interests of stakeholders, the policy and political processes, the ways in which trade-offs are perceived and evaluated, and the outcomes and impacts.

Note: Intended for interested students from all concentrations.

[Environmental Science and Public Policy 78. Environmental Politics]

Catalog Number: 3613

Sheila S. Jasanoff (Kennedy School)

Half course (fall term). M., W., (F.), at 10.

An introduction to the history, organization, goals, and ideals of environmental protection in America. Examines the shift in emphasis from nature protection to pollution control to sustainability over the 20th century and develops critical tools to analyze changing conceptions of nature and the role of science in environmental policy formulation. Of central interest is the relationship between knowledge, uncertainty, and political or legal action. Theoretical approaches are combined with case studies of major episodes and controversies in environmental protection.

Note: Expected to be given in 2011–12.

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. Energy, Technology, and the Environment: Seminar]

Catalog Number: 2189

Michael B. McElroy

Half course (fall term). M., 1–4.

The seminar will provide an account of the technologies that shape our world with a perspective on how they evolved, the benefits that ensued and the environmental challenges that arose as a consequence. Topics include prospects for renewable energy and options to minimize damage from conventional sources of energy. Specific attention is directed to challenges faced by large developing economies emphasizing the need for a cooperative approach to ensure an equitable, environmentally sustainable, global future.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Science A.

***Environmental Science and Public Policy 90c. Ecology and Land-Use Planning**

Catalog Number: 3792

Richard T. T. Forman (Design School)

Half course (spring term). T., 2-5:15, including a required one-week field study, and a one-day field study.

Investigation of how local and regional human activities such as housing, agriculture, water supply, and natural resource use can be arranged in the landscape so that environmental processes are not disrupted and ecosystems are maintained for the long term. The focus is on learning and applying spatial and ecological principles to land-use planning with the intention of regional biodiversity conservation, maintenance of water quality, and addressing other environmental issues.

***Environmental Science and Public Policy 90e. Marine Conservation Biology: The Large Whales**

Catalog Number: 6879

Per J. Palsboll

Half course (spring term). W., 2:30–5. EXAM GROUP: 7, 8, 9

Conservation biology strives to describe, understand, and preserve biodiversity by applying ecological and evolutionary theory. This course will explore the moral and scientific underpinnings guiding the management of the oceans, exemplified by the large whales. Case studies focus on contemporary issues such as endangered species protection, over-harvesting and sustainable development. In particular, the course will show how genetic methods have been applied to inform the management of whales.

Note: Local field trips within New England to be arranged.

***Environmental Science and Public Policy 90f. Global Change and Human Health: Seminar**

Catalog Number: 4434

James J. McCarthy and Paul R. Epstein (Medical School)

Half course (spring term). M., 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 explores hypothesized linkages between changes in ecosystems, climate, and the epidemiology of certain infectious diseases.

[*Environmental Science and Public Policy 90j. Environmental Crises and Population Flight]

Catalog Number: 9841

Jennifer Leaning (Public Health) (Public Health, Medical School)

Half course (fall term). W., 1:30–4.

War, disaster, drought, or famine force people to flee their land. The humanitarian consequences of this loss of place and livelihood are filled with complexity, relating to the extent and permanence of environmental destruction wrought by these crises, people's attachment to their homes and ecosystems, the circumstances of departure, the destinations of refuge, and the possibilities for return. These issues will be examined through case studies and review of literature on forced migration and calamity.

Note: Expected to be given in 2010–11.

***Environmental Science and Public Policy 90p. Biotechnology, Environment and Public Policy - (New Course)**

Catalog Number: 62576

Calestous Juma (Kennedy School)

Half course (fall term). Th., 2:30–5.

While biotechnology holds the promise to meet a variety of economic needs, it is also a major source of ecological concern. Current debates over biotechnology have focused on its potential negative impacts. However, the same techniques can contribute to ecological management. This seminar examines the implications of biotechnology for global environmental management. The seminar will draw from specific case studies of the application of biotechnology and focuses on their policy and institutional implications for global environmental management. It addresses the following themes: (1) scientific and technological advances in biotechnology and sustainability; (2) social responses to the use of biotechnology; (3) application of biotechnology specific sectors such as agriculture; industry; bioenergy; bioremediation and species conservation; (4) socio-economic impacts; and (5) policy and institutional considerations. The seminar will include lectures, discussions and guest speakers from the world of practice.

***Environmental Science and Public Policy 90q. Conservation and Evolution - (New Course)**

Catalog Number: 72351

Jonathan Losos

Half course (fall term). W., 2:30–5 and a few additional hours to be arranged.

Traditionally, conservation biologists have assumed that evolution was not an important issue. However, recent realization that evolutionary change can occur rapidly has led to investigation of the importance of evolution for conservation. Additionally, other aspects of modern evolutionary biology, including genome sequencing and consideration of the phylogenetic tree-of-life, are increasingly seen as relevant. This course will explore the extent to which conservation and evolutionary biology need to be integrated to preserve the world's biological diversity.



***Environmental Science and Public Policy 90s. The Technology, Economics, and Public Policy of Renewable Energy: Seminar - (New Course)**

Catalog Number: 53953

George Pierce Baker (Business School)

Half course (spring term). W., 2:30–5.

Energy is the lifeblood of economic activity, and there is little prospect of this changing. However, the planet's stores of easily accessed fossil fuels are limited, and the climatological cost of continuing to rely on fossil fuels is high. This course examines the long run and short run prospects for renewable energy. We start by understanding the technology of hydro, solar, wind, and biomass. We then examine the economics of these technologies, and how subsidies and taxes affect their viability. Special attention will be paid to the interaction of technology, economics, and public policy.

Prerequisite: Ec 10a.

***Environmental Science and Public Policy 91r. Supervised Reading and Research**

Catalog Number: 1705

Steven C. Wofsy 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 99. Tutorial — Senior Year**

Catalog Number: 5666

Steven C. Wofsy and members of the Committee

Full course. Hours to be arranged.

Research and writing of the senior thesis under faculty direction. Senior honors candidates must take at least one term of this course while writing a thesis. The signature of the faculty adviser is required.

Ethical Reasoning



Courses in Ethical Reasoning teach students to reason in a principled way about moral and political beliefs and practices, and to deliberate and assess claims for themselves about ethical issues. Students examine the competing conceptions and theories of ethical concepts such as the good life, obligation, rights, justice, and liberty with a focus on developing the ability to assess and weigh the reasons for and against adopting them to address concrete ethical dilemmas. Students in these courses may encounter a value system very different from their own that calls attention to their own ethical assumptions.

Ethical Reasoning

Ethical Reasoning 11. Human Rights: A Philosophical Introduction

Catalog Number: 6441

Mathias Risse (Harvard Kennedy School)

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

What are human rights? Why would individuals have such rights? How can rights be universal, and what rights are universal? How can human rights rhetoric be criticized? This course will approach these and related questions philosophically, but with an eye to international politics.

Note: This course, when taken for a letter grade, meets the Core area requirement for Moral Reasoning.

[Ethical Reasoning 12. Political Justice and Political Trials]

Catalog Number: 5064

Charles S. Maier (History)

Half course (fall term). W., 2–4, and a weekly section to be arranged.

Criminal trials have served throughout history to enforce revolutionary change, to impose conformity, or, alternatively, to advance democracy. Students examine trials in their historical and moral context to weigh such issues as who can prosecute; can crimes be defined after the fact; can punishing speech be justified? Cases include Socrates, Louis XVI, General Dyer, the Soviet purges, Nuremberg, Eichmann, American cold-war hearings, and today's international tribunals and truth commissions.

Note: Expected to be given in 2011–12. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Moral Reasoning.

[Ethical Reasoning 13 (formerly Moral Reasoning 56). Self, Freedom, and Existence]

Catalog Number: 6507

Richard Moran (Philosophy)

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

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 given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Moral Reasoning.

Ethical Reasoning 14 (formerly Moral Reasoning 33). Issues in Ethics

Catalog Number: 2255

Thomas M. Scanlon (Philosophy)

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

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

Note: This course, when taken for a letter grade, meets the Core area requirement for Moral Reasoning.

[Ethical Reasoning 15 (formerly Moral Reasoning 54). "If There is No God, All is Permitted:" Theism and Moral Reasoning]

Catalog Number: 1321

Jay M. Harris (Near Eastern Languages and Civilizations)

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

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

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Moral Reasoning.

[Ethical Reasoning 16 (formerly Moral Reasoning 58). Slavery in Western Political Thought]

Catalog Number: 8892

Richard Tuck (Government)

Half course (spring term). Tu., Th., at 11, and a weekly section to be arranged.

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.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Moral Reasoning.

[Ethical Reasoning 17 (formerly Moral Reasoning 76). Comparative Religious Ethics]

Catalog Number: 7037

Anne E. Monius (Harvard Divinity School)

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



Predicated on the assumption that global concerns are manifest in highly particularized cultural and religious circumstances, this course seeks to understand Hindu, Buddhist, and Christian framings of and prospective solutions to the problem of communal violence in the modern world. Topics examined in each tradition include: conceptions of moral subjectivity, frameworks for moral education, close readings of novels that grapple with the moral challenges (especially new forms of violence) wrought by colonization and globalization, and explicitly religious responses to such violence in the work of Gandhi, Buddhist monastic communities in Sri Lanka, and Archbishop Desmond Tutu.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Moral Reasoning.

Ethical Reasoning 18 (formerly Moral Reasoning 78). Classical Chinese Ethical and Political Theory

Catalog Number: 9742

Michael J. Puett (East Asian Languages and Civilizations)

Half course (fall term). M., W., at 10, and a weekly section to be arranged. EXAM GROUP: 3
How should one make moral choices? What is the best way to live a moral life? How should the state be organized to best encourage proper human behavior? And what happens if the state comes to be formed as an empire? What are the proper moral ways to respond? Questions such as these were at the heart of classical Chinese philosophical debates. This course will be the study of how the classical Chinese thinkers wrestled with these questions and what responses they gave. As we will quickly see, the views that arose in China were among the most powerful and influential in human history. Regardless of whether one agrees with these views or not, they should be studied and taken seriously by anyone who cares about ethics and politics.

Note: Expected to be omitted in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Moral Reasoning.

[Ethical Reasoning 20 (formerly Humanities 11). Self, Serenity, and Vulnerability: East and West]

Catalog Number: 2401

Michael J. Puett (East Asian Languages and Civilizations) and Roberto Mangabeira Unger (Harvard Law School)

Half course (spring term). Th., 5–7 p.m., and a weekly section to be arranged.

This course is a comparative inquiry into certain forms of moral consciousness and their metaphysical assumptions in the high cultures of Eurasia. We organize discussion around a broad background concern as well as a focused foreground theme. The background concern is the meaning or meaninglessness of human life: comparison of some of the ways in which philosophy, religion, and art in the East and the West have dealt with the fear that our lives and the world itself may be meaningless. The foreground theme is the contrast between two answers to the question-how should I live my life? One answer, valuing serenity achieved through disengagement from illusion and vain striving, is: stay out of trouble. Another answer, prizing the acceptance of vulnerability for the sake of self-construction and self-transformation is: look for trouble. The second answer has come to play a major part in the moral and political projects that command attention throughout the world today. We seek to understand this second answer and to assess it in the light of speculative ideas that have been prominent in Eastern and Western thought. Conversely, we use our chosen theme to explore how Eastern and Western speculation



have dealt with the limits of insight into what matters most. To these ends, we consider exemplary writings from several traditions: Chinese, South Asian, ancient Greek, and modern European.

Note: Expected to be given in 2012–13. Offered jointly with the Law School. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Moral Reasoning.

Ethical Reasoning 21 (formerly Moral Reasoning 66). Moral Reasoning about Social Protest

Catalog Number: 7778

Susanna C. Siegel (Philosophy)

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

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

Note: This course, when taken for a letter grade, meets the Core area requirement for Moral Reasoning.

Ethical Reasoning 22 (formerly Moral Reasoning 22). Justice

Catalog Number: 3753 Enrollment: Limited to 1000.

Michael J. Sandel (Government)

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

A critical analysis of selected classical and contemporary theories of justice, with discussion of present-day practical applications. Topics include affirmative action, income distribution, same-sex marriage, 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.

Note: Expected to be omitted in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Moral Reasoning.

[Ethical Reasoning 23 (formerly Moral Reasoning 82). Trust, Vision, and Doubt in Ethics, Politics, and Law]

Catalog Number: 4453

Scott Brewer (Harvard Law School)

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

This course explores the interplay of trust, vision, justification and doubt in ethical, political, and legal thought. It examines how some of the characteristic moral, political and legal faiths of the last few centuries have been transformed under the pressure of skepticism or of a crisis of faith. In this way, it introduces students to the problems and opportunities of reasoning in all the normative disciplines.



Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Moral Reasoning.

Ethical Reasoning 24. Bioethics

Catalog Number: 72195

Daniel I. Wikler (Harvard School of Public Health)

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

GROUP: 13, 14

Bioethics is the study of ethical issues arising in efforts to maintain and restore health, and, more broadly, with charting humankind's future in an era of both technological advances and unmet need. We will try to reason our way through moral dilemmas that pit health against freedom, prevention against rescue, and the claims of those with competing needs when life itself hangs in the balance. The course will emphasize ethical issues involving health that arise at the global and population levels, particularly those involving peoples and regions with the greatest burden of disease.

Note: This course, when taken for a letter grade, meets the Core area requirement for Moral Reasoning.

Ethical Reasoning 26. The Ethics of Atheism: Marx, Nietzsche, Freud - (New Course)

Catalog Number: 12763

Peter J. Burgard (Germanic Languages and Literatures)

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

Examines the Western secular tradition through the work of three seminal figures whose critiques of religion—in social and political theory, philosophy, and psycho-analysis and anthropology—are motivated by ethical concerns. Brief introductory readings of Kant, Hegel, and Feuerbach ground analysis of Marx's, Nietzsche's, and Freud's ethical atheism. Students do not develop or debate formulae for behavior, but rather become critically aware of ethical considerations that underlie actions and that are negotiated vis-à-vis prevailing moral codes. Readings include *The German Ideology*, *The Communist Manifesto*, *The Gay Science*, *Beyond Good and Evil*, *On the Genealogy of Morals*, *The Anti-Christ*, *Three Essays on the Theory of Sexuality*, *Totem and Taboo*, *The Future of an Illusion*.

Note: Expected to be omitted in 2011–12. This course, when taken for a letter grade, meets the General Education requirement for either Ethical Reasoning or Culture and Belief, but not both. This course, when taken for a letter grade, meets the Core area requirement for Moral Reasoning.

Ethical Reasoning 27 (formerly Moral Reasoning 28). Ethics and International Relations

Catalog Number: 0642

Stanley Hoffmann (University Professor; Government) and J. Bryan Hehir (Harvard Kennedy School)

Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

The course explores the problem of morality in international relations. Starting from an overview of different theoretical perspectives concerning moral argumentation in international affairs, it proceeds to consider the ethical dimensions of more specific international issues such as the use of force, human rights, and distributive justice. Contemporary cases will be used when relevant.



Note: Expected to be omitted in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Moral Reasoning.

Ethical Reasoning 28. Moral Inquiry in the Novels of Tolstoy and Dostoevsky - (New Course)

Catalog Number: 27743

Justin Weir (Slavic Languages and Literatures)

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

This course considers how Tolstoy and Dostoevsky take up moral inquiry in their fiction, introduces students to philosophical texts that informed their major fiction, and asks why the novel as a literary genre may be a good forum for the discussion of ethics. We will read Tolstoy's *Anna Karenina*, Dostoevsky's *Notes from Underground* and *The Brothers Karamazov*, as well as selected texts from Rousseau, Schopenhauer, Nietzsche, and others.

Note: This course, when taken for a letter grade, meets the Core area requirement for Moral Reasoning.

Ethical Reasoning 29. Social Theory, the Humanities, and Philosophy Now - (New Course)

Catalog Number: 21034

Michael J. Puett (East Asian Languages and Civilizations; Study of Religion) and Roberto Mangabeira Unger (Harvard Law School)

Half course (spring term). Th., 5-7 p.m. EXAM GROUP: 18

A sustained discussion of the obstacles and the opportunities that the established traditions of Western philosophy, social theory and the humanities present to those who see time as real, history as open, novelty as possible, and social and cultural transformation as imperative. The central theme is how thought deals with the creation of the new. Special attention to three European philosophers -- Hegel, Marx, and Bergson, as well as to those strands in contemporary philosophy and social thought that bear most closely on our concerns. No prerequisites other than willingness to consider a wide range of problems, materials, and ideas.

Note: Offered jointly with the Law School as LAW-46211A. This course, when taken for a letter grade, meets the Core area requirement for Moral Reasoning.

Cross-listed courses that satisfy the Ethical Reasoning Requirement. Some of these courses may have prerequisites or assume familiarity with the subject matter.

Government 10. Foundations of Political Theory

Government 1061. The History of Modern Political Philosophy

[Government 1093. Ethics, Biotechnology, and the Future of Human Nature]

[Life Sciences 60 (formerly MCB 60). Ethics, Biotechnology, and the Future of Human Nature]

[Philosophy 168. Kant's Ethical Theory]

Philosophy 172. The History of Modern Moral Philosophy

[Philosophy 173. Metaethics]

[Philosophy 174. Recent Ethical Theory]

Philosophy 178. Equality and Democracy

Philosophy 179. Race and Social Justice

Religion 56. Existentialism and Religion



United States in the World 20 (formerly Moral Reasoning 74). The Theory and Practice of Republican Government

Ethnic Studies

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Committee on Ethnic Studies

Caroline M. Elkins, Professor of History (*Chair*)
Homi K. Bhabha, Anne F. Rothenberg Professor of the Humanities
Jacqueline Bhabha, Lecturer on Social Studies
Lisa T. Brooks, Assistant Professor of History and Literature and of Folklore and Mythology
Vincent Brown, Dunwalke Associate Professor of American History (*on leave 2010-11*)
Glenda R. Carpio, Professor of English and of African and African American Studies
Lucien G. Castaing-Taylor, John L. Loeb Associate Professor of the Humanities and of the Social Sciences
Joyce E. Chaplin, James Duncan Phillips Professor of Early American History (*on leave 2010-11*)
Emma Dench, Professor of the Classics and of History, Harvard College Professor
William L. Fash, Bowditch Professor of Central American and Mexican Archaeology and Ethnology
Deborah D. Foster, Senior Lecturer on Folklore and Mythology
Jennifer L. Hochschild, Henry LaBarre Jayne Professor of Government and Professor of African and African American Studies, Harvard College Professor (*on leave spring term*)
Walter Johnson, Winthrop Professor of History and Professor of African and African American Studies (*on leave 2010-11*)
Tamara Kay, Associate Professor of Sociology
Lili M. Kim, Visiting Associate Professor of History
Matthew Joseph Liebmann, Assistant Professor of Anthropology (*on leave 2010-11*)
Shelly C. Lowe, Executive Director of the Harvard University Native American Program
Stephen P. Marks, Francois-Xavier Bagnoud Professor of Health and Human Rights, Harvard School of Public Health (*Public Health*)
Ingrid Monson, Quincy Jones Professor of African-American Music, Supported by the Time Warner Endowment, Dean of Arts and Humanities
Gerald L. Neuman, J. Sinclair Armstrong Professor Of International, Foreign, and Comparative Law (*Law School*)
Mica Pollock, Associate Professor of Education (*School of Education*)
Michael J. Puett, Professor of Chinese History



Fernando Miguel Reimers, Ford Foundation Professor of International Education (*School of Education*)

Marc Shell, Irving Babbitt Professor of Comparative Literature and Professor of English (*on leave 2010-11*)

Doris Sommer, Ira Jewell Williams, Jr. Professor of Romance Languages and Literatures and of African and African American Studies

Rachel St. John, Associate Professor of History (*on leave 2010-11*)

Kimberly Theidon, John L. Loeb Associate Professor of the Social Sciences

Gary Urton, Dumbarton Oaks Professor of Pre-Columbian Studies

Affiliated Members

Edward Schumacher, Ash Institute Fellow (*Kennedy School*)

Faculty members from across the disciplines and schools whose work focuses on ethnicity, migration, indigeneity, and human rights cooperate in this interdisciplinary committee to provide course enrichment for Harvard College students, particularly in Asian American/Transpacific, Native American/Indigenous, and US Latino/American hemispheric topics, with an American focus as well as a transnational one. Ethnic Studies courses address race critique in the social sciences and in the humanities, consider the role of mobility, diasporas and migration as well as of indigeneity in the configuration of group identities and power formations. An overarching concern is the study of the historical, political and cultural forms through which individuals inhabit the political space of the nation and of the transnational sphere, frequently in the wake of colonialism and displacements that have created stateless people. Bringing to bear the discourse of human rights, Ethnic Studies courses consider the ethics of responsibility that the university must try to foster as it trains citizens and leaders to deal with the construction of political communities as well as the situation of those who are deprived of their legal status.

Ethnic studies are inherently comparative. Those who wish to understand the uniqueness of a particular people can do so most effectively by comparisons with other. Scholars and students seek to understand why the boundaries of particular ethnic groups change and why this process of ethnic group formation is so fluid. The study of ethnicity at Harvard is focused on the broad canvas of the human experience. While it includes the United States at its center, it is enriched by being situated in a broadly comparative and transnational context. Moreover, the focus of many courses is explicitly historical, making for a better understanding of the changing ways in which individuals choose to affiliate or have been coerced into categories by others.

Portal Courses

[English 196. Literature of Migration and Ethnicity: The Case of the United States](#)

[Ethical Reasoning 11. Human Rights: A Philosophical Introduction](#)

[Folklore and Mythology 126. Continuing Oral Traditions in Indigenous Communities](#)

[United States in the World 15 \(formerly Social Analysis 66\). Is the American Racial Order Being Transformed?](#)

General Education Courses in Ethnic Studies



[United States in the World 24 \(formerly Sociology 19\). Reinventing Boston: The Changing American City](#)

[United States in the World 27. Religion and American Society: Global Traditions in a Changing Culture](#)

[United States in the World 31 \(formerly Social Analysis 54\). American Society and Public Policy](#)

[*United States in the World 32 \(formerly Religion 1007\). The World's Religions in Multicultural America: Case Studies in Religious Pluralism](#)

Freshman Seminars

[*Freshman Seminar 42v. Human Rights Between Rhetoric and Reality](#)

[*Freshman Seminar 45m. The Concept of Race in Science and Medicine in the United States](#)

[*Freshman Seminar 46n. The Great Immigration Debate - \(New Course\)](#)

[*Freshman Seminar 46p. Human Rights in Peace and War](#)

African and African American Studies

[African and African American Studies 10. Introduction to African American Studies](#)

[African and African American Studies 11. Introduction to African Studies](#)

[African and African American Studies 20. Introduction to African Languages and Cultures](#)

[African and African American Studies 118. The History of African Americans From the Slave Trade to the Great Migration](#)

[African and African American Studies 121. Please, Wake Up! - Race, Gender, Class and Ethnicity in the Early Films of Spike Lee](#)

[African and African American Studies 131. African-American Literature to the 1920s](#)

[African and African American Studies 162. Indigenous Religious Traditions and Modernity: Seminar](#)

Anthropology

[Anthropology 1080. North American Archaeology: Lost Tribes and Ancient Capitals of North America]

[Anthropology 1175. The Archaeology of Ethnicity](#)

[Anthropology 1190. Encountering the Conquistadors]

English

[*English 62. Diffusions: Castaways and Renegades](#)

[English 172. New Immigrant Narratives - \(New Course\)](#)

Government



[*Government 98ej. Ethnic Politics]

[*Government 98gl. Inhuman Wrongs: Crimes Against Humanity in Theory, Politics, and Law]

***Government 98nm (formerly *Government 90nm). Race and Representation**

History

***History 71d. Race and Ethnicity in the British Atlantic World: 1570-1772 - (New Course)**

***History 72j. Ethnic Cleansing and the Making of Nation-States - (New Course)**

***History 89a (formerly *History 1916). British Colonial Violence in the 20th Century**

History 1012. Identity in Classical Antiquity - (New Course)

History 1255. Order and Conquest: Modern Central Europe - (New Course)

[History 1711. A History of Southern Africa] - (New Course)

History and Literature

***History and Literature 90ae. Border Crossings: Remaking European Identities - (New Course)**

***History and Literature 90af. Mexican American Crossings - (New Course)**

***History and Literature 90o. Native American Literature: Narrations of Nationhood**

The Study of Religion

Religion 1005. World Religions in Boston: Seminar

***Religion 1820 (formerly *Religion 1585). Muslim Societies in South Asia: Religion, Culture, and Identity**

Romance Languages and Literatures

***Spanish 59 (formerly Spanish 60). Spanish and the Community**

Social Studies

***Social Studies 98la. Race, Space and Identity in the American City**

***Social Studies 98li. Ethnic and Religious Conflict in East and South Asia**

***Social Studies 98mb. Violence and Culture - (New Course)**

***Social Studies 98me. Cosmopolitics of Human Rights - (New Course)**

Sociology

***Sociology 98H. Immigration, Politics, and Movements**

Sociology 129. Education and Society

***Sociology 167. Visualizing Human Rights and Social Change in Documentary Photography and Film**

Sociology 175. Sociology of Immigration



Sociology 183. Race and Ethnic Relations

[Sociology 248. Race, Politics, and Social Inequality: Seminar]

Visual and Environmental Studies

[*Visual and Environmental Studies 158br (formerly *Visual and Environmental Studies 158r). Living Documentary: Studio Course]

European Studies

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Committee on European Studies

David Blackbourn, Coolidge Professor of History (*Chair*) (*on leave fall term*)

Grzegorz Ekiert, Professor of Government

Niall Ferguson, Laurence A. Tisch Professor of History and Professor of Business Administration (*on leave 2010-11*)

Alison F. Frank, John L. Loeb Associate Professor of the Social Sciences (*on leave 2010-11*)

Peter E. Gordon, Professor of History, Harvard College Professor

Peter A. Hall, Krupp Foundation Professor of European Studies (*on leave fall term*)

Maya Jasanoff, John L. Loeb Associate Professor of the Social Sciences, Professor of History

Mary D. Lewis, Professor of History

Charles S. Maier, Leverett Saltonstall Professor of History (*on leave spring term*)

Daniel F. Ziblatt, Paul Sack Associate Professor of Political Economy, Professor of Government

The Standing Committee on European Studies is the formal oversight body for the Minda de Gunzburg Center for European Studies. It is comprised of those permanent faculty members who have offices in the Center and selected other representatives of FAS and of other universities in the Boston area who remain active in the study and teaching of modern Europe.

For over thirty years, the Center for European Studies has offered an interdisciplinary program designed to enhance the knowledge and understanding of political, social, economic, and cultural developments in modern Europe. Its members' intellectual approaches encompass history, political science, political economy, anthropology, sociology, and cultural studies. Its purview includes all the regions of Europe as well as the institutional structures within individual countries and the European Union. The Center funds undergraduate thesis travel, dissertation fellowships, and offers several post-doctoral fellowships. Its quarters in Busch Hall provide office space for faculty, visiting scholars, and doctoral students on Europe. At the same time, the



Center supports several study groups that maintain a schedule of seminars and presentations by visiting scholars and speakers from the world of public affairs and it organizes periodic conferences and workshops on European affairs. It maintains a program for the study of Germany and Europe initially funded by the Federal Republic of Germany and now supported by the Center's endowments. The Center is actively engaged in cooperation to advance European studies with other Harvard Faculties and Boston-area universities.

Expository Writing

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

The 2010-11 membership of this committee has not yet been finalized. Complete membership information for 2010-11 will be posted as soon as it becomes available.

Faculty of the Committee on Writing and Speaking

For Undergraduates Only

Expository Writing 20 fulfills the basic requirement in Expository Writing, a requirement for all undergraduates in their first year of residence. The Expository Writing Program also offers two elective courses, Expos 10 and Expos 40. No Expository Writing courses have midterm or final examinations. For additional information on Expository Writing courses, see the Writing Program website: <http://writingprogram.fas.harvard.edu>.

Expository Writing 10

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, engaging essays. Students also meet frequently in individual conferences with instructors to discuss their work. Assignments are based on sources from a range of disciplines and genres.

[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.



Note: Expected to be given in 2011–12. After taking Expository Writing 10, a student must pass Expository Writing 20 to meet the College’s Expository Writing requirement.

Expository Writing 10.001. Introduction to Expository Writing - (New Course)

Catalog Number: 77429 Enrollment: Limited to 10.

Patricia M. Bellanca

Half course (fall term). M., W., at 11.

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, engaging essays. Students also meet frequently in individual conferences with instructors to discuss their work. Assignments are based on sources from a range of disciplines and genres.

Expository Writing 10.002. Introduction to Expository Writing - (New Course)

Catalog Number: 25907 Enrollment: Limited to 10.

Elizabeth Greenspan

Half course (fall term). M., W., at 12.

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, engaging essays. Students also meet frequently in individual conferences with instructors to discuss their work. Assignments are based on sources from a range of disciplines and genres.

Expository Writing 10.003. Introduction to Expository Writing - (New Course)

Catalog Number: 92536 Enrollment: Limited to 10.

Elizabeth Greenspan

Half course (fall term). M., W., at 1.

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, engaging essays. Students also meet frequently in individual conferences with instructors to discuss their work. Assignments are based on sources from a range of disciplines and genres.

Expository Writing 10.004. Introduction to Expository Writing - (New Course)

Catalog Number: 41014 Enrollment: Limited to 10.

Thomas R. Jehn

Half course (fall term). Tu., Th., at 10.

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, engaging essays. Students also meet frequently in individual conferences with instructors to discuss their work. Assignments are based on sources from a range of disciplines and genres.

Expository Writing 10.005. Introduction to Expository Writing - (New Course)

Catalog Number: 56121 Enrollment: Limited to 10.

Courtney Bickel Lamberth



Half course (fall term). Tu., Th., at 11.

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, engaging essays. Students also meet frequently in individual conferences with instructors to discuss their work. Assignments are based on sources from a range of disciplines and genres.

Expository Writing 10.006. Introduction to Expository Writing - (New Course)

Catalog Number: 71228 Enrollment: Limited to 10.

Courtney Bickel Lamberth

Half course (fall term). Tu., Th., at 12.

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, engaging essays. Students also meet frequently in individual conferences with instructors to discuss their work. Assignments are based on sources from a range of disciplines and genres.

Expository Writing 10.007. Introduction to Expository Writing - (New Course)

Catalog Number: 86335 Enrollment: Limited to 10.

Jane A. Rosenzweig

Half course (fall term). Tu., Th., at 11.

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, engaging essays. Students also meet frequently in individual conferences with instructors to discuss their work. Assignments are based on sources from a range of disciplines and genres.

Expository Writing 10.008. Introduction to Expository Writing - (New Course)

Catalog Number: 34813 Enrollment: Limited to 10.

Zachary Sifuentes

Half course (fall term). M., W., at 10.

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, engaging essays. Students also meet frequently in individual conferences with instructors to discuss their work. Assignments are based on sources from a range of disciplines and genres.

Expository Writing 10.009. Introduction to Expository Writing - (New Course)

Catalog Number: 65027 Enrollment: Limited to 10.

Zachary Sifuentes

Half course (fall term). M., W., at 11.

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, engaging essays. Students also meet frequently in individual conferences with instructors to discuss their work. Assignments are based on sources from a range of disciplines and genres.



Expository Writing 10.010. Introduction to Expository Writing - (New Course)

Catalog Number: 13505 Enrollment: Limited to 10.

Rebecca Summerhays

Half course (fall term). Tu., Th., at 12.

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, engaging essays. Students also meet frequently in individual conferences with instructors to discuss their work. Assignments are based on sources from a range of disciplines and genres.

Expository Writing 10.011. Introduction to Expository Writing - (New Course)

Catalog Number: 80134 Enrollment: Limited to 10.

Rebecca Summerhays

Half course (fall term). Tu., Th., at 1.

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, engaging essays. Students also meet frequently in individual conferences with instructors to discuss their work. Assignments are based on sources from a range of disciplines and genres.

Expository Writing 10.012. Introduction to Expository Writing - (New Course)

Catalog Number: 28612 Enrollment: Limited to 10.

Steven F. Wandler

Half course (fall term). M., W., at 1.

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, engaging essays. Students also meet frequently in individual conferences with instructors to discuss their work. Assignments are based on sources from a range of disciplines and genres.

Expository Writing 10.013. Introduction to Expository Writing - (New Course)

Catalog Number: 95241 Enrollment: Limited to 10.

Steven F. Wandler

Half course (fall term). M., W., at 2.

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, engaging essays. Students also meet frequently in individual conferences with instructors to discuss their work. Assignments are based on sources from a range of disciplines and genres.

Expository Writing 10.014. Introduction to Expository Writing - (New Course)

Catalog Number: 43719 Enrollment: Limited to 10.

William Conrad Weitzel

Half course (fall term). Tu., Th., at 1.

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, engaging essays. Students also meet frequently in individual conferences with instructors to discuss their work. Assignments are based on sources from a range of disciplines and genres.

Expository Writing 10.015. Introduction to Expository Writing - (New Course)

Catalog Number: 58826 Enrollment: Limited to 10.

William Conrad Weitzel

Half course (fall term). Tu., Th., at 2.

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, engaging essays. Students also meet frequently in individual conferences with instructors to discuss their work. Assignments are based on sources from a range of disciplines and genres.

Expository Writing 20

An intensive seminar that aims to improve each student's ability to discover and reason about evidence through the medium of essays. Each section focuses on a particular theme or topic, described on the Expos Website. All sections give students practice in formulating questions, analyzing both primary and secondary sources and properly acknowledging them, supporting arguments with strong and detailed evidence, and shaping clear, lively essays. All sections emphasize revision.

[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.

Note: Expected to be given in 2011–12. Students must pass one term of Expository Writing 20 to meet the College's Expository Writing requirement.

Expository Writing 20.001. Human Death and Disease - (New Course)

Catalog Number: 53084 Enrollment: Limited to 15.

Jerusha T. Achterberg

Half course (fall term). M., W., at 10.

All human beings, from every time, place, and culture, experience death and disease. In this course, we will examine selected topics surrounding the human experience with morbidity and mortality as approached by biological anthropology. Using a variety of sources across history and cultures, including primary research articles and personal narratives, we will explore biological processes of illness, cultural rituals and beliefs about mortality, and death as a mechanism of change.

Expository Writing 20.002. Human Death and Disease - (New Course)

Catalog Number: 68191 Enrollment: Limited to 15.



Jerusha T. Achterberg

Half course (fall term). M., W., at 11.

All human beings, from every time, place, and culture, experience death and disease. In this course, we will examine selected topics surrounding the human experience with morbidity and mortality as approached by biological anthropology. Using a variety of sources across history and cultures, including primary research articles and personal narratives, we will explore biological processes of illness, cultural rituals and beliefs about mortality, and death as a mechanism of change.

Expository Writing 20.003. Human Death and Disease - (New Course)

Catalog Number: 16669 Enrollment: Limited to 15.

Jerusha T. Achterberg

Half course (spring term). M., W., at 10.

All humans, from every time and place, experience death and disease. In this course, we will examine selected topics surrounding the human experience with morbidity and mortality as approached in the biological sciences. Using historical and contemporary science source materials, including primary research articles and persuasive essays, we will explore biological processes of illness, behaviors and knowledge about mortality, and death as a mechanism of change.

Expository Writing 20.004. Human Death and Disease - (New Course)

Catalog Number: 83298 Enrollment: Limited to 15.

Jerusha T. Achterberg

Half course (spring term). M., W., at 11.

All humans, from every time and place, experience death and disease. In this course, we will examine selected topics surrounding the human experience with morbidity and mortality as approached in the biological sciences. Using historical and contemporary science source materials, including primary research articles and persuasive essays, we will explore biological processes of illness, behaviors and knowledge about mortality, and death as a mechanism of change.

Expository Writing 20.005. Being American - (New Course)

Catalog Number: 40682 Enrollment: Limited to 15.

Laura L. Adams

Half course (fall term). Tu., Th., at 10.

Students will examine how important events in US history are portrayed across time and in different sources. The sources students will analyze include history textbooks, documentary films, and critical works on how history is taught. Students will write three essays in which they progressively develop their arguments about how and why these historical narratives are constructed, disputed, and ultimately, what they tell Americans about who they are today.

Expository Writing 20.006. Being American - (New Course)

Catalog Number: 49588 Enrollment: Limited to 15.

Laura L. Adams

Half course (spring term). Tu., Th., at 10.

Students will examine how important events in US history are portrayed across time and in



different sources. The sources students will analyze include history textbooks, documentary films, and critical works on how history is taught. Students will write three essays in which they progressively develop their arguments about how and why these historical narratives are constructed, disputed, and ultimately, what they tell Americans about who they are today.

Expository Writing 20.007. Being American - (New Course)

Catalog Number: 64695 Enrollment: Limited to 15.

Laura L. Adams

Half course (spring term). Tu., Th., at 11.

Students will examine how important events in US history are portrayed across time and in different sources. The sources students will analyze include history textbooks, documentary films, and critical works on how history is taught. Students will write three essays in which they progressively develop their arguments about how and why these historical narratives are constructed, disputed, and ultimately, what they tell Americans about who they are today.

Expository Writing 20.008. Diversity - (New Course)

Catalog Number: 31776 Enrollment: Limited to 15.

Michael Baran

Half course (fall term). M., W., at 12.

This course focuses on the assumptions, confusions, successes, and contradictions behind the idea of “diversity” by taking an anthropological, historical, and psychological look at the complex category of race. We will examine the origins of race as a cultural construction; we will scrutinize the legislation and policies that have shaped the ideology of race over time; and we will think about race in contemporary society by looking at inequalities, schools, and the media.

Expository Writing 20.009. Diversity - (New Course)

Catalog Number: 98405 Enrollment: Limited to 15.

Michael Baran

Half course (fall term). M., W., at 1.

This course focuses on the assumptions, confusions, successes, and contradictions behind the idea of “diversity” by taking an anthropological, historical, and psychological look at the complex category of race. We will examine the origins of race as a cultural construction; we will scrutinize the legislation and policies that have shaped the ideology of race over time; and we will think about race in contemporary society by looking at inequalities, schools, and the media.

Expository Writing 20.012. The Rise of Pop - (New Course)

Catalog Number: 77097 Enrollment: Limited to 15.

Kevin Brian Birmingham

Half course (fall term). M., W., at 10.

The idea that there is a hierarchy separating high and low art extends as far back as Aristotle, but during the past fifty years American culture has depended upon destroying this hierarchy. This course examines what happens to art and society when the boundaries separating high and low art are gone. We will examine Thomas Pynchon, Andy Warhol, and *The Rocky Horror Picture Show* along with cultural theorists such as Adorno, Benjamin, Sontag, and Bakhtin.

Expository Writing 20.013. The Rise of Pop - (New Course)

Catalog Number: 25575 Enrollment: Limited to 15.



Kevin Brian Birmingham

Half course (spring term). M., W., at 10.

The idea that there is a hierarchy separating high and low art extends as far back as Aristotle, but during the past fifty years American culture has depended upon destroying this hierarchy. This course examines what happens to art and society when the boundaries separating high and low art are gone. We will examine Thomas Pynchon, Andy Warhol, and *The Rocky Horror Picture Show* along with cultural theorists such as Adorno, Benjamin, Sontag, and Bakhtin.

Expository Writing 20.014. The Art of Representing the Other - (New Course)

Catalog Number: 13173 Enrollment: Limited to 15.

Owen Chen

Half course (fall term). Tu., Th., at 10.

How truthfully may words portray a hallucinating housewife, a vanquished race of American Indians, or a poor immigrant in a Chicago meatpacking factory? To what extent can literature give accurate portrayals of individuals with markedly diverse experiences? Examining the works of Charlotte Perkins Gilman, Francis Parkman, Edmund Wilson, and Upton Sinclair, we will investigate questions of individualism and collectivism, art and propaganda.

Expository Writing 20.015. The Art of Representing the Other - (New Course)

Catalog Number: 79802 Enrollment: Limited to 15.

Owen Chen

Half course (fall term). Tu., Th., at 11.

How truthfully may words portray a hallucinating housewife, a vanquished race of American Indians, or a poor immigrant in a Chicago meatpacking factory? To what extent can literature give accurate portrayals of individuals with markedly diverse experiences? Examining the works of Charlotte Perkins Gilman, Francis Parkman, Edmund Wilson, and Upton Sinclair, we will investigate questions of individualism and collectivism, art and propaganda.

Expository Writing 20.016. Among School Children - (New Course)

Catalog Number: 92204 Enrollment: Limited to 15.

Owen Chen

Half course (spring term). Tu., Th., at 10.

Everyone agrees that the child needs schooling, but few agree on how to administer it. What is the prime object of the school? And how to attain it? To try answering these questions, we look critically at what is said in current discussions of art for the schools, what is debated about testing, and what thinkers and writers have put forward about that perennially thorny topic, Education.

Expository Writing 20.017. Among School Children - (New Course)

Catalog Number: 55789 Enrollment: Limited to 15.

Owen Chen

Half course (spring term). Tu., Th., at 11.

Everyone agrees that the child needs schooling, but few agree on how to administer it. What is the prime object of the school? And how to attain it? To try answering these questions, we look critically at what is said in current discussions of art for the schools, what is debated about



testing, and what thinkers and writers have put forward about that perennially thorny topic, Education.

Expository Writing 20.018. Representations of American Democracy and Government - (New Course)

Catalog Number: 70896 Enrollment: Limited to 15.

Vernon Tad Davies

Half course (fall term). Tu., Th., at 12.

Beyond the abstraction of American democracy as government of, by and for the people, what can we glean about our definitions of American governance from historical and artistic representations of it? This course will examine what US democracy looks like when brought to life in campaign commercials, in the architecture of government buildings, and in conspiracy films. We will ask how these works shape our understanding of the possibilities and constraints of democratic action.

Expository Writing 20.019. Representations of American Democracy and Government - (New Course)

Catalog Number: 19374 Enrollment: Limited to 15.

Vernon Tad Davies

Half course (fall term). Tu., Th., at 1.

Beyond the abstraction of American democracy as government of, by and for the people, what can we glean about our definitions of American governance from historical and artistic representations of it? This course will examine what US democracy looks like when brought to life in campaign commercials, in the architecture of government buildings, and in conspiracy films. We will ask how these works shape our understanding of the possibilities and constraints of democratic action.

Expository Writing 20.020. Representations of American Democracy and Government - (New Course)

Catalog Number: 86003 Enrollment: Limited to 15.

Vernon Tad Davies

Half course (spring term). Tu., Th., at 12.

Beyond the abstraction of American democracy as government of, by and for the people, what can we glean about our definitions of American governance from historical and artistic representations of it? This course will examine what US democracy looks like when brought to life in campaign commercials, in the architecture of government buildings, and in conspiracy films. We will ask how these works shape our understanding of the possibilities and constraints of democratic action.

Expository Writing 20.021. Representations of American Democracy and Government - (New Course)

Catalog Number: 34481 Enrollment: Limited to 15.

Vernon Tad Davies

Half course (spring term). Tu., Th., at 1.

Beyond the abstraction of American democracy as government of, by and for the people, what can we glean about our definitions of American governance from historical and artistic



representations of it? This course will examine what US democracy looks like when brought to life in campaign commercials, in the architecture of government buildings, and in conspiracy films. We will ask how these works shape our understanding of the possibilities and constraints of democratic action.

Expository Writing 20.022. Re-Discovering the Impressionists - (New Course)

Catalog Number: 94909 Enrollment: Limited to 15.

Justine Renee De Young

Half course (fall term). M., W., at 10.

This course will recover the radical reputations of Manet, Monet, Degas, and Renoir as well as explore the vital artistic circles in which they moved—reading selections by Baudelaire, Mallarmé, and Zola. We will examine the vanguard movements of Realism and Impressionism in terms of major changes in nineteenth-century society, including: industrialization, Parisian urbanism, photography, the status of women, and the institutions of art. Finally, we will address Impressionism's contentious reception and blue-chip status today.

Expository Writing 20.023. Re-Discovering the Impressionists - (New Course)

Catalog Number: 43387 Enrollment: Limited to 15.

Justine Renee De Young

Half course (fall term). M., W., at 11.

This course will recover the radical reputations of Manet, Monet, Degas, and Renoir as well as explore the vital artistic circles in which they moved—reading selections by Baudelaire, Mallarmé, and Zola. We will examine the vanguard movements of Realism and Impressionism in terms of major changes in nineteenth-century society, including: industrialization, Parisian urbanism, photography, the status of women, and the institutions of art. Finally, we will address Impressionism's contentious reception and blue-chip status today.

Expository Writing 20.024. Re-Discovering the Impressionists - (New Course)

Catalog Number: 58494 Enrollment: Limited to 15.

Justine Renee De Young

Half course (spring term). M., W., at 10.

This course will recover the radical reputations of Manet, Monet, Degas, and Renoir as well as explore the vital artistic circles in which they moved—reading selections by Baudelaire, Mallarmé, and Zola. We will examine the vanguard movements of Realism and Impressionism in terms of major changes in nineteenth-century society, including: industrialization, Parisian urbanism, photography, the status of women, and the institutions of art. Finally, we will address Impressionism's contentious reception and blue-chip status today.

Expository Writing 20.025. Re-Discovering the Impressionists - (New Course)

Catalog Number: 73601 Enrollment: Limited to 15.

Justine Renee De Young

Half course (spring term). M., W., at 11.

This course will recover the radical reputations of Manet, Monet, Degas, and Renoir as well as explore the vital artistic circles in which they moved—reading selections by Baudelaire, Mallarmé, and Zola. We will examine the vanguard movements of Realism and Impressionism in terms of major changes in nineteenth-century society, including: industrialization, Parisian



urbanism, photography, the status of women, and the institutions of art. Finally, we will address Impressionism's contentious reception and blue-chip status today.

Expository Writing 20.026. The Mystery of Identity - (New Course)

Catalog Number: 19706 Enrollment: Limited to 15.

Sarah Ahrens

Half course (fall term). M., W., at 2.

This course focuses on the search for self-knowledge and the quest to unravel the mystery of identity in poetry, fiction, and film. We focus on Walt Whitman's groundbreaking expression of self in *Song of Myself*, and then grapple with questions of being and knowing in Paul Auster's *City of Glass*. Finally, we consider how contemporary films about becoming one's self—like *Persepolis* and *Memento*—represent complex questions of identity.

[Expository Writing 20.027. The Mystery of Identity] - (New Course)

Catalog Number: 73933 Enrollment: Limited to 15.

Sarah Ahrens

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

This course focuses on the search for self-knowledge and the quest to unravel the mystery of identity in poetry, fiction, and film. We focus on Walt Whitman's groundbreaking expression of self in *Song of Myself*, and then grapple with questions of being and knowing in Paul Auster's *City of Glass*. Finally, we consider how contemporary films about becoming one's self—like *Persepolis* and *Memento*—represent complex questions of identity.

Note: Expected to be given in 2011–12.

Expository Writing 20.028. The Mystery of Identity - (New Course)

Catalog Number: 22411 Enrollment: Limited to 15.

Sarah Ahrens

Half course (spring term). M., W., at 2.

This course focuses on the search for self-knowledge and the quest to unravel the mystery of identity in poetry, fiction, and film. We focus on Walt Whitman's groundbreaking expression of self in *Song of Myself*, and then grapple with questions of being and knowing in Paul Auster's *City of Glass*. Finally, we consider how contemporary films about becoming one's self—like *Persepolis* and *Memento*—represent complex questions of identity.

Expository Writing 20.029. The Mystery of Identity - (New Course)

Catalog Number: 37518 Enrollment: Limited to 15.

Sarah Ahrens

Half course (spring term). M., W., at 3.

This course focuses on the search for self-knowledge and the quest to unravel the mystery of identity in poetry, fiction, and film. We focus on Walt Whitman's groundbreaking expression of self in *Song of Myself*, and then grapple with questions of being and knowing in Paul Auster's *City of Glass*. Finally, we consider how contemporary films about becoming one's self—like *Persepolis* and *Memento*—represent complex questions of identity.

Expository Writing 20.030. Contesting Democracy - (New Course)

Catalog Number: 22079 Enrollment: Limited to 15.



Samuel Werby Goldman

Half course (fall term). M., W., at 10.

The word "democracy" literally means "the power of the people." But who are the people? And what is their power? Reading authors including Aristotle, James Madison, and several contemporary political theorists, this course examines the development of the idea of democracy from ancient Greece to the present-day United States. Our analysis will focus on one of the oldest and most powerful criticisms of democracy: that the power of the people turns inevitably into the tyranny of the majority.

Expository Writing 20.031. Contesting Democracy - (New Course)

Catalog Number: 88708 Enrollment: Limited to 15.

Samuel Werby Goldman

Half course (fall term). M., W., at 11.

The word "democracy" literally means "the power of the people." But who are the people? And what is their power? Reading authors including Aristotle, James Madison, and several contemporary political theorists, this course examines the development of the idea of democracy from ancient Greece to the present-day United States. Our analysis will focus on one of the oldest and most powerful criticisms of democracy: that the power of the people turns inevitably into the tyranny of the majority.

Expository Writing 20.032. Contesting Democracy - (New Course)

Catalog Number: 37186 Enrollment: Limited to 15.

Samuel Werby Goldman

Half course (spring term). M., W., at 10.

The word "democracy" literally means "the power of the people." But who are the people? And what is their power? Reading authors including Aristotle, James Madison, and several contemporary political theorists, this course examines the development of the idea of democracy from ancient Greece to the present-day United States. Our analysis will focus on one of the oldest and most powerful criticisms of democracy: that the power of the people turns inevitably into the tyranny of the majority.

Expository Writing 20.033. Contesting Democracy - (New Course)

Catalog Number: 52293 Enrollment: Limited to 15.

Samuel Werby Goldman

Half course (spring term). M., W., at 11.

The word "democracy" literally means "the power of the people." But who are the people? And what is their power? Reading authors including Aristotle, James Madison, and several contemporary political theorists, this course examines the development of the idea of democracy from ancient Greece to the present-day United States. Our analysis will focus on one of the oldest and most powerful criticisms of democracy: that the power of the people turns inevitably into the tyranny of the majority.

Expository Writing 20.034. Modern Cities in Crisis - (New Course)

Catalog Number: 15878 Enrollment: Limited to 15.

Elizabeth Greenspan

Half course (spring term). M., W., at 1; Tu., 7:35–10 p.m.



This course explores the challenges and contradictions of urban life. We examine fictional and non-fictional accounts of ghettos and slums to investigate relationships between class, race, violence, the family, and politics. Our texts include the HBO series *The Wire*; an ethnography of the drug trade in NYC; and a journalistic account of the Mumbai slums. We explore the arguments these texts make about the problems plaguing cities, and discuss possible solutions.

[Expository Writing 20.035. Modern Cities in Crisis] - (New Course)

Catalog Number: 82507 Enrollment: Limited to 15.

Elizabeth Greenspan

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

This course explores the challenges and contradictions of urban life. We examine fictional and non-fictional accounts of ghettos and slums to investigate relationships between class, race, violence, the family, and politics. Our texts include the HBO series *The Wire*; an ethnography of the drug trade in NYC; and a journalistic account of the Mumbai slums. We explore the arguments these texts make about the problems plaguing cities, and discuss possible solutions.

Note: Expected to be given in 2011–12.

Expository Writing 20.036. Writing Culture - (New Course)

Catalog Number: 30985 Enrollment: Limited to 15.

Gregory A. Harris

Half course (fall term). Tu., Th., at 12.

Our desires and perceptions take shape not just individually but through shared systems of meaning: culture. How can we see culture, though, when our own often seems transparently natural (like water to a fish, one anthropologist observed), and others' intrinsically alien? Short answer: through encounter. With the aim of writing original cultural analysis of Harvard and other subjects, we'll study anthropologists (Geertz, Rosaldo), social theorists (Williams, James), and other writers (McCarthy, Didion, Alexie).

Expository Writing 20.037. Writing Culture - (New Course)

Catalog Number: 97614 Enrollment: Limited to 15.

Gregory A. Harris

Half course (fall term). Tu., Th., at 2.

Our desires and perceptions take shape not just individually but through shared systems of meaning: culture. How can we see culture, though, when our own often seems transparently natural (like water to a fish, one anthropologist observed), and others' intrinsically alien? Short answer: through encounter. With the aim of writing original cultural analysis of Harvard and other subjects, we'll study anthropologists (Geertz, Rosaldo), social theorists (Williams, James), and other writers (McCarthy, Didion, Alexie).

Expository Writing 20.038. Writing Culture - (New Course)

Catalog Number: 46092 Enrollment: Limited to 15.

Gregory A. Harris

Half course (spring term). Tu., Th., at 2.

Our desires and perceptions take shape not just individually but through shared systems of meaning: culture. How can we see culture, though, when our own often seems transparently natural (like water to a fish, one anthropologist observed), and others' intrinsically alien? Short



answer: through encounter. With the aim of writing original cultural analysis of Harvard and other subjects, we'll study anthropologists (Geertz, Rosaldo), social theorists (Williams, James), and other writers (McCarthy, Didion, Alexie).

Expository Writing 20.039. Race in the Americas - (New Course)

Catalog Number: 61199 Enrollment: Limited to 15.

James P. Herron

Half course (fall term). M., W., at 11.

This course offers a comparative examination of the racial ideologies in North and Latin America. Major themes include contemporary anthropological and historical theories of the development of racial ideologies in the U.S.; recent scholarly controversies about the significance of race in Brazil; and the nature of whiteness as a racial identity.

Expository Writing 20.040. Whiteness and Race - (New Course)

Catalog Number: 76306 Enrollment: Limited to 15.

James P. Herron

Half course (spring term). Tu., Th., at 12.

This course explores white people as a social group and whiteness as a cultural category. We will examine from an anthropological perspective issues of white privilege, white racism, the relationships of whites to non-white groups, historical changes in the definition of who counts as white, and the self-conceptions of various white groups in different times and places.

Expository Writing 20.041. Shakespeare's Inventions - (New Course)

Catalog Number: 24784 Enrollment: Limited to 15.

Jonah M. Johnson

Half course (fall term). M., W., at 1.

We will first examine what *Hamlet* and *Romeo and Juliet* can tell us about how individuals—in particular Shakespeare himself—actively invent and renegotiate their identities within the confines of a given culture. In the third unit we will look at Tom Stoppard's *Rosencrantz and Guildenstern Are Dead* (1966) and *Shakespeare in Love* in order to assess the extent to which we rely on the re-invention of Shakespeare's works for our own cultural identity.

Expository Writing 20.042. Shakespeare's Inventions - (New Course)

Catalog Number: 91413 Enrollment: Limited to 15.

Jonah M. Johnson

Half course (fall term). M., W., at 2.

We will first examine what *Hamlet* and *Romeo and Juliet* can tell us about how individuals—in particular Shakespeare himself—actively invent and renegotiate their identities within the confines of a given culture. In the third unit we will look at Tom Stoppard's *Rosencrantz and Guildenstern Are Dead* (1966) and *Shakespeare in Love* in order to assess the extent to which we rely on the re-invention of Shakespeare's works for our own cultural identity.

Expository Writing 20.043. Shakespeare's Inventions - (New Course)

Catalog Number: 39891 Enrollment: Limited to 15.

Jonah M. Johnson

Half course (spring term). M., W., at 1.



We will first examine what *Hamlet* and *Romeo and Juliet* can tell us about how individuals—in particular Shakespeare himself—actively invent and renegotiate their identities within the confines of a given culture. In the third unit we will look at Tom Stoppard’s *Rosencrantz and Guildenstern Are Dead* (1966) and *Shakespeare in Love* in order to assess the extent to which we rely on the re-invention of Shakespeare’s works for our own cultural identity.

Expository Writing 20.044. Shakespeare’s Inventions - (New Course)

Catalog Number: 54998 Enrollment: Limited to 15.

Jonah M. Johnson

Half course (spring term). M., W., at 2.

We will first examine what *Hamlet* and *Romeo and Juliet* can tell us about how individuals—in particular Shakespeare himself—actively invent and renegotiate their identities within the confines of a given culture. In the third unit we will look at Tom Stoppard’s *Rosencrantz and Guildenstern Are Dead* (1966) and *Shakespeare in Love* in order to assess the extent to which we rely on the re-invention of Shakespeare’s works for our own cultural identity.

Expository Writing 20.045. Imagination and Genius - (New Course)

Catalog Number: 70105 Enrollment: Limited to 15.

John Jacob Kaag

Half course (spring term). Tu., Th., at 2.

This course traces the concepts of the imagination and genius through ancient Greek thought, through the Enlightenment and Romanticism, into the post-modern era. Finally, it turns to most recent studies of the cognitive sciences to give an empirically informed, and alternative, way of conceiving of genius. This course will be fashioned in order to highlight the various aspect of expository essay writing while it explores the origin and development of the imagination in the Western intellectual tradition. Students will grapple with the classics of Plato, Aristotle, Kant, and Dostoyevsky while integrating more recent studies of the imagination by Gerald Edelman and Antonio Damasio.

Expository Writing 20.046. Darwinian Dating - (New Course)

Catalog Number: 18583 Enrollment: Limited to 15.

Elissa Krakauer

Half course (fall term). Tu., Th., at 10.

In this course we will examine patterns of human attraction, using an evolutionary perspective to better understand mate choice. In the first unit, we will explore the roles of biology versus culture in human behavior. Next, we will address female attraction and attempt to determine whether women prefer “nice guys” or “bad boys.” In the final unit, students will have an opportunity to undertake independent research as they explore the nature of male attraction.

Expository Writing 20.047. Darwinian Dating - (New Course)

Catalog Number: 85212 Enrollment: Limited to 15.

Elissa Krakauer

Half course (fall term). Tu., Th., at 11.

In this course we will examine patterns of human attraction, using an evolutionary perspective to better understand mate choice. In the first unit, we will explore the roles of biology versus culture in human behavior. Next, we will address female attraction and attempt to determine



whether women prefer “nice guys” or “bad boys.” In the final unit, students will have an opportunity to undertake independent research as they explore the nature of male attraction.

Expository Writing 20.048. Darwinian Dating - (New Course)

Catalog Number: 48797 Enrollment: Limited to 15.

Elissa Krakauer

Half course (spring term). Tu., Th., at 10.

In this course we will examine patterns of human attraction, using an evolutionary perspective to better understand mate choice. In the first unit, we will explore the roles of biology versus culture in human behavior. Next, we will address female attraction and attempt to determine whether women prefer “nice guys” or “bad boys.” In the final unit, students will have an opportunity to undertake independent research as they explore the nature of male attraction.

Expository Writing 20.049. Darwinian Dating - (New Course)

Catalog Number: 63904 Enrollment: Limited to 15.

Elissa Krakauer

Half course (spring term). Tu., Th., at 11.

In this course we will examine patterns of human attraction, using an evolutionary perspective to better understand mate choice. In the first unit, we will explore the roles of biology versus culture in human behavior. Next, we will address female attraction and attempt to determine whether women prefer “nice guys” or “bad boys.” In the final unit, students will have an opportunity to undertake independent research as they explore the nature of male attraction.

Expository Writing 20.050. Sound, Noise, Music - (New Course)

Catalog Number: 52625 Enrollment: Limited to 15.

Damon Krukowski

Half course (fall term). M., W., at 10.

Music is everywhere around us—entangled with (and a part of) the many noises we experience. And yet we tend to think of music as distinct from other sounds, isolating it in our minds even when we can’t with our ears. In this course, we will question that isolation, and examine music as an aspect of its greater environment - natural, social, and technological—rather than apart from it

Expository Writing 20.051. Sound, Noise, Music - (New Course)

Catalog Number: 67732 Enrollment: Limited to 15.

Damon Krukowski

Half course (fall term). M., W., at 11.

Music is everywhere around us—entangled with (and a part of) the many noises we experience. And yet we tend to think of music as distinct from other sounds, isolating it in our minds even when we can’t with our ears. In this course, we will question that isolation, and examine music as an aspect of its greater environment - natural, social, and technological—rather than apart from it

Expository Writing 20.052. Sound, Noise, Music - (New Course)

Catalog Number: 82839 Enrollment: Limited to 15.

Damon Krukowski



Half course (spring term). M., W., at 10.

Music is everywhere around us—entangled with (and a part of) the many noises we experience. And yet we tend to think of music as distinct from other sounds, isolating it in our minds even when we can't with our ears. In this course, we will question that isolation, and examine music as an aspect of its greater environment - natural, social, and technological—rather than apart from it

Expository Writing 20.053. Sound, Noise, Music - (New Course)

Catalog Number: 31317 Enrollment: Limited to 15.

Damon Krukowski

Half course (spring term). M., W., at 11.

Music is everywhere around us—entangled with (and a part of) the many noises we experience. And yet we tend to think of music as distinct from other sounds, isolating it in our minds even when we can't with our ears. In this course, we will question that isolation, and examine music as an aspect of its greater environment - natural, social, and technological—rather than apart from it

Expository Writing 20.054. Confronting the Problem of Evil - (New Course)

Catalog Number: 12382 Enrollment: Limited to 15.

Courtney Bickel Lamberth

Half course (spring term). Tu., Th., at 12.

Common sense confirms the reality of evil. Though the term "evil" is part of our ordinary language and experience, what do we really mean when we use the word to describe a person, an action, or an historical event? Why does the word pack an emotional punch that other terms—immoral, wicked, cruel, unjust—do not? The course examines several important modern philosophical, theological and literary texts on the problem of evil.

Expository Writing 20.055. The Art of Crime - (New Course)

Catalog Number: 79011 Enrollment: Limited to 15.

Matthew T. Levay

Half course (fall term). M., W., at 9.

This course examines the problem of criminality from a variety of disciplinary perspectives, focusing especially on the representation of crime in fiction and film. Beginning with nineteenth-century anthropological debates on the origins of criminality, the course proceeds to consider the ominous figure of the criminal in Victorian detective fiction, a twentieth-century American novel, and contemporary serial killer films, as well as the historical and disciplinary contexts that give such representations their cultural power.

Expository Writing 20.056. The Art of Crime - (New Course)

Catalog Number: 27489 Enrollment: Limited to 15.

Matthew T. Levay

Half course (fall term). M., W., at 10.

This course examines the problem of criminality from a variety of disciplinary perspectives, focusing especially on the representation of crime in fiction and film. Beginning with nineteenth-century anthropological debates on the origins of criminality, the course proceeds to consider the ominous figure of the criminal in Victorian detective fiction, a twentieth-century American



novel, and contemporary serial killer films, as well as the historical and disciplinary contexts that give such representations their cultural power.

Expository Writing 20.057. The Art of Crime - (New Course)

Catalog Number: 94118 Enrollment: Limited to 15.

Matthew T. Levay

Half course (spring term). M., W., at 9.

This course examines the problem of criminality from a variety of disciplinary perspectives, focusing especially on the representation of crime in fiction and film. Beginning with nineteenth-century anthropological debates on the origins of criminality, the course proceeds to consider the ominous figure of the criminal in Victorian detective fiction, a twentieth-century American novel, and contemporary serial killer films, as well as the historical and disciplinary contexts that give such representations their cultural power.

Expository Writing 20.058. The Art of Crime - (New Course)

Catalog Number: 42596 Enrollment: Limited to 15.

Matthew T. Levay

Half course (spring term). M., W., at 10.

This course examines the problem of criminality from a variety of disciplinary perspectives, focusing especially on the representation of crime in fiction and film. Beginning with nineteenth-century anthropological debates on the origins of criminality, the course proceeds to consider the ominous figure of the criminal in Victorian detective fiction, a twentieth-century American novel, and contemporary serial killer films, as well as the historical and disciplinary contexts that give such representations their cultural power.

Expository Writing 20.059. Interpreting the Civil Rights Movement - (New Course)

Catalog Number: 57703 Enrollment: Limited to 15.

Ariane Mary Liazos

Half course (fall term). Tu., Th., at 10.

In this writing seminar, we investigate the work of remembering and interpreting the African-American civil rights movement of the mid-twentieth century. We focus on the meaning and use of nonviolent protest as well as the relative importance of the federal government and grassroots activism. As we investigate these topics, we consider the kinds of evidence scholars draw on to construct their interpretations, including speeches by prominent leaders, newspaper accounts, oral histories, memoirs, and government documents.

Expository Writing 20.060. Interpreting the Civil Rights Movement - (New Course)

Catalog Number: 21288 Enrollment: Limited to 15.

Ariane Mary Liazos

Half course (fall term). Tu., Th., at 11.

In this writing seminar, we investigate the work of remembering and interpreting the African-American civil rights movement of the mid-twentieth century. We focus on the meaning and use of nonviolent protest as well as the relative importance of the federal government and grassroots activism. As we investigate these topics, we consider the kinds of evidence scholars draw on to construct their interpretations, including speeches by prominent leaders, newspaper accounts, oral histories, memoirs, and government documents.



Expository Writing 20.061. Interpreting the Civil Rights Movement - (New Course)

Catalog Number: 87917 Enrollment: Limited to 15.

Ariane Mary Liazos

Half course (spring term). Tu., Th., at 10.

In this writing seminar, we investigate the work of remembering and interpreting the African-American civil rights movement of the mid-twentieth century. We focus on the meaning and use of nonviolent protest as well as the relative importance of the federal government and grassroots activism. As we investigate these topics, we consider the kinds of evidence scholars draw on to construct their interpretations, including speeches by prominent leaders, newspaper accounts, oral histories, memoirs, and government documents.

Expository Writing 20.062. Interpreting the Civil Rights Movement - (New Course)

Catalog Number: 36395 Enrollment: Limited to 15.

Ariane Mary Liazos

Half course (spring term). Tu., Th., at 11.

In this writing seminar, we investigate the work of remembering and interpreting the African-American civil rights movement of the mid-twentieth century. We focus on the meaning and use of nonviolent protest as well as the relative importance of the federal government and grassroots activism. As we investigate these topics, we consider the kinds of evidence scholars draw on to construct their interpretations, including speeches by prominent leaders, newspaper accounts, oral histories, memoirs, and government documents.

Expository Writing 20.063. Gothic Fiction - (New Course)

Catalog Number: 51502 Enrollment: Limited to 15.

Michele C. Martinez

Half course (fall term). Tu., Th., at 11.

This course explores the meaning and function of Gothic literature, a genre characterized by secrecy, perversion, madness, and death. In our first unit, short stories—of various centuries and nations—will allow us to develop a working definition of Gothic. In unit two we'll interpret Jane Austen's Gothic spoof *Northanger Abbey* in the context of both popular fiction and eighteenth-century debates about reading. The third unit introduces research methods that focus on the works of Edgar Allan Poe.

Expository Writing 20.064. Gothic Fiction - (New Course)

Catalog Number: 66609 Enrollment: Limited to 15.

Michele C. Martinez

Half course (spring term). Tu., Th., at 11.

This course explores the meaning and function of Gothic literature, a genre characterized by secrecy, perversion, madness, and death. In our first unit, short stories—of various centuries and nations—will allow us to develop a working definition of Gothic. In unit two we'll interpret Jane Austen's Gothic spoof *Northanger Abbey* in the context of both popular fiction and eighteenth-century debates about reading. The third unit introduces research methods that focus on the works of Edgar Allan Poe.

Expository Writing 20.065. Gothic Fiction - (New Course)

Catalog Number: 15087 Enrollment: Limited to 15.



Michele C. Martinez

Half course (spring term). Tu., Th., at 12.

This course explores the meaning and function of Gothic literature, a genre characterized by secrecy, perversion, madness, and death. In our first unit, short stories—of various centuries and nations—will allow us to develop a working definition of Gothic. In unit two we'll interpret Jane Austen's Gothic spoof *Northanger Abbey* in the context of both popular fiction and eighteenth-century debates about reading. The third unit introduces research methods that focus on the works of Edgar Allan Poe.

Expository Writing 20.066. Cross-Cultural Contact Zones - (New Course)

Catalog Number: 81716 Enrollment: Limited to 15.

Srilata Mukherjee

Half course (fall term). M., W., at 12.

How does fiction represent cross-cultural encounters between Eurocentric and non-Eurocentric worlds? In what ways do the specific social and political circumstances under which these contacts occur influence the nature of the cross-cultural encounters? Do issues of power, class, and gender function differently in cross-cultural environments for the racial groups involved than they would within a single culture? In exploring literature about three kinds of cross-cultural encounters—transient, colonial/postcolonial, and immigrant—we'll pose such resonant questions.

Expository Writing 20.067. Cross-Cultural Contact Zones - (New Course)

Catalog Number: 30194 Enrollment: Limited to 15.

Srilata Mukherjee

Half course (fall term). M., W., at 1.

How does fiction represent cross-cultural encounters between Eurocentric and non-Eurocentric worlds? In what ways do the specific social and political circumstances under which these contacts occur influence the nature of the cross-cultural encounters? Do issues of power, class, and gender function differently in cross-cultural environments for the racial groups involved than they would within a single culture? In exploring literature about three kinds of cross-cultural encounters—transient, colonial/postcolonial, and immigrant—we'll pose such resonant questions.

Expository Writing 20.068. Cross-Cultural Contact Zones - (New Course)

Catalog Number: 96823 Enrollment: Limited to 15.

Srilata Mukherjee

Half course (spring term). M., W., at 12.

How does fiction represent cross-cultural encounters between Eurocentric and non-Eurocentric worlds? In what ways do the specific social and political circumstances under which these contacts occur influence the nature of the cross-cultural encounters? Do issues of power, class, and gender function differently in cross-cultural environments for the racial groups involved than they would within a single culture? In exploring literature about three kinds of cross-cultural encounters—transient, colonial/postcolonial, and immigrant—we'll pose such resonant questions.

Expository Writing 20.069. Cross-Cultural Contact Zones - (New Course)

Catalog Number: 45301 Enrollment: Limited to 15.

Srilata Mukherjee

Half course (spring term). M., W., at 1.



How does fiction represent cross-cultural encounters between Eurocentric and non-Eurocentric worlds? In what ways do the specific social and political circumstances under which these contacts occur influence the nature of the cross-cultural encounters? Do issues of power, class, and gender function differently in cross-cultural environments for the racial groups involved than they would within a single culture? In exploring literature about three kinds of cross-cultural encounters-transient, colonial/postcolonial, and immigrant-we'll pose such resonant questions.

Expository Writing 20.070. The Ethics of Human Experimentation - (New Course)

Catalog Number: 97946 Enrollment: Limited to 15.

Donna L. Mumme

Half course (fall term). M., W., at 10.

To learn about human biology and behavior, researchers often use people as research subjects. Although such research has produced many social benefits, it sometimes comes at a cost to study participants. In this course, you will weigh the costs and benefits of a controversial psychological study, take a psychological approach to understanding why unethical research practices occur, and consider how research can be done to maximize its impact while minimizing the risks to human participants.

Expository Writing 20.071. The Ethics of Human Experimentation - (New Course)

Catalog Number: 46424 Enrollment: Limited to 15.

Donna L. Mumme

Half course (fall term). M., W., at 11.

To learn about human biology and behavior, researchers often use people as research subjects. Although such research has produced many social benefits, it sometimes comes at a cost to study participants. In this course, you will weigh the costs and benefits of a controversial psychological study, take a psychological approach to understanding why unethical research practices occur, and consider how research can be done to maximize its impact while minimizing the risks to human participants.

Expository Writing 20.072. The Ethics of Human Experimentation - (New Course)

Catalog Number: 61531 Enrollment: Limited to 15.

Donna L. Mumme

Half course (spring term). M., W., at 10.

To learn about human biology and behavior, researchers often use people as research subjects. Although such research has produced many social benefits, it sometimes comes at a cost to study participants. In this course, you will weigh the costs and benefits of a controversial psychological study, take a psychological approach to understanding why unethical research practices occur, and consider how research can be done to maximize its impact while minimizing the risks to human participants.

Expository Writing 20.073. The Ethics of Human Experimentation - (New Course)

Catalog Number: 10009 Enrollment: Limited to 15.

Donna L. Mumme

Half course (spring term). M., W., at 11.

To learn about human biology and behavior, researchers often use people as research subjects. Although such research has produced many social benefits, it sometimes comes at a cost to study



participants. In this course, you will weigh the costs and benefits of a controversial psychological study, take a psychological approach to understanding why unethical research practices occur, and consider how research can be done to maximize its impact while minimizing the risks to human participants.

Expository Writing 20.074. Storied Landscapes - (New Course)

Catalog Number: 60408 Enrollment: Limited to 15.

Tess O'Toole

Half course (fall term). M., W., at 11.

How do literary works and films frame landscape so as to tell stories of the self and the nation? We'll begin by close reading the topographical themes and imagery of British poetry about World War I. Next, we'll view the iconic American film *Oklahoma!* through the lens of historical arguments about the frontier's role in forging the American character. Finally, you'll develop your own research topic pertaining to fiction or films about the American suburb.

Expository Writing 20.075. Storied Landscapes - (New Course)

Catalog Number: 75515 Enrollment: Limited to 15.

Tess O'Toole

Half course (fall term). M., W., at 12.

How do literary works and films frame landscape so as to tell stories of the self and the nation? We'll begin by close reading the topographical themes and imagery of British poetry about World War I. Next, we'll view the iconic American film *Oklahoma!* through the lens of historical arguments about the frontier's role in forging the American character. Finally, you'll develop your own research topic pertaining to fiction or films about the American suburb.

Expository Writing 20.076. Storied Landscapes - (New Course)

Catalog Number: 23993 Enrollment: Limited to 15.

Tess O'Toole

Half course (spring term). M., W., at 11.

How do literary works and films frame landscape so as to tell stories of the self and the nation? We'll begin by close reading the topographical themes and imagery of British poetry about World War I. Next, we'll view the iconic American film *Oklahoma!* through the lens of historical arguments about the frontier's role in forging the American character. Finally, you'll develop your own research topic pertaining to fiction or films about the American suburb.

Expository Writing 20.077. Storied Landscapes - (New Course)

Catalog Number: 90622 Enrollment: Limited to 15.

Tess O'Toole

Half course (spring term). M., W., at 12.

How do literary works and films frame landscape so as to tell stories of the self and the nation? We'll begin by close reading the topographical themes and imagery of British poetry about World War I. Next, we'll view the iconic American film *Oklahoma!* through the lens of historical arguments about the frontier's role in forging the American character. Finally, you'll develop your own research topic pertaining to fiction or films about the American suburb.



Expository Writing 20.078. Jewish Identity in American Culture - (New Course)

Catalog Number: 54207 Enrollment: Limited to 15.

Jane A. Rosenzweig

Half course (spring term). Tu., Th., at 11.

This course will examine representations of Jews in American culture and the evolution of Jewish-American culture since World War II, as well as how shifts in the cultural conversation about minorities in America have affected our understanding of Jewish identity. We will question how recent works of literature, art, film, and television challenge and reinforce Jewish stereotypes, and how they continue to shape our ideas about assimilation, the Holocaust, ethnicity, and religious practice in America.

Expository Writing 20.079. Tales of Murder - (New Course)

Catalog Number: 69314 Enrollment: Limited to 15.

Emily J. Shelton

Half course (fall term). Tu., Th., at 10.

The Sixth Commandment is succinct: "Thou shalt not commit murder." And yet descriptions of murder feature prominently in Western literature and culture. Why are we so engaged by the telling of these grim tales, and what is at stake in their being told? By analyzing the challenges of shaping coherent narratives around incomprehensible acts, this course examines the ethical and aesthetic implications of mediating a phenomenon as elusive, and terrifyingly actual, as murder.

Expository Writing 20.080. Tales of Murder - (New Course)

Catalog Number: 17792 Enrollment: Limited to 15.

Emily J. Shelton

Half course (fall term). Tu., Th., at 11.

The Sixth Commandment is succinct: "Thou shalt not commit murder." And yet descriptions of murder feature prominently in Western literature and culture. Why are we so engaged by the telling of these grim tales, and what is at stake in their being told? By analyzing the challenges of shaping coherent narratives around incomprehensible acts, this course examines the ethical and aesthetic implications of mediating a phenomenon as elusive, and terrifyingly actual, as murder.

Expository Writing 20.081. Tales of Murder - (New Course)

Catalog Number: 84421 Enrollment: Limited to 15.

Emily J. Shelton

Half course (spring term). Tu., Th., at 10.

The Sixth Commandment is succinct: "Thou shalt not commit murder." And yet descriptions of murder feature prominently in Western literature and culture. Why are we so engaged by the telling of these grim tales, and what is at stake in their being told? By analyzing the challenges of shaping coherent narratives around incomprehensible acts, this course examines the ethical and aesthetic implications of mediating a phenomenon as elusive, and terrifyingly actual, as murder.

Expository Writing 20.082. Tales of Murder - (New Course)

Catalog Number: 32899 Enrollment: Limited to 15.

Emily J. Shelton

Half course (spring term). Tu., Th., at 11.

The Sixth Commandment is succinct: "Thou shalt not commit murder." And yet descriptions of



murder feature prominently in Western literature and culture. Why are we so engaged by the telling of these grim tales, and what is at stake in their being told? By analyzing the challenges of shaping coherent narratives around incomprehensible acts, this course examines the ethical and aesthetic implications of mediating a phenomenon as elusive, and terrifyingly actual, as murder.

Expository Writing 20.083. Poetry at the Limit - (New Course)

Catalog Number: 99528 Enrollment: Limited to 15.

Zachary Sifuentes

Half course (spring term). M., W., at 11.

Poetry has long been a space for solace and contemplation, particularly throughout the wars of the twentieth century. How has poetry changed in the past 100 years as it attempts to apprehend atrocity, genocide and total war? We read poems that describe ruthless violence, that respond to works of art, and that address contemporary refugee camps and HIV hospices. In such forlorn environments, can poetry remain “poetic”?

Expository Writing 20.084. Urban America - (New Course)

Catalog Number: 76638 Enrollment: Limited to 15.

Lindsay M. Silver Cohen

Half course (fall term). Tu., Th., at 12.

This course addresses questions about the past and present American urban experience by analyzing cities from various disciplinary perspectives. Unit I hones critical skills through close readings of *How the Other Half Lives*, an exposé of late nineteenth-century New York. Unit II emphasizes the importance of context through analysis of the play *A Raisin in the Sun*

Film and Visual Studies

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

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Justin Weir, Professor of Slavic Languages and Literatures



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- [*Anthropology 2835r. Sensory Ethnography I](#)
- [*Anthropology 2836r. Sensory Ethnography II: Studio Course]
- [*Anthropology 2837. Media Archaeology of Place - \(New Course\)](#)
- [Comparative Literature 273. Approaches to Modernity: The Metropolis]
- [East Asian Studies 250. From Propaganda to Testimony: East Asian History on Film: Seminar - \(New Course\)](#)
- [*History of Art and Architecture 277s. Circa 1970]
- [History of Science 290. Critical History: Curating Images, Objects, Media: Seminar - \(New Course\)](#)
- [History of Science 291. Science and Art \(Graduate Seminar in General Education\) - \(New Course\)](#)
- [Slavic 240. Soviet Cinema and the Bolshevik Revolution: Seminar - \(New Course\)](#)
- [Slavic 281. Literature, Film, and Visual Arts in Russia, 1920-1930]
- [Slavic 282 (formerly Slavic 141). Literature, Film, and Visual Art in Contemporary Russia]
- [Studies of Women, Gender, and Sexuality 1226. Sex and Power in Modern Latin America and U.S. Latino Culture](#)
- [*Visual and Environmental Studies 220. The Animal Moment: The Visual and Verbal Animal (Graduate Seminar in General Education)]
- [*Visual and Environmental Studies 230. Style and Structure in Documentary - \(New Course\)](#)
- [*Visual and Environmental Studies 270. Proseminar in Film and Visual Studies: History](#)
- [*Visual and Environmental Studies 271. Proseminar in Film and Visual Studies: Theory](#)
- [*Visual and Environmental Studies 275a \(formerly Visual and Environmental Studies 175a\). Framing the I: Autobiography and Film](#)
- [*Visual and Environmental Studies 285x (formerly *Visual and Environmental Studies 185x). Visual Fabrics: Film, Fashion and Material Culture: Seminar]
- *Visual and Environmental Studies 301. Film Studies Workshop
- *Visual and Environmental Studies 310. Reading and Research
- *Visual and Environmental Studies 320. Directed Study

Folklore and Mythology

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Members of the Standing Committee on Degrees in Folklore and Mythology



Maria Tatar, John L. Loeb Professor of Germanic Languages and Literatures and of Folklore and Mythology (*Chair*) (*on leave 2010-11*)

Stephen A. Mitchell, Professor of Scandinavian and Folklore (*Acting Chair*)

Lisa T. Brooks, Assistant Professor of History and Literature and of Folklore and Mythology

Julie A. Buckler, Professor of Slavic Languages and Literatures, Harvard College Professor (*on leave 2010-11*)

David F. Elmer, Assistant Professor of the Classics (*on leave spring term*)

Deborah D. Foster, Senior Lecturer on Folklore and Mythology (*Director of Undergraduate Studies*)

John T. Hamilton, Professor of Comparative Literature (*on leave 2010-11*)

Joseph C. Harris, Francis Lee Higginson Professor of English Literature and Professor of Folklore

Michael Herzfeld, Professor of Anthropology

Peter Machinist, Hancock Professor of Hebrew and other Oriental Languages

Catherine McKenna, Margaret Brooks Robinson Professor of Celtic Languages and Literatures

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

Kimberley C. Patton, Professor of the Comparative and Historical Study of Religion (*Divinity School*)

Michael J. Puett, Professor of Chinese History

Panagiotis Roilos, Professor of Modern Greek Studies and of Comparative Literature

Jan Ziolkowski, Arthur Kingsley Porter Professor of Medieval Latin

Other Faculty Offering Instruction in Folklore and Mythology

Felicity A. Lufkin

Tutorials in Folklore and Mythology

Primarily for Undergraduates

Please note that Culture and Belief 16 (formerly Folklore and Mythology 100). Performance, Tradition and Cultural Studies: An Introduction to Folklore and Mythology is required for the concentration.

[Folklore and Mythology 90h. Hero and Trickster]

Catalog Number: 18681 Enrollment: Limited to 12. for undergraduates only.

Deborah D. Foster

Half course (fall term). Th., 2–4.

Human imagination has conjured two enduring mythic characters, which create habitable worlds for people in stories from cultures all over the world. Sometimes branded Hero, sometimes Trickster, these two share traits and antics, yet they seem to endorse fundamentally different values. This seminar examines both hero and trickster in several cultural contexts, comparing them with each other and with their correlates worldwide, primarily in oral traditions, but also



where each has migrated to other media.

Note: Expected to be given in 2011–12.

Folklore and Mythology 90j. American Folklore: Plants and People - (New Course)

Catalog Number: 97692 Enrollment: Limited to 12.

Lisa T. Brooks

Half course (spring term). M., 1–3.

This seminar invites participants to explore the complex relationship between people and plants in the American environment and especially, the American imagination. We will read texts by Michael Pollan, William Bartram, Annie Proulx, Susan Orleans and Leslie Marmon Silko, explore traditional Native American plant stories, and get out on the ground with the people who work most closely with plants.

***Folklore and Mythology 91r. Supervised Reading and Research**

Catalog Number: 2425

Deborah D. Foster and members of the Committee

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

Instruction and direction of reading on material not treated in regular courses of instruction; special work on topics in folklore, mythology, and oral literature. Normally available only to concentrators in Folklore and Mythology.

Note: Applicants must consult the Chairman or the Head Tutor of the Committee. The signature of the Chairman or the Head Tutor is required.

***Folklore and Mythology 97. Fieldwork and Ethnography in Folklore**

Catalog Number: 3789 Enrollment: Limited to 12.

Deborah D. Foster

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

Introduces concentrators to the study of traditions - their performance, collection, representation and interpretation. Both ethnographic and theoretical readings serve as the material for class discussion and the foundation for experimental fieldwork projects.

Note: Required of all, and limited to, concentrators.

***Folklore and Mythology 98a. History and Theory of Folklore Methodology**

Catalog Number: 5039 Enrollment: Limited to 12.

Joseph C. Harris

Half course (fall term). W., 2–4. EXAM GROUP: 7, 8

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 especially on theoretical contributions to the study of folklore, mythology, and oral literature in recent decades. Readings from Bauman, Bronner, Dundes, Georges, Lord, Oring, Propp, Tedlock, and Zumwalt among many others.

Note: Required of all, and limited to, concentrators.

***Folklore and Mythology 98b (formerly *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 Chairman of the Committee on Degrees in Folklore and Mythology required. Normally taken in the second term of the junior year.

***Folklore and Mythology 99. Tutorial — Senior Year**

Catalog Number: 3886

Deborah D. Foster and members of the Committee

Full course. Hours to be arranged.

Note: Required of all concentrators. The signature of the Head Tutor or Chairman of the Committee on Degrees in Folklore and Mythology required. Graded Sat/Unsat.

Folklore and Mythology Courses

Please consult our cross-listings for other courses that may be counted for Folklore & Mythology concentration credit. Interested freshmen in particular should be aware of Freshman Seminar 32s. The Twilight of the Gods: Ragnarök and the Apocalyptic Tradition, and Freshman Seminar 32v. The Art of Storytelling. Upperclassmen should be aware of Literature 162. Theory and Methods in Comparative Oral Traditions: Seminar; Religion 17. Myth in History: An Introduction to Religion and to the Study of Religion; Religion 18. Realms of Power: Animals in Religion I; Indian Studies 219. Introduction to World Mythology; and others taught by Folklore & Mythology committee members.

For Undergraduates and Graduates

Folklore and Mythology 106. Witchcraft and Charm Magic

Catalog Number: 8749

Stephen A. Mitchell

Half course (spring term). Tu., Th., at 10; W., at 10; W., at 12; Th., at 4. EXAM GROUP: 12

This course examines witchcraft (and the "magical world view") from cross-cultural, historical, and literary perspectives. Although witches and witchcraft are considered in their non-Western settings, the course focuses on the melding of Christian and pagan views of witchcraft and magic in the European Middle Ages, and the evolving construction of witchcraft ideologies through the witch crazes of the sixteenth and seventeenth centuries to the rise of modern paganism.

Folklore and Mythology 114. Embodied Expression/Expressive Body: Dance in Cultural Context

Catalog Number: 7982 Enrollment: Limited to 16.

Deborah D. Foster

Half course (fall term). Th., 1–3:30. EXAM GROUP: 15, 16, 17

An examination of the ways in which the dancing body internalizes and communicates cultural knowledge to both dancer and observer. By participating in dance workshops, watching dance performances (live and on film), and reading ethnographic and theoretical texts, we attempt to



understand the emergent meaning of dance performances from multiple perspectives.

Note: This course, when taken for a letter grade, meets the General Education requirement for Culture and Belief and the Core area requirement for Literature and Arts B.

Folklore and Mythology 126. Continuing Oral Traditions in Indigenous Communities

Catalog Number: 9787

Lisa T. Brooks

Half course (fall term). Tu., 1-3. EXAM GROUP: 15, 16

Rather than textual artifacts of a cultural past, Indigenous oral literatures are living traditions in particular landscapes, activities in which communities are engaged. Features trips to local Native places and engagement with communal tellings and literary texts from around the globe, emphasizing the interdependent relationship between the spoken and the written word, and the importance of local knowledge in an increasingly global indigenous network.

Note: This course, when taken for a letter grade, meets the General Education requirement for Culture and Belief. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for either Foreign Cultures or Literature and Arts C, but not both.

[Folklore and Mythology 170. Folk Art in the Modern World]

Catalog Number: 1278

Felicity A. Lufkin

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

Folk art is a world-wide phenomenon, with a lasting importance to modern culture and to national identities. But what are the commonalities and variations in how folk art is defined, what types are prized, and how is it studied, perpetuated, and preserved?

Note: Expected to be given in 2011–12.

[Folklore and Mythology 171. Chinese New Year Pictures: Folk Art and Visual Culture]

Catalog Number: 0485

Felicity A. Lufkin

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

The colorful woodcut prints now commonly known as New Year pictures or *nianhua* are one of China's best known folk arts, thriving into the 20th c. We will look at how these prints were made and distributed, the roles they played in everyday life, and what they can tell us about the interactions of high and low, rural and urban, and tradition and modernity within Chinese culture and art.

Note: Expected to be given in 2011–12.

***Folklore and Mythology 191r. Supervised Reading and Research**

Catalog Number: 3255

Deborah D. Foster and members of the Committee

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

Advanced reading in topics not covered in regular courses.

Cross-listed Courses



[Aesthetic and Interpretive Understanding 17 (formerly Literature and Arts B-78).
Soundscapes: Exploring Music in a Changing World]

[Aesthetic and Interpretive Understanding 27 (formerly Literature and Arts A-17).
Childhood: Its History, Philosophy, and Literature]

[Aesthetic and Interpretive Understanding 33 \(formerly Classical Studies 154\). Ancient Fictions: The Ancient Novel in Context](#)

[Aesthetic and Interpretive Understanding 39 \(formerly Chinese Literature 150\). Old Tales for New Times: The Appropriation of Folklore in Modern and Contemporary China](#)

[African and African American Studies 104. Witchcraft, Rituals and Colonialism - \(New Course\)](#)

[African and African American Studies 187. African Religions](#)

[Akkadian 141r (formerly Ancient Near East 141r). Akkadian Myths and Epics]

[Ancient Near East 124. Myth and Myth-Making in the Biblical and Ancient Near Eastern World]

[Anthropology 1630. Spirits, People, Place and Things: The Anthropology of Religion]

[Anthropology 1640. Language and Culture](#)

[Armenian 120. Armenian Magical Texts]

[Armenian Studies 100. Armenian Epic: Seminar](#)

[Celtic 103. Celts: People or Myth? - \(New Course\)](#)

[Celtic 114. Early Irish Historical Tales](#)

[Celtic 137. Celtic Mythology]

[Celtic 138. Narrative Traditions of Medieval Wales]

[Celtic 184. The Táin](#)

[Celtic 188. Scottish Gaelic Poetry]

[Celtic 194. Celtic Bards and Their Poems - \(New Course\)](#)

[Celtic 227. Seminar: Welsh Bardic Poetry]

[Culture and Belief 15. The Presence of the Past]

[Culture and Belief 16 \(formerly Folklore and Mythology 100\). Performance, Tradition and Cultural Studies: An Introduction to Folklore and Mythology](#)

[Culture and Belief 22. The Heroic and the Anti-Heroic in Classical Greek Civilization](#)

[Culture and Belief 28. Hindu Worlds of Art and Culture]

[Culture and Belief 35. Classical Mythology]

[Culture and Belief 38 (formerly Literature and Arts C-28). Icon, Ritual, Text: Reading the Culture of Medieval Rus']

[Early Iranian Civilizations 102. Old Iranian Religion/Zoroastrianism](#)

[*English 51. Poets: Ballads, Sonnets, Literary History, and Poetic Form](#)

[*Freshman Seminar 32s. The Twilight of the Gods: Ragnarök and the Apocalyptic Tradition - \(New Course\)](#)

[*Freshman Seminar 32v. The Art of Storytelling](#)

[German 166. Storytelling and Enchantment: The Brothers Grimm and Hans Christian Andersen]

[Germanic Studies 268. Ethnopoetics and Authenticity in Northern Europe - \(New Course\)](#)

[*History and Literature 90o. Native American Literature: Narrations of Nationhood](#)

[Indian Studies 219. Introduction to World Mythology - \(New Course\)](#)

[Italian 141. Renaissance Epic]

[Japanese History 126. Shinto: Conference Course](#)



Japanese Literature 163. From Myth to Manga: A Survey of Pre-Modern Japanese Literature in Translation

[Jewish Studies 104. Introduction to Yiddish Culture]

[*Literature 121. *1001 Nights*: Adaptations, Transformations and Translations]

Literature 162 (formerly *Comparative Literature 207). Theory and Methods in Comparative Oral Traditions: Seminar

[Literature 166 (formerly Comparative Literature 166). The Comic Tradition in Jewish Culture]

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

Modern Greek 145 (formerly Comparative Literature 145). Dreams and Literature

Music 201b. Current Methods in Ethnomusicology

Music 206r. Research Methods in Ethnomusicology: Musical Ethnography

[Music 208r. Ethnomusicology: Seminar]

[Music 209r. Ethnomusicology: Seminar]

Portuguese 180. Themes of Enchantment, Radiance and Epiphany in Brazilian Culture - (New Course)

Religion 17. Myth in History: An Introduction to Religion and to the Study of Religion

Religion 18 (formerly Religion 1014). Realms of Power: Animals in Religion

Religion 1016. The Shock of the Old: Conference Course - (New Course)

***Religion 1027. Weeping in the Religious Imagination: Seminar**

Religion 2070. Topics in Modern Japanese Religions

[Scandinavian 150. The Vikings and the Nordic Heroic Tradition]

[Scandinavian 160a. Old Norse Language, Literature, and Culture: The Viking Legacy]

[Scandinavian 160br. Old Norse Language, Literature, and Culture: Mythology]

Germanic Languages and Literatures

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Department of Germanic Languages and Literatures

Judith Ryan, Robert K. and Dale J. Weary Professor of German and Comparative Literature
(Chair)

Peter J. Burgard, Professor of German (*Director of Graduate Studies*)

Thomas Herold, College Fellow in the Department of Germanic Languages and Literatures

Ursula Lindqvist, Preceptor in Scandinavian (*Director of Undergraduate Studies, Scandinavian*)

Charles P. Lutcavage, Senior Preceptor in German

Stephen A. Mitchell, Professor of Scandinavian and Folklore

Lisa Caroline Parkes, Senior Preceptor in German (*Director of Undergraduate Studies, German*)



Eric Rentschler, Arthur Kingsley Porter Professor of Germanic Languages and Literatures (*on leave 2010-11*)

Oliver Simons, Assistant Professor of Germanic Languages and Literatures

Maria Tatar, John L. Loeb Professor of Germanic Languages and Literatures and of Folklore and Mythology (*on leave 2010-11*)

Markus Wilczek, Assistant Professor of Germanic Languages and Literatures (*on leave 2010-11*)

Other Faculty Offering Instruction in the Department of Germanic Languages and Literatures

Karl S. Guthke, Kuno Francke Professor of German Art and Culture, Emeritus

Joseph C. Harris, Francis Lee Higginson Professor of English Literature and Professor of Folklore

Jay Jasanoff, Diebold Professor of Indo-European Linguistics and Philology (*on leave fall term*)

Graduate students in the Faculty of Arts and Sciences may enroll in certain foreign language courses for the grade of Satisfactory/Unsatisfactory. Students should consult with course heads to determine if a course is offered on that basis.

For more information on the Department, please visit www.fas.harvard.edu/~german.

German

Primarily for Undergraduates

The placement test in German is offered during Freshman Week and during Intersession.

German A. Beginning German

Catalog Number: 4294

Lisa Parkes and members of the Department

Full course (indivisible). M. through Th., sections at 9, 10, or 11. EXAM GROUP: 2, 11

An introduction to German language and culture designed for students with little or no knowledge of the language. Encompasses all four skills: speaking, listening, reading, and writing. Class sessions emphasize the development of oral proficiency. Instruction is supplemented by literary and non-literary texts, videos, and Internet activities.

Note: The first half of this course may not be taken as a half course for credit toward the AB degree; there are no exceptions to this rule. May not be taken Pass/Fail. Not open to auditors.

German Ax. German for Reading Knowledge

Catalog Number: 7177

Charles P. Lutcavage

Half course (fall term; repeated spring term). M., W., 4-5:30. EXAM GROUP: 9

Development of reading proficiency for students with little or no knowledge of German.

Emphasizes translation of academic German prose into English.

Note: Not open to auditors.



German Bab. Beginning German (Intensive)

Catalog Number: 8629

Lisa Parkes and members of the Department

Full course (fall term; repeated spring term). Fall: M. through F., 9 and an additional hour to be arranged. Spring: M. through F., 9 or 12 and an additional hour to be arranged. EXAM GROUP: 2, 11

A complete first-year course in one term for students with no knowledge of German. Provides an introduction to German language and culture encompassing all four skills: speaking, listening, reading, and writing. Class sessions emphasize the development of oral proficiency. Instruction is supplemented by literary and non-literary texts, videos, and Internet activities.

Note: May not be taken Pass/Fail. Not open to auditors.

German Ca. Intermediate German: Speaking, Listening Comprehension, Reading, and Writing

Catalog Number: 5779

Lisa Parkes and members of the Department

Half course (fall term). Section I: M. through Th., at 9; Section II: M. through Th., at 10; Section III: M. through Th., at 11; Section IV: M. through Th., at 12. EXAM GROUP: 2, 11

Aims at enhancing students' proficiency in all four skills, with special emphasis on speaking/discussion. The course also offers a thorough grammar review. Course materials consist of literary and non-literary texts and films that address a broad range of cultural topics.

Note: Conducted in German. May not be taken Pass/Fail. Not open to auditors.

German Cb. Intermediate German: Speaking, Listening Comprehension, Reading, and Writing

Catalog Number: 2608

Lisa Parkes and members of the Department

Half course (spring term). M. through Th., at 9; M. through Th., at 12. EXAM GROUP: 2, 11

Continuation of German Ca. Discussion materials include literary and non-literary texts and film. Emphasis on speaking proficiency and on strengthening writing skills. Course includes a review of selected grammatical structures and exercises in vocabulary building.

Note: Conducted in German. May not be taken Pass/Fail. Not open to auditors.

Prerequisite: German Ca or permission of the instructor.

German Dab. Intermediate German (Intensive): Speaking, Listening Comprehension, Reading, and Writing

Catalog Number: 1351

Lisa Parkes and members of the Department

Full course (spring term). M., W., F., at 12, Tu., Th., 1-3. EXAM GROUP: 5

A complete second-year course in one term for students with a basic knowledge of German. Focuses on enhancing students' proficiency in all four skill areas with special emphasis on speaking/discussion. Extensive vocabulary-building exercises, a thorough grammar review, and an introduction to various cultural topics of the German-speaking countries through the use of literary and non-literary texts, Internet, multimedia resources, and film.

Note: Conducted in German. May not be taken Pass/Fail. Not open to auditors.



Prerequisite: German A, German Bab, a score of 450 or above on the Harvard placement test, or permission of the instructor.

German 50. German Drama and Theater

Catalog Number: 59998

Lisa Parkes

Half course (fall term). M., W., 3 - 4:30. EXAM GROUP: 8, 9

Close reading, analysis, and full production of a German play. The first part of this course provides an introduction to the principles and vocabulary of theater, as well as intensive pronunciation practice. The second part focuses on the rehearsal and production of a German play. Students participate on stage and collaborate on different aspects of the production, including costumes, set, sound, and program. Two performances take place at the end of the term.

Note: Taught in German.

German 61. Advanced Grammar and Reading

Catalog Number: 5179

Peter J. Burgard

Half course (fall term). Tu., Th., 9-11. EXAM GROUP: 11, 12

Advanced instruction in German through systematic study of the rules of grammar, their nuances, and their exceptions. Application of this knowledge through grammatical analyses and readings of short selections from sophisticated texts (e.g., Goethe, Kant, Kleist, Heine, Marx, Nietzsche, Kafka, Mann) prepares students for courses and academic work requiring advanced German reading comprehension. Further application through writing exercises.

Note: Conducted in German. Not open to auditors.

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

German 62. Advanced Conversation and Composition

Catalog Number: 2201

Thomas Herold

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

Framed as a composition and conversation workshop, this course explores the "two Germanies" in history, literature, and culture. Analyzing films and texts, students will expand their vocabulary, improve their writing, review points of grammar, and refine their conversation skills. Among other topics, we will consider the politics of the Cold War, terrorism in the 1970s, and the fall of the Berlin wall. Readings and screenings will include works by Johnson, Meinhof, Schulze, Wolf, and Becker.

Note: Films, readings, and discussions in German.

Prerequisite: German 61, equivalent preparation, or permission of the instructor.

German 65. Wirtschaftsdeutsch

Catalog Number: 2678

Charles P. Lutcavage

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

Communication, reading, and writing skills for a business environment. Attention to grammar and specialized vocabulary, as well as cultural and political issues relevant to conducting



business in German-speaking countries. Writing practice includes business correspondence and job applications. Supplemented by articles from the German-language press, the Internet, and videos.

Note: Conducted in German. May not be taken Pass/Fail. Not open to auditors.

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

German 66. Deutschland und Europa

Catalog Number: 6537

Charles P. Lutcavage

Half course (spring term). M., W., F., at 11 and 12. EXAM GROUP: 5

An advanced language course focusing on current events in Germany and the European Union. Readings, discussions, and projects based on a variety of contemporary political, social, economic, and cultural topics. Materials from various sources, including the German-language press, the Internet, videos, and television news.

Note: Conducted in German. May not be taken Pass/Fail. Not open to auditors.

Prerequisite: German 61, German 62, German 65, or permission of the instructor.

German 71. German Literature from Goethe to Nietzsche

Catalog Number: 3213

Thomas Herold

Half course (fall term). M., W., F., at 10. EXAM GROUP: 3

This course introduces students to exemplary works from the age of Goethe to the late 19th century as well as to key concepts of literary analysis. Readings include texts by Goethe, Kleist, Hoffmann, Büchner, Heine, Droste-Hülshoff, Keller, Fontane, Hauptmann, and Nietzsche.

Note: Readings and discussions in German. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

Prerequisite: German 61, equivalent preparation, or permission of the instructor.

German 72. German Literature from Kafka to Jelinek

Catalog Number: 5412

Oliver Simons

Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

The course focuses on central texts in 20th-century German literature. Key authors are read in pairs: for example, Arthur Schnitzler and Hugo von Hofmannsthal, Alfred Döblin and Franz Kafka, Paul Celan and Ingeborg Bachmann. The course provides an historical overview, sharpens German reading skills, and introduces basic concepts in literary analysis.

Note: Readings and discussions in German. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

Prerequisite: Equivalent preparation or permission of the instructor. German 71 is not a prerequisite for 72.

***German 91r. Supervised Reading and Research**

Catalog Number: 1059

Lisa Caroline Parkes

Half course (fall term; repeated spring term). Spring: W., 1–3.



Advanced reading in topics not covered in regular courses.

Note: Permission of the Director of Undergraduate Studies is required.

***German 99. Tutorial — Senior Year**

Catalog Number: 3286

Lisa Caroline Parkes

Full course. Hours to be arranged.

Open to concentrators writing an honors thesis under faculty supervision. Students are expected to enroll for the entire year. Permission of the Director of Undergraduate Studies is required.

Cross-listed Courses

Culture and Belief 16 (formerly Folklore and Mythology 100). Performance, Tradition and Cultural Studies: An Introduction to Folklore and Mythology

Ethical Reasoning 26. The Ethics of Atheism: Marx, Nietzsche, Freud - (New Course)

Folklore and Mythology 106. Witchcraft and Charm Magic

***Freshman Seminar 32s. The Twilight of the Gods: Ragnarök and the Apocalyptic Tradition - (New Course)**

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

Societies of the World 11. Germany in the World, 1600-2000

Yiddish A. Elementary Yiddish

Yiddish Ba. Intermediate Yiddish I

Yiddish Bb. Intermediate Yiddish II

Yiddish Ca. Advanced Yiddish I

Yiddish Cb. Advanced Yiddish II

For Undergraduates and Graduates

[German 120. Age of Goethe]

Catalog Number: 3797

Peter J. Burgard

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

Major movements in German literature and thought from the mid-18th to early 19th century: Enlightenment, Sentimentalism, Storm and Stress, Classicism, Romanticism. Readings include Mendelssohn, Kant, Klopstock, Lessing, Goethe, Lenz, Schiller, Hölderlin, Kleist, Schlegel, Novalis.

Note: Expected to be given in 2011–12. Expected to be omitted in 2009-10. Readings in German, discussions in English. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

[German 123. Fear and Pity: German Tragedies from the 18th to the 20th Century]

Catalog Number: 4720

Oliver Simons

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

Tragedies aim to stimulate the spectator's passion and sympathy. How precisely do they achieve that goal? Through close readings, the course contextualizes the tragedies of such authors as



Lessing, Goethe, Kleist, Büchner, Hebbel, Wedekind, and Hofmannsthal within major literary movements and the theoretical reflections of Nietzsche and Benjamin.

Note: Expected to be given in 2012–13. Readings and discussions in German.

German 125. Love and Betrayal in German Literatures - (New Course)

Catalog Number: 31698

Thomas Herold

Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

This course focuses on representative German texts whose topic is love and betrayal. As students examine the literary figuration of love and betrayal in significant works from different eras and genres, they will gain a sense of historical possibility and develop an appreciation for textual form, style, and structure. Readings will include works by Lessing, Goethe, Kleist, Fontane, Thomas Mann, Brecht, Bachmann, and Frisch; we will also study pertinent theoretical texts by Barthes and Luhmann.

Note: Discussion and readings in German.

German 149. Neurosis, Hysteria and the Schizoid - Pathologies of the Subject in Literature and Thought - (New Course)

Catalog Number: 23583

Oliver Simons

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

A survey of theories of madness in the 20th century, this course examines inventions and conceptualizations of the “insane” subject in psychoanalysis and otherwise. Particular attention will be paid to the literary history of these pathologies as well as to the creative potential of the unreasonable subject and its exemplary function in literary avantgarde and critical thought.

Theoretical readings include Freud, Lacan, Foucault, Cixous, Kristeva, Deleuze, and Guattari.

Note: Readings and discussion in English.

German 152. Introduction to Cultural Studies - (New Course)

Catalog Number: 90212

Oliver Simons

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

Cultural Studies has developed at the intersection of a range of fields, drawing on literary criticism, ethnography, the history of science, media studies, and others. Situating Cultural Studies as an academic discipline, this course examines methods for the analysis of a society’s creation of cultural meaning and knowledge. The course provides an introduction to essential tools and basic concepts for interdisciplinary inquiries in the humanities.

Note: Readings and discussion in English.

[German 166. Storytelling and Enchantment: The Brothers Grimm and Hans Christian Andersen]

Catalog Number: 29423

Maria Tatar

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

Investigates the folk tales collected by the Brothers Grimm and the literary fairy tales and novellas of Hans Christian Andersen. We will consider the origins of the tales, analyze their



staying power, and explore their global reach.

Note: Expected to be given in 2012–13. Readings and discussion in English, with occasional extra sessions for those with a reading knowledge of German and/or Danish. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

[German 170. Before Modernity]

Catalog Number: 3102

Markus Wilczek

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

While both Georg Büchner and Adalbert Stifter have been acknowledged as modernists avant la lettre, their work could hardly be more different. Through a comparison of Büchner's and Stifter's treatment of themes such as history, nature, violence, and the body as well as a comparison of their stylistic peculiarities (i.e., caesuras and repetition), this course examines two seemingly irreconcilable traditions in the formulation of modernity.

Note: Expected to be given in 2012–13. Readings and discussions in German.

German 182. German Music in Culture and Politics

Catalog Number: 95593

Lisa Caroline Parkes

Half course (spring term). M., W., 2–3:30. EXAM GROUP: 7, 8

Introduction to the relationship between 'German' music, history, society and politics from 1800 to present. By analyzing texted (vocal) music, this course revisits important and often controversial moments in German musical history, and traces the lives and afterlives of composers' works in political and cultural history. Linguistic and musical analysis of various genres, including the Lied, folk song, the choral symphony, opera, cabaret, and modern popular music.

Note: Reading and listening in German and English; discussion in German. An ability to read musical notation is not required.

Cross-listed Courses

History 1323. German Social Thought, Nietzsche to Habermas - (New Course)

***History and Literature 90w. Europe and Africa: Colonial and Postcolonial Encounters**

***History and Literature 90y. London - Paris - Berlin - St. Petersburg: Capital Cities in Europe's Long Nineteenth Century**

Primarily for Graduates

German 210. Baroque

Catalog Number: 8078

Peter J. Burgard

Half course (fall term). Th., 2-4. EXAM GROUP: 16, 17

Examines the literature of the German Baroque and the art of the European Baroque. Focuses on questions of systems, identity, and excess in poetry, drama, narrative, architecture, painting, and sculpture.

Note: Readings in German, discussions in English.



German 226r. Theories of Literature: Proseminar

Catalog Number: 1364

Oliver Simons

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

Hermeneutics, structuralism, discourse analysis, deconstruction, and gender theory are among the approaches to literature examined for their points of contact and divergence. Attention is also paid to the problem of "applying" theories to literary analysis.

Note: Readings in German and English, discussions in German.

[German 227. Allegories of Modernity: from Benjamin to Agamben]

Catalog Number: 31337

Oliver Simons

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

This course will study how literary and theoretical texts reflect upon the period around 1900. What is modern? How is modernity defined, constructed and invented in writings by Walter Benjamin, Hugo von Hofmannsthal, Sigmund Freud, Theodor W. Adorno, Jean-Francois Lyotard, and Giorgio Agamben?

Note: Expected to be given in 2012–13. Readings and discussions in English.

German 245. Repression and Expression: Sexuality, Gender, and Language in Fin-de-Siècle Austria and Germany (Graduate Seminar in General Education) - (New Course)

Catalog Number: 30116

Peter J. Burgard

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

Examines sexuality, gender, and language in Nietzsche, Freud, Wedekind, Hofmannsthal, Schnitzler, Mann, Musil, Kafka, Klimt, Schiele, Kokoschka, Kirchner, Heckel, Schmidt-Rottluff, Marc, Jawlensky, Kandinsky. This seminar will design and develop a General Education course on these themes for undergraduates.

Note: Expected to be omitted in 2012-13. Readings and discussions in English.

German 276. Colonial Theory and German Colonial Literature

Catalog Number: 75105

Judith Ryan

Half course (spring term). Th., 2-4. EXAM GROUP: 16, 17

Focuses on German fiction, autobiography, travel writings, essays, and films from the mid-nineteenth century to the present. German colonial fantasies, realities, and their aftermath will be examined in the light of recent postcolonial theory.

[German 290. Experience and Remembrance in W.G. Sebald: Seminar]

Catalog Number: 74744

Judith Ryan

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

Close study of Sebald's narrative and poetic works, as well as a selection of his scholarly essays, against the backdrop of recent literary theory.

Note: Expected to be given in 2012–13. Readings in German, discussions in English.



Graduate Courses of Reading and Research

***German 300. Special Reading Programs and Research Problems for Advanced Students**

Catalog Number: 3646

Peter J. Burgard 2217, Peter Nisbet 1738, Eric Rentschler 2325, Judith Ryan 1135 (on leave spring term), Oliver Simons 5274, and Maria Tatar 3645

***German 301. Foreign Language Teaching Workshop**

Catalog Number: 6129

Members of the Department

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

An introduction to the teaching of German. Examines the history of German pedagogy, current methodological trends, research, textbooks, and technology. Emphasis on the practical aspects of teaching German from beginning to advanced levels.

[*German 302. Introduction to Methods of Teaching Courses on Literature and Culture]

Catalog Number: 4557

Maria Tatar 3645 (on leave 2010-11)

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

An introduction to teaching courses with an interdisciplinary approach to the subject matter.

Note: Expected to be given in 2011–12. By permission of the instructor.

Germanic Philology

Primarily for Graduates

Cross-listed Courses

[Linguistics 247. Topics in Germanic Linguistics]

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 Jasanoff 1661 (on leave fall term), and Stephen A. Mitchell 7056

Germanic Studies

Primarily for Graduates

[Germanic Studies 268. Ethnopoetics and Authenticity in Northern Europe - \(New Course\)](#)

Catalog Number: 46014

Stephen A. Mitchell

Half course (spring term). W., 2–4. EXAM GROUP: 7, 8

Examines tradition as text, performance, and sociocultural event in Nordic and other Germanic



traditions, including: the search for authenticity; the recontextualization of performance practices; the Romantics' re-discovery and appropriation of tradition; and nationalist impulses connected with folk culture. Readings include works by Herder, the Grimms, Andersen, and Ibsen, and critical theories by Rothenberg, Tedlock, Lord, Nagy, Honko, Hymes, Foley, and Bauman.

Scandinavian Languages

Primarily for Undergraduates

Swedish Aa. Beginning Swedish Language and Literature

Catalog Number: 7438

Ursula Lindqvist

Half course (fall term). M. through Th., at 9. EXAM GROUP: 2, 11

A basic course focusing on listening, speaking, reading, and writing skills. During fall term, pronunciation and listening comprehension will be emphasized, as well as regular writing assignments. Literary, film, music and other cultural texts will be introduced relatively early on. By semester's end, students will have achieved a basic literacy in everyday Swedish.

Note: Not open to auditors.

Swedish Ab. Beginning Swedish Language and Literature

Catalog Number: 69695

Annette Johansson-los and Ursula Lindqvist

Half course (spring term). M. through Th., at 9. EXAM GROUP: 2, 11

Continuation of the basic course focusing on a basic mastery of listening, speaking, reading, and writing skills. During spring term, the emphasis is on more advanced conversation and an exploration of Sweden's culture and civilization through selected texts and video. By semester's end, students will be able to carry on conversations in everyday Swedish, read news articles, and write letters and produce substantial creative work.

Note: Not open to auditors.

Swedish Ba. Intermediate Swedish: Childhood in Swedish Literature and Culture

Catalog Number: 3104

Ursula Lindqvist

Half course (fall term). M., W., at 1, and an additional hour to be arranged. EXAM GROUP: 6

Sweden and Swedish Finland have produced some of the most translated and beloved works of children's fiction in the world. In this intermediate Swedish language course, we will review the essentials of Swedish grammar and vocabulary as we explore some of these classic works of children's fiction, film, and comic books and the aspects of Swedish culture they illuminate. The final project for this class involves producing your own work of children's fiction or film.

Note: Conducted in Swedish. Not open to auditors.

Prerequisite: Swedish Ab or equivalent.

Swedish Bbr. Special Topics in Swedish Literature and Culture: Crime in Swedish Fiction and Film

Catalog Number: 3405



Annette Johansson-Ios and Ursula Lindqvist

Half course (spring term). M., W., at 1, and an additional hour to be arranged. EXAM GROUP: 6

Spring 2011 special topic: Crime. Sweden's culture market has seen an explosion in crime fiction, film, and television shows since the 1940s emergence of the noir genre, and Stieg Larsson's and Henning Mankell's detective novels have become international bestsellers and popular films. In this course, we will explore the discourses these crime texts illuminate and the cultural phenomena they reveal, from changes in the welfare state to the impact of immigration on national identity.

Note: Conducted in Swedish. Not open to auditors. May be repeated for credit.

Prerequisite: Swedish Ba or equivalent.

Scandinavian 90r. Scandinavian Language Tutorial - (New Course)

Catalog Number: 11972

Ursula Lindqvist and Stephen A. Mitchell (spring term)

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

Individualized study of a Scandinavian language at the elementary, intermediate and advanced levels. Contact hours with language coach. Emphasis on literacy. Any language not listed as a course is taught under this number.

Note: For instruction in languages that are not listed (for example, modern Icelandic or Faroese), please consult Dr. Ursula Lindqvist. Not open to auditors.

Scandinavian 90r.a. Danish - (New Course)

Catalog Number: 91003

Ursula Lindqvist

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

Individualized study of Danish at the elementary, intermediate and advanced levels. Contact hours with language coach. Emphasis on literacy.

Note: This course is offered only when there is demonstrated curricular and academic need on the part of the student. Please consult Dr. Ursula Lindqvist for more information. Not open to auditors.

Scandinavian 90r.b. Finnish - (New Course)

Catalog Number: 84802

Ursula Lindqvist and Stephen A. Mitchell (spring term)

Half course (fall term; repeated spring term). Fall: Tu., Th., at 9; Spring: Tu., Th., at 9; F., 2-5.

EXAM GROUP: Spring: 11

Individualized study of Finnish at the elementary, intermediate, and advanced levels. Contact hours with a language coach. Emphasis on literacy.

Note: This course is offered only when there is demonstrated curricular and academic need on the part of the student. Please consult Dr. Ursula Lindqvist for more information. Not open to auditors.

Scandinavian 90r.c. Norwegian - (New Course)

Catalog Number: 63494

Ursula Lindqvist and Stephen A. Mitchell (spring term)



Half course (fall term; repeated spring term). Fall: M., W., F., at 11; Spring: M., W., F., at 11.
Individualized study of Norwegian at the elementary, intermediate and advanced levels. Contact hours with language coach. Emphasis on literacy.

Note: This course is offered only when there is demonstrated curricular and academic need on the part of the student. Please consult Dr. Ursula Lindqvist for more information. Not open to auditors.

Scandinavian Literature and Culture

Primarily for Undergraduates

***Scandinavian 91r. Supervised Reading and Research**

Catalog Number: 7308

Ursula Lindqvist and Stephen A. Mitchell (spring term)

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

Advanced reading in topics not covered in regular courses.

Note: Permission of the Director of Undergraduate Studies required.

***Scandinavian 97. Tutorial — Sophomore Year**

Catalog Number: 1592

Ursula Lindqvist

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

Group or individual tutorial designed to supplement course work and acquaint students with appropriate analytical methods.

Note: Open to concentrators in the Scandinavian option. Permission of the Director of Undergraduate Studies required.

***Scandinavian 98. Tutorial — Junior Year**

Catalog Number: 4255

Ursula Lindqvist

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

Group or individual tutorial designed to supplement course work and to develop analytical techniques.

Note: Permission of the Director of Undergraduate Studies required.

***Scandinavian 99. Tutorial — Senior Year**

Catalog Number: 5542

Ursula Lindqvist

Full course. Hours to be arranged.

Open to concentrators writing an honors thesis under faculty supervision. Students are expected to enroll for the entire year.

Note: Permission of the Director of Undergraduate Studies required.

For Undergraduates and Graduates



Scandinavian 115. Nordic Cinema

Catalog Number: 9052

Judith Ryan and Ursula Lindqvist

Half course (spring term). Tu., Th., at 2. EXAM GROUP: 16

The Nordic region has made formidable contributions to world cinema, from the Swedish invasion of Hollywood in the silent film era to Denmark's Dogma 95 movement. This course instructs students in analyzing films in their Nordic cultural and historical contexts and provides an overview of this regional cinema as art and industry within European film history. Topics will include the silent Golden Age, auteurs Dreyer and Bergman, and transnational and diasporic cinema.

Note: All readings in English and all films subtitled in English; students with a knowledge of a Nordic language read those texts in the original. This course, when taken for a letter grade, meets the Core area requirement for Foreign Cultures or for Literature and Arts B, but not both.

[Scandinavian 142. Nordic Theater and Drama] - (New Course)

Catalog Number: 68982

Ursula Lindqvist

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

Two Nordic playwrights, Henrik Ibsen and August Strindberg, are widely considered pioneers of modern drama, and filmmakers Ingmar Bergman and Liv Ullmann have also been celebrated for their work in theater. This course examines the global legacy of these pioneers and the Nordic region's subsequent innovations in theater and drama. Topics: national romanticism, realism, naturalism, symbolism, expressionism, surrealism, and feminist and diasporic theater. We will study each play as performance as well as text.

Note: Expected to be given in 2011–12. All readings and discussions in English.

[Scandinavian 150. The Vikings and the Nordic Heroic Tradition]

Catalog Number: 3974

Stephen A. Mitchell

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

Examines the heroic legacy resulting from the historical events in northern Europe A.D. 800 to A.D. 1100, concentrating on medieval Icelandic poetry and sagas. The course focuses on how these texts present their heroes as warriors, kings, poets, outlaws and adventurers, and reviews how the viking image is received and shaped in later periods. Pre-Christian mythology, the viking raids and the Norse experience in "Vinland" carefully considered.

Note: Expected to be given in 2011–12. All readings and discussions in English. This course, when taken for a letter grade, meets the General Education requirement for Aesthetic and Interpretive Understanding or the Core requirement for Literature and Arts A. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past.

[Scandinavian 160a. Old Norse Language, Literature, and Culture: The Viking Legacy]

Catalog Number: 1139 Enrollment: Limited to 12.

Stephen A. Mitchell

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

Introduction to the language and literary culture of medieval Scandinavia, emphasizing works



treating the Viking Age and their valorization of an heroic ideal. In addition to basic language skills, students acquire familiarity with key critical tools of the field. Readings include scaldic poetry, selections from *Egils saga* and the Vinland sagas, and various runic monuments.

Note: Expected to be given in 2012–13. May be counted toward the Folklore and Mythology 90 requirement.

[Scandinavian 160br. Old Norse Language, Literature, and Culture: Mythology]

Catalog Number: 7588 Enrollment: Limited to 12.

Stephen A. Mitchell

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

Builds on Scandinavian 160a, continuing the language study and cultural survey of the first term, but now considers mythological texts relating to Viking religious life, mainly selections from the prose and poetic *Eddas*. Special attention is paid to scholarly tools and debates concerned with the interpretation of these cultural monuments.

Note: Expected to be given in 2012–13. May be counted toward the Folklore and Mythology 90 requirement.

Prerequisite: Scandinavian 160a or equivalent.

***Scandinavian 191r. Supervised Reading and Research**

Catalog Number: 6175

Stephen A. Mitchell

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

Advanced readings in topics not covered in regular courses.

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.

Global Health and Health Policy

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Committee on Global Health and Health Policy



David M. Cutler, Otto Eckstein Professor of Applied Economics (*Co-Chair*)
 Paul Farmer, Maude and Lillian Presley Professor of Global Health and Social Medicine (*Medical School*) (*Co-Chair*)
 Katherine Baicker, Professor of Health Economics (*Public Health*)
 Lisa Faye Berkman, Thomas D. Cabot Professor of Public Policy and of Epidemiology (*Public Health*)
 David E. Bloom, Clarence James Gamble Professor of Economics and Demography (*Public Health*)
 Allan M. Brandt, Amalie Moses Kass Professor of the History of Medicine in the Faculty of Medicine, and Professor of the History of Science in the Faculty of Arts and Sciences, Dean of the Graduate School of Arts and Sciences
 Daniel P. Carpenter, Allie S. Freed Professor of Government
 Colleen M. Cavanaugh, Edward C. Jeffrey Professor of Biology
 Amitabh Chandra, Professor of Public Policy (*Kennedy School*)
 Michael Chernew, Professor of Health Care Policy (*Medical School*)
 Nicholas A. Christakis, Professor of Sociology (*Medical School*)
 Norman Daniels, Mary B. Saltonstall Professor of Population Ethics and Professor of Ethics and Population Health (*Public Health*)
 David A. Edwards, Gordon McKay Professor of the Practice of Biomedical Engineering
 Myron Essex, Mary Woodard Lasker Professor of Health Sciences (*Public Health*)
 Erica M. Field, John L. Loeb Associate Professor of the Social Sciences
 Duana Fullwiley, Assistant Professor of Anthropology and of African and African American Studies
 Susanne J. Goldie, Roger Irving Lee Professor of Public Health (*Public Health*)
 Mary-Jo Del Vecchio Good, Professor of Social Medicine (*Medical School*)
 Jeremy Alan Greene, Assistant Professor of the History of Science (*on leave 2010-11*)
 David P. Harrington, Professor of Biostatistics (*Public Health*)
 Daniel L. Hartl, Higgins Professor of Biology
 Haiden A. Huskamp, Associate Professor of Health Care Policy (*Medical School*)
 Nancy M. Kane, Professor of Management (*Public Health*)
 Arthur Kleinman, Esther and Sidney Rabb Professor of Anthropology in the Faculty of Arts and Sciences and Professor of Medical Anthropology in the Faculty of Medicine
 Michael R. Kremer, Gates Professor of Developing Societies (*on leave fall term*)
 Jennifer Leaning, Francois-Xavier Bagnoud Professor of the Practice of Health and Human Rights (*Public Health*)
 Robert A. Lue, Professor of the Practice of Molecular and Cellular Biology
 Erez Manela, Professor of History
 Thomas G. McGuire, Professor of Health Economics in the Department of Health Care Policy (*Medical School*)
 John M. Mugane, Professor of the Practice of African Languages and Cultures and Director of the African Language Program
 Joseph P. Newhouse, John D. Macarthur Professor of Health Policy and Management (*Kennedy School, Medical School, Public Health*)
 Charles Lindsay Nunn, Associate Professor of Human Evolutionary Biology
 Joshua A. Salomon, Associate Professor of International Health (*Public Health*)
 Doris Sommer, Ira Jewell Williams, Jr. Professor of Romance Languages and Literatures and of



African and African American Studies

David Williams, Florence Sprague Norman and Laura Smart Norman Professor of Public Health in the School of Public Health and Professor of African and African American Studies in the Faculty of Arts and Sciences (*on leave spring term*)

The Standing Committee on Global Health and Health Policy promotes expanded and enhanced curricular, research, and advising opportunities to undergraduate students interested in the various aspects of health around the world. This committee coordinates course offerings related to global health and facilitates research opportunities for undergraduates. The committee also coordinates a Secondary Field in Global Health and Health Policy.

Global health and health policy present a fundamentally interdisciplinary set of challenges, including problems in the life sciences, along with economic, political, social, and cultural factors that influence health. Harvard has a deep investment and scholarly capacity in the many areas critical to these challenges. The Committee on Global Health and Health Policy, with its diverse representation from across the Faculty of Arts and Sciences and other Harvard Faculties, provides an entrée to Harvard undergraduates as they explore the significant problems shaping health policy around the world.

Primarily for Undergraduates

***Global Health and Health Policy 50 (formerly *Extra-Departmental Courses 187). The Quality of Health Care in America**

Catalog Number: 4832 Enrollment: Limited to 35.

Warner V. Slack (Medical School) and Howard H. Hiatt

Half course (spring term). Tu., Th., 4:30-6 and a weekly section to be arranged.

Offers information and experiences regarding most important issues and challenges in health care quality. Overview of the dimensions of quality of care, including outcomes, overuse, underuse, variation in practice patterns, errors and threats to patient safety, service flaws, and forms of waste. Each session focuses on one specific issue, exploring patterns of performance, data sources, costs, causes, and remedies. Explores desirable properties of health care systems that perform at high levels in many dimensions of quality.

Note: This course may not be taken for credit by students who have already taken either General Education 187 or Extra-Departmental Courses 187.

***Global Health and Health Policy 91r. Supervised Reading and Research - (New Course)**

Catalog Number: 37977

David M. Cutler 2954 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 of instruction.

Note: May not be taken Pass/Fail. To enroll in the course, a written proposal and signature of advisor and chair of GHHP Committee is required.

***Global Health and Health Policy 99 (formerly *Government 1597). Advanced Topics in Global Health and Health Policy**



Catalog Number: 2981 Enrollment: Limited.

David M. Cutler

Half course (spring term). W., 4–6. EXAM GROUP: 9

Explores current issues in national and global health care policy. Topics include: the elements of health care reform, cost containment, quality measurement and improvement, racial and ethnic disparities in care, politics of health care, comparative health systems, global health, and organizational influences on quality. The course also focuses on research methods in social science and critical evaluation of research. A research paper will be required.

Note: May not be taken pass/fail.

Prerequisite: A foundational course for the Secondary Field in Global Health and Health Policy.

Cross-listed Courses

For additional courses taught at other Harvard Schools, consult the website for the Secondary Field in Global Health and Health Policy.

General Education

[Culture and Belief 11. Medicine and the Body in East Asia and in Europe]

[Culture and Belief 34 (formerly Historical Study A-87). Madness and Medicine: Themes in the History of Psychiatry]

[Empirical and Mathematical Reasoning 15 \(formerly Quantitative Reasoning 50\). Medical Detectives](#)

[Empirical and Mathematical Reasoning 20 \(formerly Quantitative Reasoning 24\). The Business and Politics of Health](#)

[Ethical Reasoning 24. Bioethics](#)

[Science of Living Systems 11. Molecules of Life](#)

[Science of Living Systems 16. Human Evolution and the Human Body](#)

[Science of Living Systems 17 \(formerly Science B-23\). The Human Organism](#)

[Science of Living Systems 19. Nutrition and Global Health](#)

[Science of Living Systems 21. Evolutionary Medicine - \(New Course\)](#)

[Science of Living Systems 23. Outbreak: Evolution, Genomics and Infectious Disease] - (New Course)

[*Science of Living Systems 24. From Neurons to Nations: The Science of Early Childhood Development and the Foundations of a Successful Society - \(New Course\)](#)

[Societies of the World 24. Global Health Challenges: Complexities of Evidence-based Policy](#)

[Societies of the World 25 \(formerly Anthropology 1825\). Health, Culture and Community: Case Studies in Global Health](#)

[United States in the World 11. American Health Care Policy](#)

[United States in the World 13 (formerly Historical Study A-34). Medicine and Society in America]

[United States in the World 31 \(formerly Social Analysis 54\). American Society and Public Policy](#)



Freshman Seminars

- [*Freshman Seminar 21s. Germs](#)
- [*Freshman Seminar 21t. Interplay of Host Cells and Viruses: the Case of HIV - \(New Course\)](#)
- [*Freshman Seminar 23k. Insights from Narratives of Illness](#)
- [*Freshman Seminar 23l. Medicine, Law, and Ethics: An Introduction](#)
- [*Freshman Seminar 23m. Nutrition and Public Health](#)
- [*Freshman Seminar 24n. Child Health in America](#)
- [*Freshman Seminar 25g. The Impact of Infectious Diseases on History and Society](#)
- [*Freshman Seminar 25k. You Are What You Eat](#)
- [*Freshman Seminar 25t. AIDS in Africa](#)
- [*Freshman Seminar 25z. Stress and Disease \(Biobehavioral Aspects of Health and Disease\)](#)
- [*Freshman Seminar 26w. The Biology and Science of Cancer and Its Treatments: From Empiric to Scientific to Humanistic](#)
- [*Freshman Seminar 38j. Medicine and Literature](#)
- [*Freshman Seminar 45m. The Concept of Race in Science and Medicine in the United States](#)
- [*Freshman Seminar 45u. Suicide and Violence: a Public Health Perspective - \(New Course\)](#)

African and African American Studies

- [African and African American Studies 196. Field Research Methods in the Medical Social Sciences: Writing, Policy and Deliverables]
- [African and African American Studies 197. Poverty, Race, and Health]
- [African and African American Studies 199. Delimiting Health Disparities in the African Diaspora: A Laboratory for Social Engagement]

Applied Mathematics

- [Applied Mathematics 101. Statistical Inference for Scientists and Engineers](#)

Chemistry and Chemical Biology

- [Chemistry 101 \(formerly Chemistry 201\). Organic Synthesis Towards a Genomic Medicine](#)
- [*Chemistry 185 \(formerly *Chemistry 285\). Human Disease](#)

The Classics

- [Classical Studies 165. Ancient Medicine]

Comparative Literature

- [Literature 128. Literature and Medicine - \(New Course\)](#)

Economics



[Economics 1123. Introduction to Econometrics](#)

[Economics 1126. Quantitative Methods in Economics](#)

[*Economics 1386. Health, Education, and Development]

[Economics 1389. Economics of Global Health](#)

[Economics 1460. Economics of Health Care Policy]

Engineering Sciences

[Engineering Sciences 6. Environmental Science and Technology](#)

[*Engineering Sciences 20 \(formerly *Engineering Sciences 147\). How to Create Things and Have Them Matter](#)

[Engineering Sciences 53. Quantitative Physiology as a Basis for Bioengineering](#)

[Engineering Sciences 103. Spatial Analysis of Environmental and Social Systems](#)

[Engineering Sciences 130. Tissue Engineering](#)

[Engineering Sciences 145. Physiological Systems Analysis](#)

[Engineering Sciences 149. Neural Control of Movement](#)

[Engineering Sciences 165. Water Engineering](#)

[Engineering Sciences 166. Environmental Microbiology]

[Engineering Sciences 167. Environmental Assessment]

Environmental Science and Public Policy

[*Environmental Science and Public Policy 90f. Global Change and Human Health: Seminar](#)

[*Environmental Science and Public Policy 90j. Environmental Crises and Population Flight]

Government

[Government 50. Introduction to Political Science Research Methods](#)

[*Government 98np. Global Politics of Disease & Health](#)

[Government 1093. Ethics, Biotechnology, and the Future of Human Nature]

[Government 1521. Bureaucratic Politics: Government, Economic, Social and Military Organizations]

History

[*History 87a (formerly *History 1912). Health, Disease, and Ecology in African History]

[History 1702 \(formerly History 1923\). Violence, Substances and Mental Illness: African Perspectives: Conference Course](#)

[*History 1955. Humans and Germs in History: Conference Course - \(New Course\)](#)

History of Science

[History of Science 108. Bodies, Sexualities, and Medicine in the Medieval Middle East - \(New Course\)](#)



[History of Science 112. Health, Medicine and Healing in Medieval and Renaissance Europe](#)

[History of Science 113. Crusades, Plagues and Hospitals: Medicine and Society in the Islamic Middle Ages - \(New Course\)](#)

[*History of Science 140. Disease and Society](#)

[History of Science 141. The Social Life of Pharmaceuticals]

[*History of Science 145 (formerly *History of Science 90m). Medicine and Deviance: Conference Course]

[History of Science 148. History of Global Health]

[History of Science 173. The Abnormal Mind - \(New Course\)](#)

[*History of Science 253. Bioethics, Law, and the Life Sciences]

Human Evolutionary Biology

[Human Evolutionary Biology 1333. Primate Disease Ecology](#)

Life Sciences

[Life Sciences 60 (formerly MCB 60). Ethics, Biotechnology, and the Future of Human Nature]

[Life Sciences 110. A Microbial World]

[Life Sciences 120. Global Health Threats - \(New Course\)](#)

Molecular and Cellular Biology

[MCB 169. Molecular and Cellular Immunology](#)

[MCB 185. Human Disease](#)

[MCB 192. Principles of Drug Discovery and Development]

Neurobiology

[*Neurobiology 95hfg. More than Glue: Glial Cells in Health and Neurological Disease](#)

[*Neurobiology 95hfk (formerly *Biology 95hfk). Mechanisms of Neurological Disease]

[*Neurobiology 95l. Neuropharmacology: Principles and Future Prospects](#)

[Neurobiology 130 (formerly Psychology 1205). Drugs and the Brain: From Neurobiology to Ethics]

Organismic and Evolutionary Biology

[OEB 123. Biology of Symbiosis]

[OEB 221. Microbial Diversity]

[*OEB 290 \(formerly *Life Sciences 190r\). Microbial Sciences: Chemistry, Ecology and Evolution](#)

Psychology



[Psychology 1005. Health Psychology - \(New Course\)](#)

[Psychology 1201. Your Brain on Drugs: Psychopharmacology](#)

[Psychology 1900. Introduction to Statistics for the Behavioral Sciences](#)

Social Studies

[*Social Studies 98kg. The Political Economy of Health in the Developing World](#)

Sociology

[*Sociology 156. Quantitative Methods in Sociology](#)

[\[Sociology 160. Medicine, Health Policy and Bioethics in Comparative and Global Perspective: Conference Course\]](#)

[Sociology 165. Inequalities in Health Care](#)

[Sociology 190. Life and Death in the US: Medicine and Disease in Social Context](#)

Statistics

[Statistics 100. Introduction to Quantitative Methods for the Social Sciences and Humanities](#)

[Statistics 101. Introduction to Quantitative Methods for Psychology and the Behavioral Sciences](#)

[Statistics 104. Introduction to Quantitative Methods for Economics](#)

[Statistics 110. Introduction to Probability](#)

Stem Cell and Regenerative Biology

[SCRB 150 \(formerly MCB 150\). Human Genetics: Mining Our Genomes for an Understanding of Human Variation and Disease](#)

[*SCRB 167. Stem Cells and Regeneration in the Pathobiology and Treatment of Human Disease](#)

[SCRB 170. Heart Stem Cell Therapeutics: A Case Study for Regenerative Medicine - \(New Course\)](#)

Women, Gender, and Sexuality

[Studies of Women, Gender, and Sexuality 1125. Gender and Health](#)

[*Studies of Women, Gender, and Sexuality 1421. Medical Management of the Female Body - \(New Course\)](#)



Government

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Department of Government

Timothy J. Colton, Morris and Anna Feldberg Professor of Government and Russian Studies
(Chair)

James E. Alt, Frank G. Thomson Professor of Government

Stephen Daniel Ansolabehere, Professor of Government

Kenichi Ariga, Lecturer on Government

Celeste Arrington, Lecturer on Government

Muhammet Ali Bas, Assistant Professor of Government

Robert H. Bates, Eaton Professor of the Science of Government and Professor of African and African American Studies

Eric Beerbohm, Assistant Professor of Government and of Social Studies

Daniel P. Carpenter, Allie S. Freed Professor of Government

Jocelyne Cesari, Lecturer on Government

Chong-Wook Chung, Visiting Professor of Government

Carlos E. Díaz Rosillo, Lecturer on Government

Jorge I. Domínguez, Antonio Madero Professor for the Study of Mexico

Grzegorz Ekiert, Professor of Government

Ryan Enos, Assistant Professor of Government

Michael Frazer, Assistant Professor of Government and of Social Studies (*on leave spring term*)

Charles David Freilich, Lecturer on Government

Jeffrey Frieden, Stanfield Professor of International Peace

Shinju Fujihira, Lecturer on Government

Aaron Garrett, Visiting Associate Professor of Government (*Boston University*)

Claudine Gay, Professor of Government and of African and African American Studies (*Director of Graduate Studies*)

Justin Daniel Gest, College Fellow in the Department of Government

Adam Glynn, Associate Professor of Government

Frances Hagopian, Jorge Paulo Lemann Visiting Associate Professor (*University of Notre Dame*)

Peter A. Hall, Krupp Foundation Professor of European Studies (*on leave fall term*)

Michael J. Hiscox, Clarence Dillon Professor of International Affairs

Jennifer L. Hochschild, Henry LaBarre Jayne Professor of Government and Professor of African and African American Studies, Harvard College Professor (*on leave spring term*)

Stanley Hoffmann, Paul and Catherine Buttenwieser University Professor

Nahomi Ichino, Assistant Professor of Government



Maxine Isaacs, Lecturer on Government
 Torben Iversen, Harold Hitchings Burbank Professor of Political Economy
 Alastair Iain Johnston, Governor James Albert Noe and Linda Noe Laine Professor of China in
 World Affairs (*on leave 2010-11*)
 Gary King, Albert J. Weatherhead III University Professor
 Benjamin Eliot Lauderdale, College Fellow in the Department of Government
 Sanford V. Levinson, Visiting Professor of Government (*University of Texas-Austin*)
 Steven R. Levitsky, Professor of Government (*on leave 2010-11*)
 Ofrit Liviatan, Lecturer on Government
 Eric Benjamin Lomazoff, College Fellow in the Department of Government
 Roderick MacFarquhar, Leroy B. Williams Professor of History and Political Science (*on leave
 spring term*)
 Harvey C. Mansfield, William R. Kenan, Jr. Professor of Government
 Sebastian Lucas Mazzuca, Lecturer on Government
 Patrick J. Moynihan, Preceptor in Government, Lecturer on Sociology
 Eric M. Nelson, Professor of Government
 Pippa Norris, Lecturer on Government
 Ryan James Owens, Assistant Professor of Government (*on leave fall term*)
 Nathan Andrew Paxton, Lecturer on Government
 Gregg Andrew Peebles, Lecturer on Government
 Elizabeth J. Perry, Henry Rosovsky Professor of Government
 Paul E. Peterson, Henry Lee Shattuck Professor of Government
 Susan J. Pharr, Edwin O. Reischauer Professor of Japanese Politics (*on leave spring term*)
 Matthew B. Platt, Assistant Professor of Government
 Robert D. Putnam, Peter and Isabel Malkin Professor of Public Policy (*on leave 2010-11*)
 Patrick T. Riley, Lecturer on Government
 James Robinson, David Florence Professor of Government
 Michael E. Rosen, Professor of Government
 Stephen P. Rosen, Beton Michael Kaneb Professor of National Security and Military Affairs
 Nancy Lipton Rosenblum, Senator Joseph S Clark Professor of Ethics in Politics and
 Government (*on leave 2010-11*)
 Pedram Safari, Preceptor in Government
 Michael J. Sandel, Anne T. and Robert M. Bass Professor of Government
 Kenneth A. Shepsle, George D. Markham Professor of Government
 Beth A. Simmons, Clarence Dillon Professor of International Affairs
 Prerna Singh, Assistant Professor of Government
 Theda Skocpol, Victor S. Thomas Professor of Government and Sociology
 James M. Snyder, Professor of Government
 Arthur P. Spirling, Assistant Professor of Government
 Sumeeta Srinivasan, Preceptor in Government
 Dennis F. Thompson, Alfred North Whitehead Professor of Political Philosophy in the Faculty of
 Arts and Sciences and in the John F. Kennedy School of Government
 Dustin Tingley, Assistant Professor of Government
 Richard Tuck, Frank G. Thomson Professor of Government
 Cheryl Brown Welch, Senior Lecturer on Government (*Director of Undergraduate Studies*)
 Daniel F. Ziblatt, Paul Sack Associate Professor of Political Economy, Professor of Government



Other Faculty Offering Instruction in the Department of Government

Alberto Abadie, Professor of Public Policy at the John F. Kennedy School of Government
(*Kennedy School*)

Graham T. Allison, Jr., Douglas Dillon Professor of Government in the John F. Kennedy School
of Government (*Kennedy School*)

Matthew A. Baum, Marvin Kalb Professor of Global Communication (*Kennedy School*)

Nara Dillon, Lecturer on East Asian Languages and Civilizations

Lee Fleming, Albert J. Weatherhead III Professor of Business Administration (*Business School*)

Richard B. Freeman, Herbert S. Ascherman Professor of Economics

Guido W. Imbens, Professor of Economics (*on leave spring term*)

Joseph Stanley Kochanek, Lecturer on Social Studies

Michael Alroy Landesmann, Pierre Keller Visiting Professor (*Kennedy School*)

Roger B. Porter, IBM Professor of Business and Government in the John Fitzgerald Kennedy
School of Government (*Kennedy School*)

James M. Robins, Mitchell L. and Robin LaFoley Dong Professor of Epidemiology (*Public
Health*)

Donald B. Rubin, John L. Loeb Professor of Statistics

Thomas M. Scanlon, Jr., Alford Professor of Natural Religion, Moral Philosophy, and Civil
Polity

Tyler J. VanderWeele, Associate Professor of Epidemiology (*Public Health*)

Sidney Verba, Carl H. Pforzheimer University Professor, Emeritus

Stephen Martin Walt, Robert and Renee Belfer Professor of International Affairs at the J. F. K.
School of Government (*Kennedy School*)

Christopher Winship, Diker-Tishman Professor of Sociology

A full list of courses that count toward undergraduate concentration is available in the Office of
the Director of Undergraduate Studies.

Department of Government course listings are numerically ordered as follows:

10–50: Introductory and General Courses

90 (with one or more letter suffix): Junior Seminars

91–99: Supervised Reading and Research, and Tutorials

1000–1029 and 2000–2029: Political Methodology and Formal Theory

1030–1099 and 2030–2099: Political Thought and Its History

1100–1299 and 2100–2299: Comparative Government

1300–1599 and 2300–2599: American Government, Public Law, and Administration

1700–1999 and 2700–2999: International Relations



3000–3999: Graduate Courses of Reading and Research and Dissertation Workshops

Introductory and General Courses

Primarily for Undergraduates

Government 10. Foundations of Political Theory

Catalog Number: 8836

Eric Beerbohm

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

This course investigates the central problems of political theory that concern the justification of democracy. Is democratic rule the uniquely just form of collective decision-making? What political institutions best express the democratic values of equality, deliberation, and participation? What are the moral responsibilities of citizens - whose representatives exercise political power in their name? Is democracy a human right? Readings integrate contemporary work in political philosophy with canonical thinkers, including Plato, Aristotle, Rousseau, and J.S. Mill.

Note: This course, when taken for a letter grade, meets the General Education requirement for Ethical Reasoning or the Core area requirement for Moral Reasoning.

Government 20. Foundations of Comparative Politics

Catalog Number: 6166

Shinju Fujihira

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

Provides an introduction to key concepts and theoretical approaches in comparative politics. Major themes include the causes of democratization, economic development, ethnic conflict, and social revolutions; as well as the role of the state, political institutions, and civil society. Examines and critically evaluates different theoretical approaches to politics including modernization, Marxist, cultural, institutionalist, and leadership-centered approaches. Compares cases from Africa, Asia, Europe, Middle East and Latin America to provide students with grounding in the basic tools of comparative analysis.

Note: This course, when taken for a letter grade, meets the General Education requirement for Societies of the World or the Core area requirement for Social Analysis.

Government 30. American Government: A New Perspective

Catalog Number: 0263

Stephen Daniel Ansolabehere and Paul E. Peterson

Half course (fall term). M., W., at 11, and a weekly section to be arranged.

Provides an overview of contemporary American politics, showing how recent changes in elections and media coverage have helped shape key aspects of American government. From the courts, Congress, and the Presidency, to the workings of interest groups and political parties, and, also to the making of public policy, the pressure on political leaders to run permanent campaigns has altered governmental institutions and processes. The course explains how and why.

Note: This course, when taken for a letter grade, meets the General Education requirement for



United States in the World or the Core area requirement for Social Analysis. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past.

Government 40. International Conflict and Cooperation

Catalog Number: 72449

Stephen P. Rosen

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

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

Note: This course, when taken for a letter grade, meets the General Education requirement for Societies of the World or the Core area requirement for Historical Study A. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past.

Government 50. Introduction to Political Science Research Methods

Catalog Number: 6500

Arthur P. Spirling and Adam Glynn

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

This class will introduce students to techniques used for research in the study of politics. Students will learn to think systematically about research design and causality, how data and theory fit together, and how to measure the quantities we care about. Students will learn a 'toolbox' of methods---including statistical software---that enable them to execute their research plans. This class is highly recommended for those planning to write a senior thesis.

Note: This course, when taken for a letter grade, meets the General Education requirement for Empirical and Mathematical Reasoning or the Core requirement for Quantitative Reasoning.

Government 90: Undergraduate Departmental Seminars

These seminars offer teaching faculty in Government the opportunity to meet with highly-motivated students on a topic of current interest in political science. Gov 90s are open to both concentrators and non-concentrators and enrollment is at the discretion of the instructor. Please note that Gov 90s do not fulfill the research seminar requirement for honors in Government.

***Government 90a (formerly *Government 1172). Contemporary British Politics: Seminar**

Catalog Number: 6263 Enrollment: Limited to 16.

James E. Alt

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

Focuses on changes in economy, society, and politics in the transition from empire to small country. Topics include the evolving party system, electoral behavior, and a range of policy



questions involving economic management, the welfare state, the European Community, race relations, and Northern Ireland.

***Government 90bl. Democratic Theory and Practice - (New Course)**

Catalog Number: 50047 Enrollment: Limited to 16.

Benjamin Eliot Lauderdale

Half course (fall term). W., 4–6. EXAM GROUP: 9

This seminar explores a related set of questions about democratic government: what are our ideals, what is possible, and what do we have now? The first section of the course considers democratic and republican conceptions of what it means for "the people" to collectively govern. The second section of the course will consider fundamental constraints imposed by the mechanics of collective decision-making. The third section of the course turns to the reality of democratic self-government: how much control do citizens have in practice?

***Government 90da. Democracy, Alienation, and Muslims in the West - (New Course)**

Catalog Number: 71687 Enrollment: Limited to 16.

Justin Daniel Gest

Half course (fall term). W., 1–3.

This seminar develops an in-depth understanding of modern democratic citizenship and political identity, examining Western Muslim communities as an evocative case study. We first consider the shifting foundations of democratic participation and political alienation in a globalizing world. We then illustrate new developments by exploring the experiences of Muslim communities' in Western democratic polities. Finally, these concepts and observations are applied to understand three contemporary socio-political phenomena - global Islam, transnational Muslim politics, and terrorist networks.

***Government 90ey. The Rule of Law - (New Course)**

Catalog Number: 71814 Enrollment: Limited to 12.

Cheryl Brown Welch and members of the Department

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

This course will study the "Rule of Law" as a political ideal. Unlike democracy or human rights, the Rule of Law is championed even by the most repressive and illiberal regimes. Why is the Rule of Law so widely lauded? Is the Rule of Law valuable for its own sake, or merely for the sake of other values that it safeguards? The course will tackle these questions from both a theoretical and a comparative perspective.

***Government 90go. Religion & Politics: American Exceptionalism, European Secularism? - (New Course)**

Catalog Number: 19501 Enrollment: Limited to 12.

Cheryl Brown Welch and members of the Department

Half course (fall term). W., 2–4. EXAM GROUP: 7, 8

Contrary to what proponents of the secularization thesis predicted, religion has not lost its political salience in the developed world. Not only do "old" cleavages still matter, but new political fault lines continue to be drawn along dimensions of religious belief and identity. In this course we will examine the broad theoretical contours of religion's role in politics and analyze how religion specifically influences contemporary political discourses in the US and Europe.



***Government 90hm. The Constitutional Politics of The Federalist - (New Course)**

Catalog Number: 21874 Enrollment: Limited to 16.

Harvey C. Mansfield

Half course (fall term). W., 4–6. EXAM GROUP: 9

A study of The Federalist, with the Anti-Federalists, attendant documents, Locke, Montesquieu and Tocqueville, to consider the political science and the statesmanship of the Constitution.

***Government 90hu. Human Rights Scholars Seminar - (New Course)**

Catalog Number: 68777 Enrollment: Limited to 12.

Cheryl Brown Welch and members of the Department

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

This seminar is open to juniors in any concentration interested in human rights research. During the first half of the semester, we will review key theoretical concepts and discuss various disciplinary approaches to and methodologies for conducting human rights scholarship. During the second half, students will develop and workshop a research prospectus on a human rights topic in which they are interested. Preference will be given to students intending on writing a senior thesis.

Note: Preference given to juniors considering writing a senior thesis on human rights related topic (from all concentrations) or engaged in a serious research project on a human rights topic

***Government 90ja. The Politics of Regulation and Consumer Protection in America, 1900-Present - (New Course)**

Catalog Number: 44305 Enrollment: Limited to 12.

Cheryl Brown Welch and members of the Department

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

Why has consumer protection come into favor, and fallen out of favor in US politics at particular times over the twentieth century? How does consumer protection politics in the area of tangible goods (food, drugs, cosmetics, medical devices, vaccines, cars, tires, toys), differ from consumer protection politics around the environment (land, air, water), and around intangible, complicated services (health insurance, loans, credit)? How do features of the American political system help us answer these questions?

***Government 90ko. The Korean Peninsula and international Politics of East Asia - (New Course)**

Catalog Number: 12919 Enrollment: Limited to 16.

Chong-Wook Chung

Half course (spring term). Th., 2–4.

The course will examine contemporary international politics of Northeast Asia surrounding the Korean peninsula. Issues for special attention include the political and economic developments in the region, the external relations of the two Koreas with the major powers, and the emerging shape of the regional order. Two policy agenda will be the subject of intense scrutiny: the rise of China and North Korea's search for nuclear capability.

***Government 90mx. Mexico: Problems and Prospects for Development and Democracy - (New Course)**

Catalog Number: 92077 Enrollment: Limited to 20.



Jose Luis Mendez Martinez

Half course (fall term). Th., 2–4.

This course would assess recent problems, policies and decisions in Mexico as a way to discuss the concepts of state capacity, leadership and democratic governance. The first two sections will discuss such concepts, some general Latin American patterns and recent Mexican history. A third section will discuss the administrations of Zedillo and Fox. A fourth one will deal with the current administration of Calderon, review the original theoretical discussion and discuss some possible national scenarios.

***Government 90q (formerly Government 1795). US-Latin American Relations: Seminar**

Catalog Number: 5153 Enrollment: Limited to 16.

Jorge I. Domínguez

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

A study of political and economic relations between the United States and Latin American countries, and of the international relations of Latin America since 1960. Attention also given to foreign policy decision making in the US and Latin America, and to alternative approaches to the study of international relations and foreign policy.

***Government 90to. Nature, Virtue, and Happiness in Ancient Thought - (New Course)**

Catalog Number: 59412 Enrollment: Limited to 12.

Cheryl Brown Welch and members of the Department

Half course (spring term). W., 2–4. EXAM GROUP: 7, 8

The key concepts of ancient ethics include ‘nature,’ ‘virtue,’ and ‘happiness.’ But what are the different ways in which Plato, Aristotle, and the Stoics put these concepts into relation? And how do they rely on these concepts in evaluating political arrangements? This course explores the ethical foundations of ancient political thought by situating our thinkers in debates of philosophical scholarship and also by examining contemporary thinking inspired by reflection on ancient ethics.

Tutorials

***Government 91r. Supervised Reading and Research**

Catalog Number: 2444

Cheryl Brown Welch

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 credit. Offered at the discretion of the individual instructors. Written proposal and signature of Director of Undergraduate Studies required.

***Government 97. Tutorial — Sophomore Year**

Catalog Number: 3023

Eric M. Nelson and Prerna Singh

Half course (spring term). M., 2-3:30, and tutorial sections to be arranged. EXAM GROUP: 7, 8

This one-semester course is designed to provide all Government Department concentrators with



a unified and challenging intellectual experience in the study of politics. The course covers a selection of topics on the theme of "Democracy" and draws on materials ranging from classics in political theory to cutting edge research in the discipline today.

***Government 99r. Tutorial — Senior Year**

Catalog Number: 3652

Cheryl Brown Welch 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: One half course of Government 98.

Government 98. Junior Research Seminars

These seminars are designed for junior concentrators who have elected the honors program. Honors candidates are required to take at least one research seminar. The seminars have two primary aims: 1) to allow students to explore in depth an important topic in political science, and 2) to prepare students to write a successful senior honors thesis. Each Junior Research Seminar will guide students through the process of research, beginning with topic selection and culminating in the submission of a substantial research project at the end of the term. Enrollment is limited, and is determined by a lottery based on student preferences. The seminars are open to other Government concentrators and to nonconcentrators on a space available basis.

***Government 98al. Global Distributive Justice - (New Course)**

Catalog Number: 14091 Enrollment: Limited to 16.

Katie Jane Gallagher

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

This course examines how concerns about socio-economic justice apply beyond the limits of the domestic state. Do we have reason to care about equality at the international level? If so, should we care about the relative standing of individuals, or of nation-states? Who, if anyone, is responsible for addressing global inequalities? Topics covered include the moral relevance of borders, natural resource distribution, immigration policy, climate change, the international status of women, and global institutional design.

***Government 98ca. Human Rights and Democracy in East Asia - (New Course)**

Catalog Number: 18124 Enrollment: Limited to 16.

Celeste Arrington

Half course (spring term). Tu., 2–4.

This course explores the politics of human rights in Japan, Korea, and Taiwan. When and why do democracies improve their human rights records and redress past abuses? To address these questions, we analyze the ways in which transnational advocacy movements, lawyers, the media, victim organizations, and the courts help frame issues and shape policy outcomes. Our discussions cover a range of victim issues, including women, ethnic minorities, historical injustices, refugees, patients, the disabled, and prisoners.



***Government 98cw. Classics of Nineteenth-Century Liberalism - (New Course)**

Catalog Number: 71023 Enrollment: Limited to 16.

Cheryl Brown Welch

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

Discussions of the potential conflicts between democracy and justice, of the nature of rights, and of liberal "imperialism" often presuppose knowledge of nineteenth-century classic texts. This seminar looks closely at some of these foundational texts - in particular the works of Bentham, J. S. Mill, Constant, and Tocqueville. Students will be encouraged to develop research topics either in the history of political thought or on issues central to debates about the nature of liberal democracy.

***Government 98dn (formerly Government 90dn). Mapping Social and Environmental Space**

Catalog Number: 2017 Enrollment: Limited to 16.

Sumeeta Srinivasan

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

This seminar will use mapping as a methodological technique to examine social and environmental issues. Students will be expected to use mapping software to examine spatial data for a location and topic of their choice for their final paper. Weekly discussions will be conducted in class on various mapping related topics. References will range from books like "How to lie with Maps" to current journal articles examining the use of GIS in social science.

***Government 98dt. Theory and Research in Domestic Politics and International Relations - (New Course)**

Catalog Number: 32362 Enrollment: Limited to 16.

Dustin Tingley

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

The course will cover foundational material on the relationship between domestic politics and international relations. The course material will cover both security and economic relations between states, and emphasize the ways domestic political groups influence these relations. We will cover different methodological approaches to this relationship, including public opinion surveys, analysis of legislative voting, and game theoretic modeling.

[*Government 98ee. Elections and Electoral Fraud] - (New Course)

Catalog Number: 47469 Enrollment: Limited to 16.

Nahomi Ichino

Half course (fall term). W., 2–4. EXAM GROUP: 7, 8

Election fraud may determine the outcome of an election or destabilize a country in which one side feels that it has been cheated out of power. This seminar examines different ways in which elections may be compromised and their consequences; theories of where, why and how politicians engage in election fraud; and some reforms and measures used to combat the manipulation of elections results.

Note: Expected to be given in 2010–11.

Prerequisite: Government 50 is not required but recommended.



[*Government 98ef (formerly *Government 90ef). Black Politics in the Post Civil Rights Era]

Catalog Number: 3345 Enrollment: Limited to 16.

Claudine Gay

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

Course examines shift among African Americans from protest to politics. Emphasis is on development and use of political resources as the means to achieve policy objectives in the post-Civil Rights Era. Beginning with 1965 Voting Rights Act, course will explore the issues, opportunities, and challenges that have defined African American political life in the last forty years, as well as the attitudes and debates that have shaped efforts to increase African American influence over the political process.

Note: Expected to be given in 2011–12.

[*Government 98ej. Ethnic Politics]

Catalog Number: 28505 Enrollment: Limited to 16.

Prerna Singh

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

Today it is easy to observe that "ethnicity matters", but to understand contemporary ethnic politics, it is important to situate it in a theoretical, historical and comparative perspective. This junior seminar will compare the ways in which ethnic identities have become salient in politics across the world by focusing on three main sets of questions: (1) What is ethnicity? (2) What are the origins of ethnic identity? (3) What are the consequences of ethnic identities?

Note: Expected to be given in 2011–12.

***Government 98ek. Globalization and Private Governance**

Catalog Number: 13525 Enrollment: Limited to 16.

Michael J. Hiscox

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

This research seminar examines the impact of globalization on labor and environmental standards in developing nations. Topics include: the rules of the World Trade Organization and various preferential trade agreements, including NAFTA, and how these affect regulatory standards set by governments; the effects of corporate social responsibility (CSR) measures, including corporate codes of conduct; the effectiveness of activist campaigns, and; the impact of voluntary certification and labeling schemes such as Fair Trade.

***Government 98el. Political Science and the U.S. Constitution - (New Course)**

Catalog Number: 86462 Enrollment: Limited to 16.

Eric Benjamin Lomazoff

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

This seminar is designed for juniors who are considering a thesis related to the U.S. Constitution. No prior background in constitutional law is required. The course broadly examines three ways in which political scientists approach the Constitution: (1) the study of judicial behavior, (2) studies of institutional development that engage constitutional law, and (3) the normative enterprise of regime maintenance via constitutional interpretation.



***Government 98fg. Presidents, Governors, and Mayors: Chief Executive Power in Comparative Perspective**

Catalog Number: 8598 Enrollment: Limited to 16.

Carlos E. Díaz Rosillo

Half course (fall term). W., 7–9 p.m. EXAM GROUP: 9

Analyzes the foundation, development, and exercise of chief executive power at the national, state, and local levels of government in the United States. Examines the applicability of different political science theories of presidential power to the broader exercise of chief executive power. Explores the sources and limits of executive authority, the roles and responsibilities of political chief executives at different levels of government, and the way in which institutions affect the exercise of chief executive power.

***Government 98fh. Politics at the Grassroots: Rights, Resources, and Democratic Equality in Brazil - (New Course)**

Catalog Number: 35399 Enrollment: Limited to 16.

Frances Hagopian (University of Notre Dame)

Half course (spring term). W., 2–4. EXAM GROUP: 7, 8

Introduces students to researching politics and society in Latin America's largest and most unequal country through an examination of an array of grassroots movements and initiatives organized to redress inequality, including women's, landless, environmental, and religious movements; racial quotas, and participatory budgeting experiments. Seminar focuses on citizenship rights under neoliberalism and how social movements intersect with formal political institutions, political parties, and unions and other organizations to reorder the national political and policy agendas.

[*Government 98gl. Inhuman Wrongs: Crimes Against Humanity in Theory, Politics, and Law]

Catalog Number: 5106 Enrollment: Limited to 16.

Cheryl Brown Welch

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

After considering some analytical perspectives on extraordinary cruelty in modern political thought-on abuses whose wrongness has been called "morally overdetermined"-we turn to nineteenth-century cases of scandals against humanity: slavery, extermination, barbarous warfare. We then trace the legalization of the metaphor of a crime against humanity in the twentieth century and consider contemporary debates about how to prevent, punish, or repair inhuman wrongs.

Note: Expected to be given in 2011–12.

***Government 98hk. The Early Development of American Political Institutions and Organizations**

Catalog Number: 51268 Enrollment: Limited to 16.

Daniel P. Carpenter

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

Survey of developments in the party system, social movements, Congress, the presidency and the bureaucracy from the colonial period through the Civil War. Rise of the two-party system, the mass party and changes in voting rights; congressional committees and their power; building of



the Constitution and the federal judiciary; abolitionism and new social movements, the emergence of early bureaucratic institutions, and the presidency -- studied using three theoretical approaches (rational choice, historical institutionalism, and critical theory).

***Government 98jk. International Organizations in the Twentieth Century and Beyond - (New Course)**

Catalog Number: 20292 Enrollment: Limited to 16.

Joseph Stanley Kochanek

Half course (fall term). M., 2–4. EXAM GROUP: 7, 8

The rise of international organizations in the twentieth century has given rise to vigorous debate over their purposes and their actions. This course will acquaint students with the formal structure of the League of Nations, the United Nations, the European Union, and NATO, as well as examining the activities of these organizations. In addition, as a research seminar, this course will help prepare students to write a senior thesis in the Department of Government.

***Government 98jm (formerly *Government 90jm). Comparative Constitutional Law and Religion**

Catalog Number: 5104 Enrollment: Limited to 16.

Ofrit Liviatan

Half course (spring term). W., 2–4. EXAM GROUP: 7, 8

Introduction to key constitutional concepts using a cross-national examination of religious freedom issues. Topics include: processes of constitution-making, constitutional accommodation of diversity and the relationship between societies and their constitutions. Drawing upon legal cases from the US, Turkey, India, Israel, Spain, Canada, and England, the seminar will also familiarize participants with contemporary debates involving religion: the wearing of Islamic headscarf, religion and education, the funding of religious institutions, etc.

***Government 98mb. Rationalist Sources of International Conflict and War - (New Course)**

Catalog Number: 98991 Enrollment: Limited to 16.

Muhammet Ali Bas

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

How do we explain war and peace among states? Why do states resort to violent means and fight costly wars in international relations? In answering these fundamental questions, this seminar will examine theories that focus on strategic interaction of rational actors in international politics.

***Government 98mg. The Politics of Migration - (New Course)**

Catalog Number: 20165 Enrollment: Limited to 16.

Justin Daniel Gest

Half course (spring term). W., 2–4.

This seminar examines the challenges posed by global migration and the political responses of local communities. We first consider the history of migration, and theoretical understandings that attempt to explain the dynamics of migration, border control and integration. We next engage in a variety of policy debates about migrants and their inclusion, labor, rights, families, and legal status. We then apply this knowledge to four contemporary case studies which showcase divergent histories and approaches to immigration.



***Government 98mi. Interpreting Adam Smith - (New Course)**

Catalog Number: 77683 Enrollment: Limited to 16.

Michael Frazer

Half course (fall term). W., 2–4. EXAM GROUP: 7, 8

This course uses the moral, political, and economic writings of Adam Smith as a case study for learning how to interpret canonical texts. We will closely read Smith's own work while also examining the many conflicting ways Smith's ideas have been read and applied. Our goal will not only be to understand Smith better, but also to explore the various ways to conduct original research on any such important author.

***Government 98nk (formerly *Government 90hf). Voters, Parties, and Elections in Comparative Perspective**

Catalog Number: 6598 Enrollment: Limited to 16.

Arthur P. Spirling

Half course (fall term). M., 2–4. EXAM GROUP: 7, 8

Why do people vote the way they do? What role do parties play in democracies? Which electoral system is 'best'--- and why? This seminar seeks answers to these questions and is divided into three sections dealing with the fundamentals of modern democracy: voters, parties and elections. Readings will be both theoretical and empirical, and will cover voting behavior, party organization and strategy, electoral systems and electoral reform. Substantive focus will be on Western Europe.

***Government 98nm (formerly *Government 90nm). Race and Representation**

Catalog Number: 1424 Enrollment: Limited to 16.

Matthew B. Platt

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

This course explores the fundamental question of whether black members of Congress provide the highest potential quality of representation for their black constituents. Beginning with Reconstruction and continuing throughout the present Congress, we chart how the nature of black representation has changed in accordance with broader changes among black Americans themselves.

***Government 98np. Global Politics of Disease & Health**

Catalog Number: 66785 Enrollment: Limited to 16.

Nathan Andrew Paxton

Half course (fall term). W., 2–4. EXAM GROUP: 7, 8

Course will consider the international politics and political issues associated with the recent prominence of epidemics like AIDS, SARS and H1N1 influenza. Focus on global and international response institutions and their relationships with affected countries. Some consideration will also be given to comparing individual country responses.

***Government 98oa (formerly Government 90oa). Inequality and American Democracy**

Catalog Number: 2053 Enrollment: Limited to 16.

Theda Skocpol

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

The "rights revolutions" of the 1960s and 1970s removed barriers to full citizenship for African



Americans, women, and other formerly marginalized groups. But inequalities of wealth and income have grown since the 1970s. How do changing social and economic inequalities influence American democracy? This seminar explores empirical research and normative debates about political participation, about government responsiveness to citizen preferences, and about the impact of public policies on social opportunity and citizen participation.

***Government 98pb. The Development of Political Beliefs - (New Course)**

Catalog Number: 65154 Enrollment: Limited to 16.

Benjamin Eliot Lauderdale

Half course (spring term). W., 4–6. EXAM GROUP: 9

This seminar explores how American citizens form and maintain their beliefs about politics. Collectively, citizens' actions are hugely consequential, yet no single vote, no single signature, no single protester is ever likely to be pivotal. Why does anyone ever invest time learning about politics and what are the consequences of this incentive to shirk the duties of citizenship? We examine how citizens become engaged as well as the many ways that their beliefs are shaped.

[*Government 98sg (formerly *Government 90sg). Global Justice]

Catalog Number: 9860 Enrollment: Limited to 16.

Eric Beerbohm

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

This course examines how principles of justice bear upon the practice of global politics. What do cosmopolitan values - the equal worth of all persons and the existence of moral obligations binding all - require of citizens and their political institutions? Topics include theories of cosmopolitanism, world poverty and global distributive justice, the justification and demandingness of human rights, and the ethics of humanitarian intervention.

Note: Expected to be given in 2011–12.

***Government 98sm. Political Regimes around the World - (New Course)**

Catalog Number: 35067 Enrollment: Limited to 16.

Sebastian Lucas Mazzuca

Half course (fall term). W., 2–4. EXAM GROUP: 7, 8

French Revolution, Rise of Nazism, breakdown of USSR. Do these transformations involve a change of government, or regime or of state? What are the causes? Would you like to be confident in answering such questions, and deepen your ability to analyze big political events? If so, this course is for you. It will cover: the *conceptualization* of political regime, democracy and authoritarianism; the *characterization* of political regimes around the world; the *explanations* of regime change.

***Government 98sp (formerly *Government 90sp). Future of War**

Catalog Number: 6012 Enrollment: Limited to 16.

Stephen P. Rosen

Half course (spring term). W., 2–4. EXAM GROUP: 7, 8

Examines the character and implications of political and technological factors that could affect the future conduct of war.



[*Government 98vm (formerly *Government 90vo). Contemporary Democratic Theory: Seminar]

Catalog Number: 94089 Enrollment: Limited to 16.

Dennis F. Thompson

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

A critical examination of three prominent theories of democracy. The seminar is intended for juniors who plan to write a senior thesis on some aspect of democratic theory. In the first half of the seminar, students read the work of theorists and their critics, and consider several challenges faced by all democratic theories, such as the potential conflict between democracy and justice, the scope of citizenship, and obligations to future generations. In the second half of the seminar, students present in class a prospectus for a thesis, and a draft of the final paper for the course, which may also be a possible chapter for their thesis.

Note: Expected to be given in 2011–12.

***Government 98wd. Islam and Secular Public Spaces: Case Studies from Pakistan, Egypt and the West - (New Course)**

Catalog Number: 17255 Enrollment: Limited to 16.

Jocelyne Cesari

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

The course will address the secularization of Islamic Religion both in Muslim countries and in the West. It will start with a study of the current theoretical debates on secularization, discussing recent renewed approaches brought by scholars like Jose Casanova and Talal Asad, who question the central assumptions of decline of religion and of privatization of religious identities. All materials to understand the situation in specific Muslim countries will be provided in class.

Cross-listed Courses

East Asian Studies 98b. Junior Tutorial--State and Society in Contemporary Japan

East Asian Studies 98d. Junior Tutorial--The Political Economy of Modern China

East Asian Studies 195. Fighting Poverty in China: Redistribution, Social Rights & NGOs in Comparative Perspective

Political Methodology and Formal Theory

For Undergraduates and Graduates

***Government 1000. Quantitative Methods for Political Science I**

Catalog Number: 3990

Adam Glynn

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

An introduction to statistical research in political science with a focus on applied multiple linear regression.

Note: Frequently taken by graduate students satisfying department requirements. Also open to qualified undergraduates. This course, when taken for a letter grade, meets the Core requirement for Quantitative Reasoning.

Prerequisite: Gov. 50, or equivalent, or permission of the instructor.



Government 1002. Advanced Quantitative Political Methodology

Catalog Number: 0181

Gary King

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

Introduces theories of inference underlying most statistical methods and how new approaches are developed. Examples include discrete choice, event counts, durations, missing data, ecological inference, time-series cross sectional analysis, compositional data, causal inference, and others.

Prerequisite: Government 2000 or the equivalent.

Government 1008. Introduction to Geographical Information Systems

Catalog Number: 9732

Sumeeta Srinivasan

Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

This course introduces Geographical Information Systems and their applications. GIS is a combination of software and hardware with capabilities for manipulating, analyzing and displaying spatially referenced information. The course will meet two times a week. Every week, there will be a lecture and discussion as well as a laboratory exercise where students will work with GIS software on the computer.

Note: No prerequisites.

Government 1009. Advanced Geographical Information Systems Workshop

Catalog Number: 8150

Sumeeta Srinivasan

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

This course is a workshop for students who have taken the introductory Geographical Information Systems course and want to explore detailed applications. The course will meet two times a week for a lecture and a laboratory exercise.

***Government 1010a. Survey Design - (New Course)**

Catalog Number: 26161 Enrollment: For undergraduates, Gov 50 is required (or can be taken simultaneously) or an equivalent statistics or methods course with instructor permission; graduate students require instructor permission.

Patrick J. Moynihan and Stephen Daniel Ansolabehere

Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

This course, the first in a year-long sequence, introduces students to the best practices in survey design as well as the theoretical underpinnings and concrete challenges of survey research, intended to help students better understand, interpret and critically evaluate surveys and public opinion polls. Students will have the opportunity to gain real, hands-on experience in the conceptualization and design of a survey to be fielded in the spring as part of Gov1010b.

***Government 1010b. Survey Implementation and Analysis - (New Course)**

Catalog Number: 41268

Patrick J. Moynihan and Stephen Daniel Ansolabehere

Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

This course, the second in a yearlong sequence, will emphasize key principles in the field of survey research including coverage, sampling, measurement and nonresponse errors. Students



will learn how to assess the quality of public polling data, as well as fundamental skills in analyzing and reporting survey data. The course will culminate in a final research paper (including the analysis of survey data) on a topic of the student's choosing.

Prerequisite: Gov 1010a - other qualified students (undergraduate or graduate) with instructor's permission

***Government 1013. Election Polling and Public Opinion - (New Course)**

Catalog Number: 11054

Patrick J. Moynihan

Half course (spring term). W., 4–6. EXAM GROUP: 9

This course will provide students an opportunity to examine the intersection between research methods and political discourse by focusing attention on election and public opinion polls, particularly as reported in the media and used as a source of political information by both the general public and political leaders. Students will gain practical skills in survey design and evaluation by analyzing and critically assessing current opinion polls, designing survey questions and interpreting results.

Government 1016. Spatial Models for Social and Environmental Policy

Catalog Number: 0737

Sumeeta Srinivasan

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

Introduces the fundamental statistical and mapping tools needed for analysis of environmental and social policy. Topics are linked by environmental and social themes and include spatial statistics; surface estimation; raster algebra; suitability modeling and remote sensing. Students acquire technical skills in both mapping and spatial models. Software packages used include STARS - Space-Time Analysis of Regional Systems, GeoVISTA, ArcGIS, Geoda and MULTISPEC.

Prerequisite: Some prior experience with GIS and knowledge of basic statistics.

Government 1019 (formerly Government 1119). Basic Mathematics for Social Scientists

Catalog Number: 0989

Pedram Safari

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

The aim of this course is to provide the students of social sciences with a conceptual understanding of the basic notions of calculus and matrix algebra.

Government 1020. Intermediate Mathematics for Social Scientists

Catalog Number: 7487

Pedram Safari

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

This course is geared toward graduate students of social sciences (such as government, education, psychology, etc.). The focus is on a conceptual understanding of vector calculus and probability, as well as applications.

Cross-listed Courses



[Empirical and Mathematical Reasoning 13 (formerly Social Analysis 46). Analyzing Politics]

Primarily for Graduates

***Government 2000. Introduction to Quantitative Methods I**

Catalog Number: 2281

Adam Glynn

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

Graduate-level version of Government 1000. Meets with Government 1000, an introduction to statistical research in political science with a focus on applied linear regression. Will require extra homework and examination problems in addition to those for Government 1000.

Prerequisite: Permission of the instructor for anyone other than Government Department graduate students.

***Government 2000e. Introduction to Quantitative Methods I - (New Course)**

Catalog Number: 36268

Adam Glynn

Half course (fall term). Tu., 2–4.

Essential elements of Gov. 2000. Meets with Gov 2000 and provides an introduction to statistical research in political science with a focus on applied linear regression. Some of the statistical computing from Gov 2000 will not be required.

Prerequisite: Permission of the instructor for anyone other than Government Department graduate students.

Government 2001. Advanced Quantitative Research Methodology

Catalog Number: 8941

Gary King

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

Graduate-level version of Gov. 1002. Meets with Gov. 1002, introduces theories of inference underlying most statistical methods and how new approaches are developed. Examples include discrete choice, event counts, durations, missing data, ecological inference, time-series cross sectional analysis, compositional data, causal inference, and others. Will require extra homework and examination problems in addition to those for Gov. 1002.

Prerequisite: Government 2000 or the equivalent.

Government 2002. Topics in Quantitative Methods

Catalog Number: 8168

Arthur P. Spirling and Adam Glynn

Half course (spring term). Tu., 10–11:30. EXAM GROUP: 12, 13

Will cover topics of general interest to political methodology: causal inference, graphical models, mixed methods, contest modeling, text-as-data, item response. Illustrates how ideas and methods from these areas can be applied to substantive questions.

Prerequisite: Government 2000 and Government 2001, or equivalent, or permission of the instructor.



Government 2005. Formal Political Theory I

Catalog Number: 1719

James M. Snyder

Half course (fall term). Tu., Th., 11:30–1.

A graduate seminar on microeconomic modeling, covering price theory, decision theory, social choice theory, and game theory.

Government 2006. Formal Political Theory II

Catalog Number: 5487

James Robinson

Half course (spring term). Tu., Th., 2–3:30. EXAM GROUP: 16, 17

Continuation of Government 2005.

[Government 2007. Political Economics]

Catalog Number: 2094

James Robinson

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

This course covers the basic analytical approaches to political economy and their application.

Note: Expected to be given in 2011–12.

***Government 2009. Methods of Political Analysis**

Catalog Number: 1080 Enrollment: Limited to 15.

Peter A. Hall

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

Covers the issues and techniques central to designing and researching a good dissertation, whether quantitative or qualitative, including principles of research design, case selection, comparison, measurement, and causal relations, with many practical examples.

Note: Open to all doctoral students, regardless of year, and to advanced undergraduates.

Government 2010. Strategies for Political Inquiry

Catalog Number: 7421

Michael J. Hiscox

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

Research design for causal inference in qualitative and quantitative studies. Topics covered include measurement, conceptualization, case studies, the relationship between large-n and small-n studies, process-tracing, surveys, field experiments, and natural experiments, with examples of their use in political science.

Note: Primarily for graduate students; may also be taken by undergraduates preparing for senior thesis research.

Political Thought and Its History

For Undergraduates and Graduates

Government 1052. History and Freedom in German Idealism

Catalog Number: 3628



Michael E. Rosen

Half course (fall term). M., W., (F.), at 10. EXAM GROUP: 3

The high period of German Idealism (from 1781, the date of the publication of Kant's Critique of Pure Reason, to the death of Hegel in 1831) is one of the most revolutionary in the history of philosophy. We shall study the period using the central ideas of history and freedom as our guide and trace how modern ideas regarding freedom, the self, and the historical character of knowledge have their origins in the Idealists' thought.

Government 1060. Ancient and Medieval Political Philosophy

Catalog Number: 4978

Aaron Garrett (Boston University)

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

Classical and medieval political philosophy, from Plato to Thomas Aquinas, with special attention to the question of natural right.

Note: This course, when taken for a letter grade, meets the Core area requirement for Moral Reasoning.

Government 1061. The History of Modern Political Philosophy

Catalog Number: 5035

Harvey C. Mansfield

Half course (spring term). Tu., Th., 11:30-1 . EXAM GROUP: 13, 14

Political philosophy from Machiavelli to Nietzsche, with attention to the rise and complex history of the idea of modernity.

Note: This course, when taken for a letter grade, meets the General Education requirement for Ethical Reasoning or the Core area requirement for Moral Reasoning. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past.

Government 1082. What is Property?

Catalog Number: 2723

Eric M. Nelson

Half course (fall term). Tu., Th., at 11. EXAM GROUP: 13

This course will investigate the major theories of property in the Western political tradition and address such key questions as: How do we come to own things? What claims do others have on the things we own? Is the community the ultimate owner of all goods? Do property rights really exist, and, if so, what is their source? Readings will include the Bible, Plato, Aristotle, Cicero, More, Harrington, Locke, Marx, and Nozick.

Note: This course, when taken for a letter grade, meets the Core area requirement for Moral Reasoning.

Government 1092. Progressive Alternatives: Institutional Reconstruction Today

Catalog Number: 6197

Roberto Mangabeira Unger (Law School)

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

An exploration of the past and future agenda of progressives, whether self-described as liberals or as leftists. What should they propose, now that they no longer believe in the usefulness of



governmental direction of the economy or in the sufficiency of redistributive social programs? A central theme is the relation of programmatic thought to the understanding of change and constraint. Readings from classic and contemporary social and political theory. Extended take-home examination.

Note: Offered jointly with the Law School as 44605A.

[Government 1093. Ethics, Biotechnology, and the Future of Human Nature]

Catalog Number: 4613 Enrollment: May be limited.

Michael J. Sandel and Douglas A. Melton

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

Explores the moral, political, and scientific implications of new developments in biotechnology. Does science give us the power to alter human nature? If so, how should we exercise this power? The course examines the science and ethics of stem cell research, human cloning, sex selection, genetic engineering, eugenics, genetic discrimination, and human-animal hybrids.

Note: Expected to be given in 2011–12. May not be taken concurrently with LS 60. May not be taken for credit if LS 60 has already been taken. Moral Reasoning 22 (Justice) is recommended as background. This course, when taken for a letter grade, meets the General Education requirement in Ethical Reasoning or the Core area requirement for Moral Reasoning.

[Government 1094. The Jewish Political Tradition]

Catalog Number: 19726

Eric M. Nelson

Half course (spring term). M., W., at 11.

The Jews existed as a stateless people for nearly two thousand years. Yet, throughout this period, they continued to make rich contributions to the theory and practice of politics. This course will examine the history of Jewish political thought, beginning with the Hebrew Bible itself and concluding with the birth of Zionism. Special attention will be paid to the influence of Jewish political writing in Christian Europe and in the early American republic.

Note: Expected to be given in 2011–12.

Cross-listed Courses

Note: These courses do *not* satisfy the political theory field requirement in Government except Moral Reasoning 17, Moral Reasoning 22, Moral Reasoning 58, and Moral Reasoning 68.

[African and African American Studies 130. W. E. B. Du Bois: Social and Political Writings](#)
[\[Economics 2080. Economics and Politics: The Foundations of Economics in Political Theory\]](#)

[Ethical Reasoning 11. Human Rights: A Philosophical Introduction](#)

[\[Ethical Reasoning 16 \(formerly Moral Reasoning 58\). Slavery in Western Political Thought\]](#)

[Ethical Reasoning 22 \(formerly Moral Reasoning 22\). Justice](#)

[\[*History 73a \(formerly History 1474\). Republics and Republicanism\]](#)

[*History 83f. Political Theology - \(New Course\)](#)

[\[History 1322. Heidegger and Arendt\]](#)

[History 1323. German Social Thought, Nietzsche to Habermas - \(New Course\)](#)



History 1324. French Social Thought - (New Course)

History 1350. Theories of Secularization: Conference Course

Philosophy 178. Equality and Democracy

Primarily for Graduates

***Government 2030. Political Concepts: Field Seminar**

Catalog Number: 0551 Enrollment: Limited to graduate students in Government

Dennis F. Thompson

Half course (fall term). W., 2–4. EXAM GROUP: 7, 8

Reading and discussion of rival accounts of the basic concepts of political thinking.

***Government 2034. Ethics Economics, and Law**

Catalog Number: 4652

Michael J. Sandel

Half course (fall term). M., 5–7 p.m. EXAM GROUP: 9

Explores controversies about the use of markets and market reasoning in areas such as organ sales, procreation, environmental regulation, immigration policy, military service, voting, health care, education, and criminal justice. The seminar will examine arguments for and against cost-benefit analysis, the monetary valuation of life and the risk of death, and the use of economic reasoning in public policy and law.

Note: Offered jointly with the Law School as LAW - 93375A. Meets at the Law School. Open to GSAS students with permission of the instructor.

[Government 2056. Political Thought of the English Revolution]

Catalog Number: 5107

Eric M. Nelson

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

This course will survey the remarkable range of political responses to the English constitutional crisis of 1640 to 1660, from theories of divine right to the arguments of the Levellers. Readings will include Filmer, Harrington, Lilburne, Milton, Nedham, Parker, and Sidney. Special attention will be paid to the idiosyncratic perspective of Thomas Hobbes.

Note: Expected to be given in 2011–12.

Government 2077. Thomas Hobbes - (New Course)

Catalog Number: 51629

Richard Tuck

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

Investigates the philosophy of Thomas Hobbes: his metaphysics, physics, ethics, and political theory. A wide range of his writings are studied, and placed in their historical context.

***Government 2080. Machiavelli**

Catalog Number: 4345 Enrollment: Limited to 20.

Harvey C. Mansfield

Half course (spring term). W., 4–6. EXAM GROUP: 9

Machiavelli as philosopher, critic of humanism, inventor of crafty political strategies, promoter



of dubious virtue, master conspirator, founder of modernity. Readings in his major and minor works.

Note: Open to qualified undergraduates.

[Government 2088. Ethical Foundations of Political Thought]

Catalog Number: 2378

Michael E. Rosen

Half course (fall term). W., 1–3.

This class will cover areas of contemporary moral philosophy (for instance, utilitarianism, freedom, the nature of value, consent, well-being and desert) that are of particular relevance to political theorists.

Note: Expected to be given in 2011–12.

[Government 2093. Cicero: Seminar]

Catalog Number: 78982

Richard Tuck

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

This course will study Cicero's moral and political ideas against the background of his political activity, and will also consider his influence on medieval and Renaissance writers. No Latin required. Qualified undergraduates may be admitted.

Note: Expected to be given in 2011–12.

[Government 2094. Kant and Kantianism]

Catalog Number: 55223

Patrick T. Riley

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

The main political, moral, legal and historical works of Kant (including the three Critiques), plus Kant-interpretations of Hegel, Marx, Nietzsche, Rawls, Arendt, Korsgaard, Nora O'Neill, etc.

Note: Expected to be given in 2011–12.

Government 2096. Topics in Political Philosophy - (New Course)

Catalog Number: 88503

Michael E. Rosen and Thomas M. Scanlon, Jr.

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

Central questions in political philosophy, focusing on the scope, content and normative role of justice. Readings mainly from contemporary sources.

***Government 2097. Justice as Love and Benevolence (from Plato, Cicero and Augustine to Shakespeare, Leibniz and Freud) - (New Course)**

Catalog Number: 52088 Enrollment: Open to qualified undergraduates with instructor's permission

Patrick T. Riley

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

Justice as 'ascent' from negative legal forbearance, from harm to doing positive good from 'wise love' and benevolence. Readings from Plato, Cicero, Augustine, Shakespeare (four plays), Leibniz, Wagner and Freud (Civilization and "Leonardo da Vinci".)



Cross-listed Courses

Economics 2054. Social Choice and Welfare Economics

[Economics 2080. Economics and Politics: The Foundations of Economics in Political Theory]

Comparative Government

For Undergraduates and Graduates

Government 1100. Political Economy of Development

Catalog Number: 7687

Robert H. Bates

Half course (fall term). M., W., at 3. EXAM GROUP: 8

Comparative analysis of political economy of development drawing on case studies from Africa, Asia, the Middle East, and Latin America.

Note: This course, when take for a letter grade, meets the General Education requirement for Societies of the World or the Core area requirement for Social Analysis.

Government 1109. Comparative Institutional Design - (New Course)

Catalog Number: 56707

Pippa Norris

Half course (fall term). M., 2–4. EXAM GROUP: 7, 8

Institutional choices are vital for effective peace-building and for strengthening the quality of democratic governance. This course compares: (i) the principles and goals of constitutional design; (ii) the mechanisms of institutional design (electoral rules, parliamentary and presidential executives, decentralization, and minor reforms); (iii) political processes determining institutional choices; and (iv) the consequences (for political behavior, economic performance, regime stability, the quality of governance, democracy and democratization). Materials draw upon global comparisons and selected cases from long-standing and younger liberal democracies, as well as from countries emerging from conflict.

[Government 1111. Political Institutions in Developing Countries]

Catalog Number: 7400

Nahomi Ichino

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

This course broadly examines how formal political institutions vary across countries, why these differences matter, and how these institutions change. Topics covered include regime type, presidentialism, parliaments and legislatures, government formation, rules governing elections, the franchise, political parties, the judiciary, bureaucracy, and federalism.

Note: Expected to be given in 2011–12.

***Government 1115. Social Movements, Protest and Politics in Comparative Perspective - (New Course)**

Catalog Number: 66736 Enrollment: Limited to 15.

Grzegorz Ekiert



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

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 1132. Comparative Political Economy, Developed Countries

Catalog Number: 77322

Torben Iversen

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

This course is a survey of topics and theories in comparative political economy with a focus on developed democracies in Western Europe, North America, and East Asia. The course applies insights from both political science and economics to explain why economic performance, distribution, and economic policies vary across countries. The course complements "Comparative Political Economy, Developing Countries", although one is not a prerequisite for the other.

Government 1170. Nation-Building and Democracy in the Development of Europe

Catalog Number: 2585

Daniel F. Ziblatt

Half course (spring term). Tu., Th., at 11. EXAM GROUP: 13

The course introduces students to the political development of western and eastern Europe, providing students with key historical context for understanding the challenges of on going European integration and enlargement. The main focus will be on the issues of feudalism, state-formation, revolution, industrialization, nationalism, and democracy to explore the origins and consequences of the historic divide between the two halves of Europe.

Government 1197. The Political Economy of Africa

Catalog Number: 9130

Robert H. Bates and James Robinson

Half course (spring term). M., W., at 9. EXAM GROUP: 2

The basic social science literature on Africa's development. Particular emphasis on political economy.

Government 1203. Capitalism and Democracy in Central and Eastern Europe

Catalog Number: 7078

Grzegorz Ekiert

Half course (spring term). W., F., at 11; . EXAM GROUP: 4

General introduction to East European politics focusing on the countries outside the former Soviet Union. Examines critical periods and dynamics of political and economic changes in the region from the end of World War I to the recent enlargement of the European Union.

[Government 1243. Russian Politics in Transition]

Catalog Number: 1982

Timothy J. Colton

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



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.
Note: Expected to be given in 2011–12.

Government 1255. The Politics of India

Catalog Number: 57342

Prerna Singh

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

This course will introduce students to politics in the world's largest democracy, focusing on themes both important to India and to a general study of politics in developing countries. How does one make sense of democracy in a poor multi-ethnic setting? How has democratic politics shaped and been shaped by a society divided along a caste, class, linguistic and religious lines? And how well has India fared in promoting economic development, both growth and equity?

***Government 1273. The Political Economy of Japan**

Catalog Number: 1365 Enrollment: Limited to 35. Approval of instructor needed for Graduate Students to enroll in this class.

Kenichi Ariga

Half course (spring term). Tu., Th., at 10. EXAM GROUP: 12

Examines the history of Japan's political economy, its recent success and its current problems. Why did Japan succeed in becoming the first non-Western society to industrialize? Did Japan develop a particular brand of capitalism? What role did the political system play? What are its advantages and disadvantages of the Japanese model? Can it overcome the current technological changes and global pressures? Or is it no longer a viable model to emulate?

Government 1280. Government and Politics of China

Catalog Number: 1643 Enrollment: Approval of instructor is needed for Graduate students to enroll in this course.

Nara Dillon

Half course (fall term). Tu., Th., 1-2:30. EXAM GROUP: 15, 16

General introduction to the politics of contemporary China. Basic objectives are to provide a working knowledge of Chinese political programs and practices, and to encourage a critical evaluation of the positive and negative aspects of China's socialist experiment.

Government 1291. The Politics of Social Policy in Brazil - (New Course)

Catalog Number: 50506

Frances Hagopian (University of Notre Dame)

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

Assesses Brazil's social policy failures and successes, focusing on education, health, social security, and poverty alleviation. Introduces students to Brazil's political institutions; political and social actors; and state reforms. Identifies factors, including program design, power of privileged groups, and widespread political clientelism in the social services, that have



contributed to Brazil's weak social welfare state and policy failures, and examines changes that have improved social policy outputs and the lingering obstacles to further progress.

Government 1294. Latin American Politics and Economy in the Long Run - (New Course)

Catalog Number: 61785

Sebastian Lucas Mazzuca

Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

This course examines political and economic change in Latin America. It focuses on five macro-processes: the creation of states and markets in 1850-1900, the design of oligarchic power-sharing institutions at the beginning of the 20th century, industrialization and the emergence of mass politics in 1920-1950, the widespread collapse of democracy and establishment of military regimes in 1960-1980, and contemporary processes of democratization and economic liberalization. In the search for causes and consequences, we consider multiple theoretical perspectives.

[Government 1295. Comparative Politics in Latin America]

Catalog Number: 4241

Steven R. Levitsky

Half course (spring term). M., W., 2-3:30, and a section to be arranged.

Examines dynamics of political and economic changes in modern Latin America, focusing on Argentina, Brazil, Chile, Cuba, Mexico and Venezuela. Topics include the rise of populism and import-substituting industrialization, revolutions and revolutionary movements, the causes and consequences of military rule, the politics of economic reform, democratic transitions, and democratic consolidation. The course analyzes these phenomena from a variety of different theoretical perspectives, including cultural, dependency, institutionalist, and leadership-centered approaches.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Social Analysis.

Cross-listed Courses

Economics 1370. Media, Democracy and Economics

Economics 1814. Small Differences that Matter: Public Policy Comparisons between Canada and the United States - (New Course)

[History 1281. The End of Communism]

Religion 1080. Modern States and Religion - (New Course)

Religion 1832. Political Islam in the 20th and 21st Centuries - (New Course)

Social Analysis 52. The Political Economy of Development

[Societies of the World 15 (formerly Historical Study B-64). The Cuban Revolution, 1956-1971: A Self-Debate]

[Societies of the World 20 (formerly Foreign Cultures 48). The Cultural Revolution]

[Societies of the World 32 (formerly Historical Study A-73). The Political Development of Western Europe]

Primarily for Graduates



***Government 2105. Comparative Politics: Field Seminar**

Catalog Number: 0154

Daniel F. Ziblatt (fall term) and Jorge I. Domínguez (fall term); Nahomi Ichino (spring term)

Half course (fall term; repeated spring term). W., 2–4. EXAM GROUP: 7, 8

Surveys topics in comparative politics (both the developed and the developing world), including the rise of the modern state; institutions of government; interest mediation; democracy and authoritarianism; revolution; political parties; mass and elite political behavior; political economy.

Note: Preference given to FAS Government graduate students.

[*Government 2125. Religion and Global Politics]

Catalog Number: 35165

Monica D. Toft (Kennedy School)

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

Religion is clearly a force to be reckoned with in global politics. Yet, its connection is not well understood. This course examines the conditions under which religion contributes to conflict or cooperation in international politics.

Note: Expected to be given in 2011–12. Open to junior and senior undergraduates with permission of instructor. Offered jointly with the Kennedy School as IGA-315. Meets at the Kennedy School.

Government 2126. Political Corruption (Graduate Seminar in General Education) - (New Course)

Catalog Number: 23456 Enrollment: Limited to 15.

James E. Alt and Daniel F. Ziblatt

Half course (spring term). W., 2–4. EXAM GROUP: 7, 8

Addresses the definition, causes, patterns, consequences, and control of political corruption, and its relationship to political and economic development. The seminar will design and develop a General Education course on these themes for undergraduates.

Note: Expected to be omitted in 2011–12.

[Government 2131. Comparative Politics of Latin America]

Catalog Number: 3337

Jorge I. Domínguez and Steven R. Levitsky

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 2011–12.

[*Government 2136. Political Regimes and Regime Change]

Catalog Number: 5702 Enrollment: Limited to 15.

Steven R. Levitsky and Daniel F. Ziblatt

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

This course examines theoretical approaches to democratization, evaluating them in light of



historical and contemporary cases. We examine themes such as the relationship of free markets/democracy, the proliferation of hybrid regimes, and authoritarian persistence.

Note: Expected to be given in 2011–12.

Government 2148. Civil Society, West and East

Catalog Number: 4675

Susan J. Pharr and Grzegorz Ekiert

Half course (fall term). Th., 4–6. EXAM GROUP: 18

Focusing in particular on European and Asian settings, the seminar examines debates over what civil society is, notions of public space and social capital, and the role of civil society in political transitions.

***Government 2158. Political Institutions and Economic Policy**

Catalog Number: 6448 Enrollment: Limited to 16.

Kenneth A. Shepsle and Jeffry Frieden

Half course (spring term). M., 4–6. EXAM GROUP: 9

We explore the role of political institutions in the formation, implementation, and regulation of economic policy. Theories from positive political theory and comparative and international political economy are examined and applied to substantive issue areas.

***Government 2160. Politics and Economics**

Catalog Number: 7780 Enrollment: Limited to 15.

James E. Alt and Torben Iversen

Half course (fall term). W., 12–2.

Covers the political economy of policymaking and institutional change. Readings include a mixture of foundational approaches and recent research, covering a variety of methodological perspectives. The topical emphasis is on democracy, accountability, inequality, redistribution, and growth.

[Government 2176. Politics of Social Inequality in the Developed Democracies]

Catalog Number: 7083 Enrollment: Open to qualified undergraduates.

Peter A. Hall

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

Considers competing perspectives on the social well being of nations and its determinants. Topics include: the politics of inequality in the development of democracy, the electoral causes and consequences of inequality, change in varieties of capitalism, the impact of culture and institutions on inequalities of income and health, with a focus on Europe and the OECD countries.

Note: Expected to be given in 2011–12.

***Government 2177. Cohesion and Competitiveness of the Enlarged European Union - (New Course)**

Catalog Number: 58367

Michael Alroy Landesmann (Kennedy School)

Half course (fall term). M., W., 2:40–4.

This course covers economic developments in the Enlarged European Union but will also refer to



‘Wider Europe’. Emphasis is on issues of ‘cohesion’ and ‘competitiveness’, the two areas which have dominated the policy debate within the European Union.

Note: Offered jointly through the Kennedy School as IGA-326. IGA-326 meets at the Kennedy School RG 20.

[Government 2213. Comparative Politics of Post-Socialism]

Catalog Number: 6876

Timothy J. Colton and Grzegorz Ekiert

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

A research seminar designed to define an agenda for the comparative analysis of political developments among post-socialist systems. Emphasis placed on the formation of research proposals, methods of analysis, theory-building, and the presentation of comparative empirical research.

Note: Expected to be given in 2011–12.

Government 2218. Topics in Russian Politics

Catalog Number: 0872

Timothy J. Colton

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

A research seminar on selected problems in the politics and government of post-Soviet Russia. Intended for students with some prior study of the subject.

***Government 2219. The Politics of Islam in the Former Communist World - (New Course)**

Catalog Number: 41473 Enrollment: Limited to 20. Open to qualified undergraduates

John S. Schoeberlein

Half course (fall term). Tu., 12–2.

Examines desecularization and re-Islamization of state ideology and institutions, and rise of radical Islamism in Central Asia, Russia, the Caucasus, Balkans and China. Focuses on political theory of ideology, mobilization, social transformation, and the state.

Government 2227. The Politics and Economics of Africa

Catalog Number: 8307 Enrollment: Open to juniors and seniors with permission of instructor.

Robert H. Bates

Half course (spring term). W., 10–12.

Examines social science research on the politics and political economy of Africa.

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 PRC authors have analyzed the politics of their country and comparisons with relevant Western accounts.

Note: Open to qualified undergraduates.

Prerequisite: A good reading knowledge of Chinese and previous course work on Chinese politics.



***Government 2285. Political Science and China**

Catalog Number: 1566

Elizabeth J. Perry

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

This graduate seminar gives students control over the secondary literature on Chinese politics, with special attention to competing theoretical and methodological approaches.

Note: Requires background in contemporary Chinese history/politics.

Cross-listed Courses

[Economics 2328. The Emergence of Modern Economic Growth: A Comparative and Historical Analysis]

American Government, Public Law and Administration

For Undergraduates and Graduates

Government 1310. Introduction to Congress

Catalog Number: 33915

Matthew B. Platt

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

This course seeks to provide students with a comprehensive introduction to Congress. The first half of the course addresses the nuts and bolts of how Congress operates in terms of foundational theories, the committee system, congressional elections, and congressional procedures. In the second half of the course we will apply this knowledge to an exploration of how and why Congress pays attention to certain issues rather than others. Students are encouraged to view Congress not only as an institution unto itself but also as an institution that interacts with a variety of actors to shift public policy.

Government 1328. Electoral Politics - (New Course)

Catalog Number: 72937

Stephen Daniel Ansolabehere and James M. Snyder

Half course (fall term). Tu., Th., 8:30–10. EXAM GROUP: 10, 11

Elections are the foundation of American democracy. This course focuses on the simple questions: Who wins elections and why? Answers to these questions guide the interpretation of elections and evaluation of how well government represents the public preferences. The first half of the course presents the basic explanations and models of elections and voting behavior, and asks students to make their best forecast of the election. The second half of the course will examine why the models worked or didn't work. Students will learn how to interpret and analyze surveys and other data, to estimate models and make forecasts, and test arguments and models using predictions.

Note: This course, when taken for a letter grade, meets the Core area requirement for Quantitative Reasoning.

Government 1358. Presidential Power in the United States

Catalog Number: 65711



Carlos E. Díaz Rosillo

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

Analyzes the origins and evolution of presidential power in the United States. Studies the powers of the President and how those powers translate into power. Examines and evaluates the most prominent political science theories, scholarly debates, and public controversies about presidential power. Explores the strategic choices available to modern American presidents in their efforts to augment the power of the presidency and provide active leadership to the political system.

Government 1362. Democratic Citizenship Public Opinion and Participation in the US

Catalog Number: 8628

Claudine Gay

Half course (fall term). Tu., Th., at 10. EXAM GROUP: 12

Course examines the nature of public opinion and political participation. Considers how people acquire, organize, and apply their political beliefs; historical and contemporary patterns of public opinion, with emphasis on conflicts of values and social groups; who votes and why; the role of the media and political campaigns in mobilization and in formation of public opinion; and linkage between opinion, participation, and policy, with attention to whether citizens can discharge the responsibilities of democratic citizenship.

Government 1368. The Politics of American Education

Catalog Number: 8971

Paul E. Peterson

Half course (fall term). M., W., F., at 2. EXAM GROUP: 7

This course examines the politics of education in the United States. It considers the key institutions (e.g. school districts, mayors, states, Congress, and courts) and actors (e.g. elected officials, parents, teachers, interest groups, and the general public) shaping the American K-12 education system in order to understand recent reform efforts and their consequences for students. We will look closely at past conflicts over education governance, ongoing policy challenges, and the forces shaping current reform efforts.

Government 1372. Political Psychology - (New Course)

Catalog Number: 40477

Ryan Enos

Half course (spring term). Tu., Th., 10–11:30; Th., at 4. EXAM GROUP: 12, 13

This course examines the psychological mechanisms behind political behaviors and institutions. Topics covered will include voting behavior, campaigns and media, partisanship, political violence, and racial attitudes. For these and other topics we will not only ask what happens but examine how human psychology makes it happen.

Government 1511. The Constitution and the American Political System

Catalog Number: 90593

Sanford V. Levinson (University of Texas-Austin)

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

The course will examine American constitutions regarding both the normative and empirical assumptions they make about political life and the specific kinds of politics they help constitute



through the institutions they establish. Although the United States Constitution will inevitably be the central focus, state constitutions will also be receive considerable attention, not least because they are often strikingly different from the national constitution and each other. Occasional attention will also be directed at foreign constitutions.

Note: This course, when taken for a letter grade, meets the Core requirement for Moral Reasoning.

[Government 1521. Bureaucratic Politics: Government, Economic, Social and Military Organizations]

Catalog Number: 6271

Daniel P. Carpenter

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

A theoretical and historical analysis of bureaucratic organizations in various domains of modern society, including military organizations, business corporations, non-profit organizations, regulatory agencies, executive departments, and religious organizations. Theories include institutional, transaction-cost, reputation-based, and cultural theories of formal organizations. Readings and cases will include the US Army and other militaries, the business corporation in industrializing America and today, the FDA and the Forest Service, the Catholic Church, and police and educational organizations.

Note: Expected to be given in 2011–12.

[Government 1524. Agenda Setting in Congress]

Catalog Number: 1092

Matthew B. Platt

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

This course is interested in understanding how and why Congress pays attention to certain issues rather than others. The intent is to provide a comprehensive look at the roles of institutional design, citizen participation, political entrepreneurship, and media coverage in placing issues onto the congressional agenda. Students will be encouraged to integrate knowledge from a variety of subfields in American politics to offer a broader view of how issues are placed onto the congressional agenda - and ultimately - shift public policy.

Note: Expected to be given in 2011–12.

Government 1535. Supreme Court & American Politics

Catalog Number: 15312

Ryan James Owens

Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

This course provides undergraduates with a systematic understanding of the Supreme Court from a social science perspective. We examine issues regarding judicial process and politics, and how various actors attempt to achieve their goals within a broader institutional framework.

Government 1540. The American Presidency

Catalog Number: 4925

Roger B. Porter (Kennedy School)

Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

Course analyzes the development and modern practice of presidential leadership. Examines the



institutional presidency, presidential selection, decision making, and the relationship of the presidency with the executive branch, Congress, courts, interest groups, the press and the public. Considers the political resources and constraints influencing the President's ability to provide leadership in the US political system.

Note: Offered jointly with the Kennedy School as DPI-115. Meets at FAS.

Cross-listed Courses

[African and African American Studies 128. Black Nationalism]

[Environmental Science and Public Policy 78. Environmental Politics]

United States in the World 15 (formerly Social Analysis 66). Is the American Racial Order Being Transformed?

United States in the World 20 (formerly Moral Reasoning 74). The Theory and Practice of Republican Government

United States in the World 25 (formerly Historical Study B-61). The Warren Court and the Pursuit of Justice, 1953-1969

United States in the World 31 (formerly Social Analysis 54). American Society and Public Policy

Primarily for Graduates

***Government 2305. American Government and Politics: Field Seminar**

Catalog Number: 2305

Jennifer L. Hochschild and Ryan Enos

Half course (fall term). M., 2–4. EXAM GROUP: 7, 8

Designed to acquaint PhD candidates in Government with a variety of approaches that have proved useful in examining important topics in the study of American government and politics.

[Government 2310. Social Capital and Public Affairs: Research Seminar]

Catalog Number: 7051

Robert D. Putnam

Half course (spring term). W., 4–6.

Topics in the relationship between politics and civil society in the US.

Note: Expected to be given in 2011–12. Offered jointly with the Kennedy School as DPI-360.

Meets at the Kennedy School.

[*Government 2314. Topics in American Political Behavior]

Catalog Number: 8452 Enrollment: Open to PhD students only

Claudine Gay

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

Course surveys field of political behavior, emphasizing recent developments in literature. Topics include uncertainty; opinion change and learning; partisanship and ideology; salience of race and social identity; participation; links between public opinion, elections, and policy.

Note: Expected to be given in 2011–12.



[Government 2328. Electoral Politics]

Catalog Number: 76072 Enrollment: Open to qualified undergraduates with permission of instructor.

Stephen Daniel Ansolabehere

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

This seminar examines the politics of US elections, with emphasis on theoretical models of electoral competition and empirical research of voting behavior and election outcomes. The first third of the seminar examines voter behavior, the second third of the seminar electoral competition among parties and candidates and aggregate election results, and the final third of the seminar examines electoral institutions and laws. Specific topics include party competition, incumbency advantages, electoral districts, campaign finance, issue and economic voting, and electoral accountability.

Note: Expected to be given in 2011–12. Understanding of statistics strongly recommended. Open to qualified undergraduates with permission of instructor.

Prerequisite: Understanding of statistics strongly recommended.

***Government 2340b. Social Policy II**

Catalog Number: 5491

Theda Skocpol and Richard B. Freeman

Half course (spring term). W., 2–4. EXAM GROUP: 7, 8

Considers the effects of policies and institutions in creating or reducing inequality in the US and other advanced democracies, as well as the reciprocal effects of inequality on political activity and policy choices.

Note: Offered jointly with the Kennedy School as SUP-922.

Government 2351. The United States Supreme Court

Catalog Number: 7351

Ryan James Owens

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

This course provides graduate students with a systematic understanding of the Supreme Court as an institution. We examine issues regarding judicial process and politics, and how participants attempt to achieve their goals within institutional constraints.

[Government 2352. The Politics of the Supreme Court]

Catalog Number: 81941

Ryan James Owens

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

This course provides law and graduate students with a systematic understanding of the Supreme Court from a social science perspective.

Note: Expected to be given in 2011–12. Offered jointly with the Harvard Law School as LAW-. Meets at the Law School.

***Government 2356. Agenda Setting and Representation in Congress - (New Course)**

Catalog Number: 50174 Enrollment: Open to qualified undergraduates with instructor's permission

Matthew B. Platt



Half course (fall term). M., 4–6. EXAM GROUP: 9

This graduate level seminar approaches the Congressional literature with a focus on how to further research in two key areas: agenda setting and representation.

[*Government 2360. Obama’s Agenda and the Dynamics of U.S. Politics: Seminar]

Catalog Number: 51678 Enrollment: Limited to 16.

Theda Skocpol

Half course (spring term). M., 2–4.

Dissects political forces affecting the fate of Obama’s priorities in health care, financial regulation, environment, immigration, higher education, tax/revenue reform, labor reform, and citizen engagement. Students are expected to develop and present their own research.

Note: Expected to be given in 2011–12. Open, with permission of instructor, to graduate students and advanced undergraduate students.

Government 2453. Practical and Theoretical Regulation of Voting

Catalog Number: 9666

Stephen Daniel Ansolabehere and James M. Snyder

Half course (spring term). Tu., 8:30–10:30. EXAM GROUP: 10, 11, 12

The course will focus on points of contact between legal scholarship on voting rights and election law and the political science literature on redistricting, voting behavior, and elections. Emphasis will be placed on how observed data can be, and should be, used as evidence.

Note: Jointly offered with Law School as LAW-34255A.

***Government 2490. The Political Economy of the School**

Catalog Number: 3399

Paul E. Peterson

Half course (spring term). M., 4–6. EXAM GROUP: 9

Examination of political and economic influences on education policy and governance.

Note: Limited enrollment. Background in statistics expected. Permission of instructor required for all students who are not graduate degree candidates in the FAS Department of Government. Offered jointly with the Kennedy School as HLE-348. Meets at the Kennedy School.

Prerequisite: Government 1368, or permission of instructor.

[Government 2576. Racial and Ethnic Politics in the United States]

Catalog Number: 7260

Jennifer L. Hochschild and Claudine Gay

Half course (spring term). M., 4–6.

The course begins with the history and structure of the classic Black-White binary, then addresses ways in which it must be rethought to include other groups, mainly Asians and Latinos. Issues include racialization, immigrant incorporation, political coalitions and conflict, racial mixture, and links between race, class, gender, and ideology. Focuses on the United States but includes comparisons with Europe, Latin America, and South Africa.

Note: Expected to be given in 2011–12.

International Relations



For Undergraduates and Graduates

[Government 1730. War and Politics]

Catalog Number: 6806

Stephen P. Rosen

Half course (fall term). Tu., Th., 2-4.

Explores the organized use of violence for the purposes of the state, with particular attention paid to the question of strategy and the sources of victory.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Historical Study A.

Government 1732. The Origins of Modern Wars

Catalog Number: 7668

Stephen Martin Walt (Kennedy School)

Half course (spring term). M., W., (F.), at 1. EXAM GROUP: 6

This course explores the causes of war. It examines the different theories that have been devised to explain organized violence between states (or groups seeking to control a state), and evaluates these competing theories by exploring several major conflicts of the past 100 years: World War I, World War II, the Cold War, the Arab-Israeli conflict, and the recent wars in the Persian Gulf. The course also considers the phenomenon of ethnic conflict, the implications of nuclear weapons and the question of whether large-scale war is becoming "obsolescent."

Note: This course, when taken for a letter grade, meets the Core area requirement for Historical Study A.

Government 1740. International Law

Catalog Number: 7406

Beth A. Simmons

Half course (fall term). M., W., (F.), at 11.

An introduction to public international law for students of international relations. The primary purpose is to enhance students' understanding of the ways in which international law orders international politics. Emphasis is on the substantive rules of international law, the relationship between law and politics, and cases that illustrate the issues. Topics include international human rights law, international economic law and institutions, the use of force, war crimes, and terrorism.

[*Government 1760. International Relations of East Asia]

Catalog Number: 2733 Enrollment: Limited to 50.

Alastair Iain Johnston

Half course (fall term). M., W., at 1.

Introduction to the historical, military, political, economic, and cultural features of interstate relations in East Asia and the Pacific. The course also presents some theoretical and methodological tools for more systematic analysis of these issues. The goal is to understand changing levels of conflict and cooperation in the region.

Note: Expected to be given in 2011–12.



Government 1780. International Political Economy

Catalog Number: 0272

Jeffrey Frieden

Half course (spring term). M., M/ W., 2- 3:30. EXAM GROUP: 7, 8

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.

Note: This course, when taken for a letter grade, meets the Core area requirement for Social Analysis.

Government 1782. Domestic Politics and International Relations - (New Course)

Catalog Number: 56375

Dustin Tingley

Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

The course will explore the ways domestic politics influence relations between countries, as well as the ways domestic political relationships are influenced by interstate relations. We will cover both security and economic policy areas and explore how they influence each other. The role of interest groups, domestic institutions, and the general public in determining foreign policy will all be studied with a primary emphasis on the United States.

[Government 1982. Chinese Foreign Policy, 1949–2007]

Catalog Number: 8908

Alastair Iain Johnston

Half course (fall term). M., W., 2-3:30.

Introduction to the descriptive history of China's international relations with special focus on different theoretical explanations for changes in foreign policy behavior (e.g. polarity, history, ideology, leadership, bureaucracy, among others).

Note: Expected to be given in 2011–12. No prior background in China or international relations theory required.

Cross-listed Courses

Ethical Reasoning 27 (formerly Moral Reasoning 28). Ethics and International Relations

[French 190. Albert Camus]

***History 82f. The Origins of the Cold War: The Yalta Conference (1945)**

[History 1465 (formerly History 1650b). The United States in the World, since 1900]

Primarily for Graduates

***Government 2710. International Relations: Field Seminar**

Catalog Number: 8310

Beth A. Simmons and Muhammet Ali Bas

Half course (spring term). W., 2–4. EXAM GROUP: 7, 8

A survey of the field.

Note: Limited to Government graduate students. Suitable for students preparing for general examinations.



[Government 2735. Empirical Models in International Relations]

Catalog Number: 9499

Muhammet Ali Bas and Beth A. Simmons

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

This course examines statistical issues relevant to the study of international politics. The purpose is to familiarize students with different models that have been employed in research on international conflict, IPE and international institutions.

Note: Expected to be given in 2011–12.

[Government 2755. International Political Economy]

Catalog Number: 7392

Jeffrey Frieden and Michael J. Hiscox

Half course (fall term). M., 4–6.

A graduate-level introduction to the theoretical and empirical literature on the political economy of international trade, monetary, regulatory, and investment policies.

Note: Expected to be given in 2011–12.

[Government 2782. State Failure and Civil War]

Catalog Number: 0742

Robert H. Bates

Half course (spring term). Th., 3–5.

The study of modern works on civil wars, terrorism, and state failure.

Note: Expected to be given in 2011–12.

***Government 2790. Central Challenges of American National Security, Strategy, and the Press**

Catalog Number: 3567

Graham T. Allison, Jr. (Kennedy School)

Half course (fall term). M., 8:40–11:30.

Grappling with the hardest U.S. national security challenges of the decade ahead—nuclear terrorism, Iran, North Korea, Afghanistan and Pakistan, the rise of China—while the endless cycle of leaks and press analysis complicates the process of developing sound policy and strategy. Students will learn to devise strategies and write strategic options memos as part of the policymaking process, all while balancing the need to communicate to major constituencies to sustain public support, while coping with a world where a pervasive press makes solitary secrecy a luxury of the past.

Note: Offered jointly with the Kennedy School as IGA-201. Meets at the Kennedy School.

[Government 2881. Mass Media, Public Opinion, and Foreign Policy]

Catalog Number: 7305

Matthew Baum (Kennedy School)

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

This course investigates whether, how, and to what extent the mass media and public opinion interact with each other and with political leaders in order to influence the conduct of foreign policy.



Note: Expected to be given in 2011–12. Offered jointly with the Kennedy School as DPI-611.
Meets at the Kennedy School.

Government 2887. International Politics of the Post-Soviet Space - (New Course)

Catalog Number: 15419

Timothy J. Colton

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

Examines trends in international relations and transnational processes among the fifteen post-Soviet states, with special attention to the role of Russia, intra-regional cooperation and conflict, the involvement of outside players, and domestic determinants.

***Government 2891. Research Seminar in Domestic Politics and International Relations - (New Course)**

Catalog Number: 67273

Dustin Tingley

Half course (spring term). W., 4–6.

The course will cover research on the relationship between domestic politics and international relations. Security and economic relations between states will be covered and a variety of methodological approaches discussed.

[Government 2900. US–Latin American Relations]

Catalog Number: 8020

Jorge I. Domínguez

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

Studies US-Latin American political, military, and economic relations and Latin American international relations. Includes foreign policy decision making in the US and Latin America and alternative approaches to the study of the subject.

Note: Expected to be given in 2011–12.

Graduate Courses of Reading and Research

***Government 3000. Reading and Research**

Catalog Number: 3391

James E. Alt 1593, Robert H. Bates 1251, Eric Beerbohm 5558, Daniel P. Carpenter 4509, Timothy J. Colton 2269, Jorge I. Domínguez 3823, Grzegorz Ekiert 2718, Jeffry Frieden 1627, Claudine Gay 5485, Adam Glynn 5600, Peter A. Hall 7272 (on leave fall term), Michael J. Hiscox 4104, Jennifer L. Hochschild 3785 (on leave spring term), Stanley Hoffmann 1757, Nahomi Ichino 5316, Torben Iversen 1250, Alastair Iain Johnston 3213 (on leave 2010-11), Gary King 1723, Steven R. Levitsky 2395 (on leave 2010-11), Roderick MacFarquhar 7856 (on leave spring term), Harvey C. Mansfield 1731, Eric M. Nelson 5345, Elizabeth J. Perry 3074, Paul E. Peterson 2114, Susan J. Pharr 1518 (on leave spring term), Matthew B. Platt 6121, Robert D. Putnam 6193 (on leave 2010-11), Patrick T. Riley 5944, James Robinson 5022, Michael E. Rosen 5610, Stephen P. Rosen 2721, Nancy Lipton Rosenblum 3786 (on leave 2010-11), Pedram Safari 5849, Michael J. Sandel 7065, Kenneth A. Shepsle 1421, Beth A. Simmons 4487, Theda Skocpol 1387, James M. Snyder 6834 (spring term only), Sumeeta Srinivasan 5215, Dennis F. Thompson 1426, Richard Tuck 1704, and Daniel F. Ziblatt 4641



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.

***Government 3001 (formerly *Government 3001). Approaches to the Study of Politics - (New Course)**

Catalog Number: 21415 Enrollment: Limited to and required of first year department graduate students.

Daniel P. Carpenter and members of the Department

Half course (fall term). Th., 2–4.

Graduate Seminar designed to introduce research questions and frontiers across political science.

***Government 3100. Safra Graduate Fellowship Seminar - (New Course)**

Catalog Number: 40555 Enrollment: Limited to graduate fellows of the Safra Center only.

Eric Beerbohm 5558

Full course (indivisible). Hours to be arranged.

This seminar examines how moral and political theories should be brought to bear on institutional and policymaking choices. Special attention will be given to the relation between ideal and nonideal theory.

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

Stephen Daniel Ansolabehere 6377, Ryan Enos 6825, and Claudine Gay 5485

Full course (indivisible). Th., 2–4. EXAM GROUP: Spring: 16, 17

A forum for the presentation and discussion of research in progress by graduate students (second year and above), faculty, and visiting scholars. Anyone working on contemporary American politics or on US political development welcome. Occasional presentations by invited speakers.

***Government 3005 (formerly *Government 3005b). Research Workshop in International Relations**

Catalog Number: 1016

Dustin Tingley 6836

Full course (indivisible). Hours to be arranged.

Research workshop for advanced graduate students working on dissertation proposals in international relations.



***Government 3006. Research Workshop in Comparative Politics**

Catalog Number: 0910

Nahomi Ichino 5316 and Prerna Singh 6311

Full course. W., 4–6. EXAM GROUP: Spring: 9

The workshop offers advanced graduate students an opportunity to present their work-in-progress, benefit from critiques of it, and discuss theoretical and methodological issues.

Note: Doctoral students from other departments and faculties admitted if space permits.

***Government 3007. Research Workshop in Political Economy**

Catalog Number: 0968

Michael J. Hiscox 4104 and Torben Iversen 1250

Full course (indivisible). M., 12–2.

Intended for graduate students in the third year and above, this course welcomes scholarship of all types and on all aspects of political economy. Intended to provide a venue in which to develop and to debate work in progress.

***Government 3008. Research Workshop in Political Theory**

Catalog Number: 1704

Eric M. Nelson 5345 and Michael E. Rosen 5610

Full course (indivisible). W., 12–2.

***Government 3009. Research Workshop in Applied Statistics**

Catalog Number: 8142

Alberto Abadie (Kennedy School) 5277, Lee Fleming (Business School) 3839, Adam Glynn 5600, Guido W. Imbens 2671 (on leave spring term), Gary King 1723, James M. Robins (Public Health) 1492, Donald B. Rubin 7966, Arthur P. Spirling 6062, Tyler J. VanderWeele (Public Health) 6574, and Christopher Winship 3189

Full course (indivisible). W., 12–2.

A forum for graduate students, faculty, and visiting scholars to present and discuss work in progress. Features a tour of Harvard's statistical innovations and applications with weekly stops in different disciplines. Occasional presentations by invited speakers.

Health Policy

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Committee on the Doctor of Philosophy in Health Policy



Joseph P. Newhouse, John D. MacArthur Professor of Health Policy and Management (*Kennedy School, Medical School, Public Health*) (*Chair*)
 John Zaven Ayanian, Professor of Health Care Policy (*Public Health*)
 Katherine Baicker, Professor of Health Economics (*Public Health*)
 Robert J. Blendon, Professor of Health Policy and Political Analysis (*Public Health, Kennedy School*)
 David E. Bloom, Clarence James Gamble Professor of Economics and Demography (*Public Health*)
 Daniel P. Carpenter, Allie S. Freed Professor of Government
 Amitabh Chandra, Professor of Public Policy (*Kennedy School*)
 Michael Chernew, Professor of Health Care Policy (*Medical School*)
 Nicholas A. Christakis, Professor of Sociology (*Medical School*)
 I. Glenn Cohen, Assistant Professor of Law (*Law School*)
 David M. Cutler, Otto Eckstein Professor of Applied Economics
 Norman Daniels, Mary B. Saltonstall Professor of Population Ethics and Professor of Ethics and Population Health (*Public Health*)
 Amy C. Edmondson, Novartis Professor of Leadership and Management (*Business School*)
 Arnold M. Epstein, John H. Foster Professor of Health Policy and Management (*Public Health*)
 Majid Ezzati, Associate Professor of International Health (*Public Health*)
 Erica M. Field, John L. Loeb Associate Professor of the Social Sciences
 Richard G. Frank, Margaret T. Morris Professor of Health Care Policy (*Medical School*)
 Guy S. Gazelle, Professor in the Department of Health Policy and Management (*Public Health*)
 Susanne J. Goldie, Roger Irving Lee Professor of Public Health (*Public Health*)
 David C. Grabowski, Associate Professor of Health Care Policy (*Medical School*)
 James K. Hammitt, Professor of Economics and Decision Sciences (*Public Health*)
 Robert S. Huckman, Associate Professor (*Business School*)
 Haiden A. Huskamp, Associate Professor of Health Care Policy (*Medical School*)
 Guido W. Imbens, Professor of Economics (*on leave spring term*)
 Ashish Kumar Jha, Associate Professor of Health Policy and Management (*Medical School*)
 Nancy M. Kane, Professor of Management (*Public Health*)
 Jane Jooyun Kim, Assistant Professor of Health Decision Science (*Public Health*)
 Gary King, Albert J. Weatherhead III University Professor
 Michael R. Kremer, Gates Professor of Developing Societies (*on leave fall term*)
 Bruce E. Landon, Associate Professor of Health Care Policy (*Medical School*)
 Jennifer Lerner, Professor of Public Policy and Management (*Kennedy School*)
 Peter V. Marsden, Edith and Benjamin Geisinger Professor of Sociology, Harvard College Professor, Dean of Social Science
 Marie C. McCormick, Sumner and Esther Feldberg Professor of Maternal and Child Health (*Public Health*)
 Thomas G. McGuire, Professor of Health Economics in the Department of Health Care Policy (*Medical School*)
 Barbara J. McNeil, Ridley Watts Professor of Health Care Policy (*Medical School*)
 John Michael McWilliams, Assistant Professor of Health Care Policy (*Medical School*)
 Michelle M. Mello, Professor of Law and Public Health (*Public Health*)
 Carl N. Morris, Professor of Statistics
 Sharon-Lise T. Normand, Professor in the Department of Biostatistics (*Public Health*)



Gary Pisano, Harry E Figgie Jr Professor of Business Administration (*Business School*)
 Meredith B. Rosenthal, Associate Professor of Health Economics and Policy (*Public Health*)
 Donald B. Rubin, John L. Loeb Professor of Statistics
 Joshua A. Salomon, Associate Professor of International Health (*Public Health*)
 Sara Jean Singer, Assistant Professor of Health Care Management and Policy (*Public Health*)
 Stephen B. Soumerai, Professor of Population Medicine (*Medical School*)
 David G. Stevenson, Assistant Professor of Health Policy in the Department of Health Care Policy (*Medical School*)
 B. Katherine Swartz, Professor of Health Policy and Economics (*Public Health*)
 Milton C. Weinstein, Henry J Kaiser Professor of Health Policy and Management and Biostatistics (*Medical School, Public Health*)
 Alan M. Zaslavsky, Professor of Health Care Policy (Statistics) (*Medical School*)
 Richard J. Zeckhauser, Frank Plumpton Ramsey Professor of Political Economy in the John F Kennedy School of Government (*Kennedy School*)

Other Faculty Offering Instruction in Health Policy

Allan M. Brandt, Amalie Moses Kass Professor of the History of Medicine in the Faculty of Medicine, and Professor of the History of Science in the Faculty of Arts and Sciences, Dean of the Graduate School of Arts and Sciences

Graduate Program in Health Policy

The PhD in Health Policy, awarded by the Faculty of Arts and Sciences, draws upon the resources of six Harvard faculties: the Faculty of Arts and Sciences, Harvard School of Public Health, Harvard Medical School, Harvard Kennedy School, Harvard Law School, and Harvard Business School. This degree is intended primarily for students seeking teaching careers in institutes of higher learning and/or research careers in policy.

Students in the PhD Program in Health Policy choose a concentration and meet specific curriculum requirements in one of seven disciplines: decision sciences, economics, ethics, evaluative science and statistics, management, medical sociology, or political analysis. In addition to choosing a concentration, students specialize in one of five areas of policy interest: environmental health, health care services, international health, mental health, or public health.

Decision Sciences (Professor Milton C. Weinstein, Chair). Decision sciences are the collection of quantitative techniques that are used for decision making at the individual and collective level. They include decision analysis, risk analysis, cost-benefit and cost-effectiveness analysis, decision modeling, and behavioral decision theory, as well as parts of operations research, microeconomics, statistical inference, management control, cognitive and social psychology, and computer science. 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 international, federal, state, and



local governments and actors as their actions affect health and medical care. In addition to examining the literature on health economics, the training emphasizes microeconomic theory, econometrics, and interactions with other disciplines, including clinical medicine. The concentration prepares students for research and teaching careers as health economists.

Ethics (Professor Norman Daniels, Chair). The ethics concentration integrates quantitative, qualitative, and normative approaches to the analysis of ethical issues in health policy and clinical practice. Increasingly, the investigation of ethical issues in medicine and health policy has not only drawn on normative ethics and political philosophy, but has included empirical research concerning attitudes and practices in clinical and broader institutional settings. A grasp of normative theories and tools is important because ethical principles and approaches underlie, explicitly or implicitly, the formulation of particular health policies at both the macro and micro level. Students in this track will focus on developing skills in a range of disciplines, with the goal of evaluating how ethical and socio-cultural values shape - and should shape - health policies as well as clinical and public health practices.

Evaluative Science and Statistics (Professor B. Stephen Soumerai and Professor Alan M. Zaslavsky, Co-Chairs). Training in this concentration will enable students to study the effects of a wide range of policies and health services (e.g., health insurance, health-care quality improvement, clinical decision-making, drug policy, cost-containment, and socioeconomic factors) on behaviors, access, processes and quality of health care, health outcomes, or costs. Students in this concentration will develop proficiency in experimental and quasi-experimental research design, statistics, relevant social sciences, and other methodological approaches (e.g., epidemiology, program evaluation, qualitative methods, and survey design).

Management (Professor Amy C. Edmondson and Associate Professor Robert S. Huckman, Co-Chairs). The management concentration prepares students to do research on the organizational, managerial, and strategic issues facing health care providers, payers, and other players in the health care market. Students in this track will learn how theories and concepts from fields such as technology and operations management, organizational behavior, organizational economics, and competitive strategy can be applied to - and further developed for understanding - health care organizations.

Medical Sociology (Professor Nicholas A. Christakis, Chair). In this concentration, students will learn about, and contribute to knowledge in, several research areas that are extremely important to health policy, including the study of professions and professional behavior, the structure of health care organizations and systems, the impact of organizational and professional change on the structure of medical work, organizational improvement programs and their evaluation, the diffusion of innovations across providers and organizations, and the behavior of patients and consumers - including consumer evaluations of health care quality and patient perspectives on the process and outcomes of care.

Political Analysis (Professor Robert J. Blendon, Chair). This concentration is intended for students who wish to do research on the relationship between politics and health policy. Students will study theories of individual opinion formation, voting behavior, legislative organization, and interest group formation. In addition, students will examine the role of public opinion, interest



groups, the media, and institutions in 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.

Applications: Prospective students should visit the Graduate School of Arts and Sciences website at www.gsas.harvard.edu to apply online. Important additional information on financial aid and other aspects of the PhD Program in Health Policy is available from Deborah Whitney, Director, PhD Program in Health Policy (deborah.whitney@harvard.edu) and Ayres Heller, Assistant Director, PhD Program in Health Policy (ayres.heller@harvard.edu). Website: www.healthpolicy.fas.harvard.edu.

Health Policy Courses

Health Policy 2000. Core Course in Health Policy

Catalog Number: 4522

Fall: Joseph P. Newhouse (Kennedy School, Medical School, Public Health) and Alan M. Zaslavsky (Medical School); Spring: David M. Cutler and Alan M. Zaslavsky (Medical School)
Full course (indivisible). Tu., Th., 4–6. EXAM GROUP: 18

Topics include the financing and organization of health care, public health, political analysis, medical manpower, health law and ethics, technology assessment, prevention, mental health, long-term care, and quality of care.

Note: Required for doctoral candidates in Health Policy and open to others by permission of instructor. Offered jointly with the Kennedy School as HCP-597 and HCP-598 and with the School of Public Health as HPM 246.

***Health Policy 3000. Doctoral Dissertation Research**

Catalog Number: 8422

Members of the Committee

Dissertation research.

***Health Policy 3002. Graduate Reading Course: Mental Health Policy**

Catalog Number: 3528

Haiden A. Huskamp (Medical School) 3891

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

Participants discuss research on the politics surrounding mental health policy and examine how to apply existing work and methodological approaches to their own work.

Note: Offered in alternate years.

***Health Policy 3010. First-Year Graduate Reading Course: Ethics**

Catalog Number: 9241

Norman Daniels (Public Health) 4722

Examines issues in ethics and health policy, including a basic account of justice and health; ethical critique of maximization methodologies, including cost-effectiveness analysis; individual and social responsibility for health; and other topics.



***Health Policy 3015. Second-Year Graduate Reading Course: Ethics**

Catalog Number: 4380

Norman Daniels (Public Health) 4722

Student-led course reviews basic issues in ethics, political philosophy, and their bearing on health policy and is important preparation for the qualifying examinations.

***Health Policy 3020. Graduate Reading Course: Political Analysis**

Catalog Number: 3781

Robert J. Blendon (Public Health, Kennedy School) 2712

Participants present their own ongoing research on the politics surrounding health policy and discuss recent research drawn from various methodological approaches. Graduate students, faculty, and visiting scholars are welcome to present research at all stages.

Note: Offered in alternate years.

***Health Policy 3030. Graduate Reading Course: Medical Sociology**

Catalog Number: 1826

Thomas G. McGuire (Medical School) 4723

***Health Policy 3040hf. Research Seminar in Health Policy**

Catalog Number: 8870

B. Katherine Swartz (Public Health) 2461

Half course (throughout the year). Hours to be arranged.

***Health Policy 3060. Graduate Reading Course: Decision Sciences**

Catalog Number: 2133

Milton C. Weinstein (Medical School, Public Health) 3043

***Health Policy 3070. Graduate Reading Course: Economics**

Catalog Number: 7439

Joseph P. Newhouse (Kennedy School, Medical School, Public Health) 2425

***Health Policy 3080. Graduate Reading Course: Evaluative Science and Statistics**

Catalog Number: 9516

Stephen B. Soumerai (Medical School) 1906 and Alan M. Zaslavsky (Medical School) 1927

***Health Policy 3090. Graduate Reading Course: Management**

Catalog Number: 2492

Amy C. Edmondson (Business School) 4613 and Robert S. Huckman (Business School) 5234

Courses of Interest

[Economics 2458. Topics in Health Economics]

[Economics 2460. Health Economics Workshop](#)

[Economics 2465. Health Economics](#)

***Economics 3460c (formerly *Economics 3460chf). Research in Health Economics**

[Empirical and Mathematical Reasoning 20 \(formerly Quantitative Reasoning 24\). The](#)



[Business and Politics of Health](#)
[United States in the World 11. American Health Care Policy](#)

History

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Department of History

James T. Kloppenberg, Charles Warren Professor of American History (*Chair*)
Emmanuel K. Akyeampong, Professor of History and of African and African American Studies
David R. Armitage, Lloyd C. Blankfein Professor of History (*on leave 2010-11*)
Sven Beckert, Laird Bell Professor of History
David Blackbourn, Coolidge Professor of History (*on leave fall term*)
Ann M. Blair, Henry Charles Lea Professor of History, Harvard College Professor (*on leave spring term*)
Felix A. Boecking, Lecturer on History
Sugata Bose, Gardiner Professor of Oceanic History and Affairs
Vincent Brown, Dunwalke Associate Professor of American History (*on leave 2010-11*)
Joyce E. Chaplin, James Duncan Phillips Professor of Early American History (*on leave 2010-11*)
Lizabeth Cohen, Howard Mumford Jones Professor of American Studies (*on leave 2010-11*)
Nancy F. Cott, Jonathan Trumbull Professor of American History
Robert Darnton, Carl H. Pforzheimer University Professor
Emma Dench, Professor of the Classics and of History, Harvard College Professor
Caroline M. Elkins, Professor of History
Drew Gilpin Faust, Lincoln Professor of History, President of Harvard University
Niall Ferguson, Laurence A. Tisch Professor of History and Professor of Business Administration (*on leave 2010-11*)
Brett Flehinger, Lecturer on History
Raphael B. Folsom, Visiting Assistant Professor of History
Alison F. Frank, John L. Loeb Associate Professor of the Social Sciences (*on leave 2010-11*)
Ivan Gaskell, Senior Lecturer on History
Andrew Gordon, Lee and Juliet Folger Fund Professor of History (*on leave fall term*)
Peter E. Gordon, Professor of History, Harvard College Professor
James Hankins, Professor of History
Henrietta Harrison, Professor of History (*on leave 2010-11*)
Evelyn Brooks Higginbotham, Victor S. Thomas Professor of History and of African and African American Studies (*on leave 2010-11*)



Patrice Higonnet, Robert Walton Goelet Professor of French History (*on leave spring term*)
 Maya Jasanoff, John L. Loeb Associate Professor of the Social Sciences, Professor of History
 Andrew Jewett, Assistant Professor of History and of Social Studies
 Walter Johnson, Winthrop Professor of History and Professor of African and African American Studies (*on leave 2010-11*)
 Cemal Kafadar, Vehbi Koc Professor of Turkish Studies
 Brendan Jeffrey Karch, College Fellow in the Department of History
 Lili M. Kim, Visiting Associate Professor of History
 William C. Kirby, T. M. Chang Professor of China Studies and Spangler Family Professor of Business Administration (*on leave 2010-11*)
 Mark A. Kishlansky, Frank B. Baird, Jr. Professor of History
 Jill M. Lepore, David Woods Kemper '41 Professor of American History (*on leave 2010-11*)
 Mary D. Lewis, Professor of History
 Charles S. Maier, Leverett Saltonstall Professor of History (*on leave spring term*)
 Erez Manela, Professor of History (*Director of Graduate Studies*)
 Terry D. Martin, George F. Baker III Professor of Russian Studies
 Michael McCormick, Francis Goelet Professor of Medieval History
 Lisa M. McGirr, Professor of History
 Ian J. Miller, Assistant Professor of History
 Roy Mottahedeh, Gurney Professor of History (*on leave fall term*)
 Afsaneh Najmabadi, Francis Lee Higginson Professor of History and Professor of the Studies of Women, Gender, and Sexuality
 Emer Sinead O'Dwyer, Lecturer on History
 Kelly A. O'Neill-Uzgis, Assistant Professor of History (*on leave 2010-11*)
 E. Roger Owen, A. J. Meyer Professor of Middle East History (*on leave spring term*)
 Steven Ozment, McLean Professor of Ancient and Modern History
 Serhii Plokhii, Mykhailo S. Hrushevs'kyi Professor of Ukrainian History
 Emma Rothschild, Jeremy and Jane Knowles Professor of History
 Ethelia Ruiz, Visiting Professor of History
 Sergio Silva-Castaneda, Lecturer on History and on Social Studies
 Daniel L. Smail, Professor of History (*Director of Undergraduate Studies*)
 David Smith, Visiting Assistant Professor of History (*Wilfrid Laurier University*)
 Rachel St. John, Associate Professor of History (*on leave 2010-11*)
 Sita Steckel, Lecturer on History
 Hue-Tam Ho Tai, Kenneth T. Young Professor of Sino-Vietnamese History
 Eren Murat Tasar, Lecturer on History
 Trygve Van Regenmorter Throntveit, Lecturer on History
 Laurel Thatcher Ulrich, 300th Anniversary University Professor
 Ann Marie Wilson, Lecturer on History

Other Faculty Offering Instruction in the Department of History

Asad A. Ahmed, Assistant Professor of Anthropology
 Bernard Bailyn, Adams University Professor, Emeritus and James Duncan Phillips Professor of Early American History, Emeritus
 Mario Biagioli, Professor of the History of Science (*on leave fall term*)



Thomas N. Bisson, Henry Charles Lea Professor of Medieval History, Emeritus
 Peter K. Bol, Charles H. Carswell Professor of East Asian Languages and Civilizations (*on leave 2010-11*)
 John H. Coatsworth, Monroe Gutman Professor of Latin American Affairs, Emeritus
 Shaye J.d. Cohen, Nathan Littauer Professor of Hebrew Literature and Philosophy
 Kathleen M. Coleman, James Loeb Professor of the Classics
 Albert M. Craig, Harvard-Yenching Professor of History, Emeritus
 Christine Desan, Professor of Law (*Law School*)
 Charles Donahue, Jr., Paul A. Freund Professor of Law (*Law School*)
 Carter J. Eckert, Yoon Se Young Professor of Korean History
 Mark C. Elliott, Mark Schwartz Professor of Chinese and Inner Asian History
 Francis Fiorenza, Charles Chauncey Stillman Professor of Roman Catholic Theological Studies (*Divinity School*)
 Annette Gordon-Reed, Professor of La (*Law School*)
 Rachel L. Greenblatt, Assistant Professor of Near Eastern Languages and Civilizations
 Peter A. Hall, Krupp Foundation Professor of European Studies (*on leave fall term*)
 David Neil Hempton, Alonzo L. McDonald Family Professor of Evangelical Theological Studies (*Divinity School*)
 Morton J. Horwitz, Charles Warren Professor of American Legal History (*Law School*)
 David Howell, Professor of Japanese History
 Akira Iriye, Charles Warren Professor of American History, Emeritus
 Christopher P. Jones, George Martin Lane Professor of the Classics and of History, Emeritus
 Edward L. Keenan, Andrew W. Mellon Professor of History, Emeritus
 Alexander Keyssar, Matthew W. Stirling, Jr. Professor of History and Social Policy at the Kennedy School of Gov't (*Kennedy School*)
 Sun Joo Kim, Harvard-Yenching Professor of Korean History (*on leave 2010-11*)
 Arthur Kleinman, Esther and Sidney Rabb Professor of Anthropology in the Faculty of Arts and Sciences and Professor of Medical Anthropology in the Faculty of Medicine
 Philip A. Kuhn, Francis Lee Higginson Professor of History and of East Asian Languages and Civilizations, Emeritus
 Richard Pipes, Frank B Baird, Jr Professor of History, Emeritus
 Leah Price, Professor of English, Harvard College Professor
 Michael J. Puett, Professor of Chinese History
 Julie A. Reuben, Professor of Education (*Education School*)
 Bernard Septimus, Jacob E. Safra Professor of Jewish History and Sephardic Civilization
 Michael A. Szonyi, Professor of Chinese History
 Roman Szporluk, Mykhailo S. Hrushevs'kyi Professor of Ukrainian History, Emeritus
 Stephan Thernstrom, Winthrop Professor of History, Emeritus
 John Womack, Jr., Robert Woods Bliss Professor of Latin-American History and Economics, Emeritus

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

Daniel L. Smail and members of the Department

Half course (fall term; repeated spring term). Spring: W., at 11.

Limited to juniors and seniors. Students wishing to enroll must petition the DUS for approval, stating the proposed project, and must have the consent of the proposed instructor. Ordinarily, students are required to have taken some course work as background for their project.

Tutorials in History

***History 97. Sophomore Tutorial**

Catalog Number: 4469

Mark A. Kishlansky, Lisa M. McGirr, and Serhii Plokhii

Half course (spring term). Hours to be arranged. EXAM GROUP: 16, 17

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 spring term of their sophomore year, as well as students pursuing a secondary field in History.

***History 99. Senior Thesis Tutorial**

Catalog Number: 5803

Trygve Van Regenmorter Throntveit

Full course. Hours to be arranged.

Research and writing the senior thesis in History.

Note: Required of, and ordinarily limited to, seniors completing the History concentration's thesis program. Permission must be obtained from the Tutorial Office.

Reading Seminars

Required for History concentrators; open to non-concentrators as well. Graduate students may enroll with the instructor's permission.

Primarily for Undergraduates

***History 70c. Topics in Natural History**

Catalog Number: 9332 Enrollment: Limited to 12.

Daniel L. Smail 5343

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

A reading seminar focused on literature relevant for a natural history of humankind from several million years ago to the present. Topics will include population diasporas; long-distance exchange; coevolution; family, sex, and marriage; food; communication; goods and things; technology; human contact with ecosystems; status; demography and scale; and cognitive studies. The course will introduce students to the rapidly growing field of big history or deep history.



[*History 70f. Rule in Classical Antiquity]

Catalog Number: 96843 Enrollment: Limited to 12.

Emma Dench 5243

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

An exploration of the ways in which political power was modeled in classical antiquity, with close attention to the most dynamic recent discussions within modern scholarship. Particular focus on the language, ideology and cultural expressions of tyranny, monarchy, democracy, the 'balanced' constitution of the Roman Republic, and imperial rule, and on the ways in which power was negotiated between rulers and ruled.

Note: Expected to be given in 2012–13.

***History 70h. History and Memory - (New Course)**

Catalog Number: 98454 Enrollment: Limited to 12.

Rachel L. Greenblatt 5537

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

Explores the interactions of "memory" and historical writing, reading both theoretical writings on collective memory (e.g. Halbwachs, Nora, Yerushalmi and some of their critics) and more practical examples of the historical study of communal memory drawn from different periods and geographical regions. Please note that in contrast to many reading seminars, this course introduces you not to a particular swath of history, but rather to a set of questions raised in various contexts.

***History 71b (formerly *History 1942). The European Renaissance and Reformation, 1350-1650**

Catalog Number: 6819 Enrollment: Limited to 12.

Steven Ozment

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

A structured introduction to European Renaissance and Reformation Europe. Both classic and recent studies will be read and discussed. Attention is given to a variety of European lands and cultures. Recommended to undergraduates from all fields of study.

Note: This course is open to first and second year graduate students.

***History 71d. Race and Ethnicity in the British Atlantic World: 1570-1772 - (New Course)**

Catalog Number: 85261 Enrollment: Limited to 12.

David Smith (Wilfrid Laurier University) 5904

Half course (spring term). Th., 3–5. EXAM GROUP: 18

Tracing the rise of the first British Empire, this course examines early modern English conceptions of race and ethnicity. Traveler's accounts, the representations of non-Europeans on stage, and English colonial encounters with native peoples are some of the major sources investigated. Students are invited to assess early modern ideas of race and their influence on English imperial and commercial activity in the Atlantic world, the development of unfree and slave labor regimes, and Anglo-American ideas of liberty.

[*History 72a (formerly *History 1425). The Rise of the British Empire, 1757-1857]

Catalog Number: 8040 Enrollment: Limited to 12.

Maya Jasanoff 5877



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

Examines the expansion of the British Empire from the Seven Years War to the Indian Mutiny-Rebellion. Large themes of resistance, cross-cultural relations, and government practice will be considered together with specific episodes such as the Hastings trial and challenges to British rule in South Asia, the American Revolution, the settlement of Australia, and the abolition of slavery. Readings divided between primary and secondary sources, with emphasis on imperial controversies past and present.

Note: Expected to be given in 2011–12.

[*History 72c (formerly *History 1460). French History through French Literature]

Catalog Number: 5038 Enrollment: Limited to 12.

Patrice Higonet 2730 (on leave spring term)

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

Examines 19th century French history through some of the masterpieces of the post-revolutionary French tradition. The emphasis will be on the definitions of individualism (male and female) in an age of revolution and high capitalism. Readings will include Montesquieu, Voltaire, Diderot, Constant, Balzac, Stendhal, Sand, Baudelaire, Flaubert, and Zola, as well as corresponding texts on the history of the period such as Marx and Walter Benjamin.

Note: Expected to be given in 2011–12.

[*History 72e. The Life and Reign of Catherine the Great]

Catalog Number: 9664 Enrollment: Limited to 12.

Kelly A. O'Neill-Uzgiris 5881 (on leave 2010-11)

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

Examines the private and public worlds of one of Russia's most famous rulers. Introduces students to the numerous images of Catherine and debates about her reign that have emerged in two hundred years of historical writing. Topics include gender and authority, the reception of the Enlightenment, architecture and urban planning, state ideology, literary activity, and religious policy.

Note: Expected to be given in 2011–12.

[*History 72f (formerly *History 1529). East European Identities: Russia and Ukraine]

Catalog Number: 6477 Enrollment: Limited to 12.

Serhii Plokhii 4454

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

Discusses the formation of modern national identities in the Slavic world, and traces the development of competing imperial and national projects from the Napoleonic Wars to the collapse of the Soviet Union and the rise of independent successor states. Examines the reflection of growing national awareness in Russian and Ukrainian political writings, historiography, literature, and culture, as well as the role of multiple "others" in the formation of modern East Slavic identities.

Note: Expected to be given in 2012–13.

[*History 72g (formerly *History 1491). Religion and Popular Culture in 19th-Century Europe]

Catalog Number: 6681 Enrollment: Limited to 12.



David Blackburn 3203 (on leave fall term)

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

Explores the relationship between social and political change and popular religious practice from the French Revolution to World War I. Considers methodological problems in the study of religion and popular culture; religious revivals and popular politics; pilgrimages and prophetic movements; the relationships between class, gender, and religious culture; the feminization of religion, and the origins and resistance to the secularization of state and society. Readings include primary documents and secondary texts.

Note: Expected to be given in 2012–13.

[*History 72h (formerly History 1468). The Histories of France and the United States Compared]

Catalog Number: 9325 Enrollment: Limited to 12.

Patrice Higonnet 2730 (on leave spring term)

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

Will compare the historical experience of France and the United States from the late 18th to the 20th century. The issues at stake will be the formation of national consciousness, revolution, and democratization, the development of industrial capitalism, immigration, imperialism, and war.

Note: Expected to be given in 2011–12.

[*History 72i. Cities and the Making of Modern Russia]

Catalog Number: 35624 Enrollment: Limited to 12.

Kelly A. O'Neill-Uzgiris 5881 (on leave 2010-11)

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

Introduces students to how historians think and write about the modernization of Russia in the 19th and 20th centuries by examining the history of urban landscapes. Explores the ways in which the built environment shaped social and cultural life. Topics include the rise of mass entertainment, politics of architecture, crime and disorder, infrastructure of public health, technology and the natural environment, urban spaces and nation-building.

Note: Expected to be given in 2011–12.

***History 72j. Ethnic Cleansing and the Making of Nation-States - (New Course)**

Catalog Number: 63367 Enrollment: Limited to 12.

Brendan Jeffrey Karch 6552

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

Comparative analysis of twentieth-century measures to achieve territorial ethnic homogeneity through mass murder and resettlement. Explores the causes, methods, perpetrators, victims, and memories of ethnic cleansings as well as issues in historical writing and interpretation. Case studies include the Armenian genocide; East Central Europe during and after World War II; the partition of India; the Wars of Yugoslav Succession; and Rwanda.

Note: This course, when taken for a letter grade, meets the Core area requirement for Historical Study A.

[*History 73a (formerly History 1474). Republics and Republicanism]

Catalog Number: 2494 Enrollment: Limited to 12.

James Hankins 1239 and Eric M. Nelson 5345



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

Surveys the history of republican political theory from antiquity to the modern era. Themes to be discussed include: the relationship between republicanism and liberalism; the roots of republicanism in Greek and Roman political thought; Italian civic humanism; and the ideological origins of the English and American Revolutions. Readings will be drawn from Aristotle, Cicero, Machiavelli, More, Montesquieu, the Federalist Papers, Tocqueville, and others.

Note: Expected to be given in 2011–12.

***History 73b. (formerly History 90d). Introduction to Intellectual History**

Catalog Number: 1881 Enrollment: Limited to 12.

James T. Kloppenberg 3157

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

Introduction to major themes, periods and authors in intellectual history, in the West and beyond, and to a variety of approaches to the field. Students will be guided through the stages of writing an essay on a topic of their choice. Designed for current and future history concentrators and open to those with similar interests, with instructor's consent.

[*History 74a (formerly *History 1612). African Diaspora in the Americas]

Catalog Number: 9564 Enrollment: Limited to 12.

Vincent Brown 4638 (on leave 2010-11)

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

How can we best understand the diverse cultural practices of black people in the Americas, from where did those practices derive, and how are they related to each other? We explore a history of attempts to answer those questions, and examine ways that interpretations of the “African diaspora” have been conceived by scholars to better appreciate the complex histories of African-American cultural practices.

Note: Expected to be given in 2011–12.

[*History 74c. Bodily Functions: Histories of Bare Life and Bio-Power]

Catalog Number: 1090 Enrollment: Limited to 12.

Walter Johnson 5616 (on leave 2010-11)

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

This course will expose students to challenging and influential scholarship on the history of human being. The reading combines an emphasis on social theory - Marxism, Cultural Anthropology, Post-modernism, Feminism, etc. - and on historical topics of central importance - the history of the senses, labor, torture, starvation, racism, colonialism, sexuality, etc. The class will meet once a week for two hours.

Note: Expected to be given in 2011–12. Students will be required to write weekly papers of one to three pages summarizing their response to the assigned reading, and to write a final paper of approximately fifteen pages on a historiographical issue of their own choosing.

[*History 74e. North American Borderlands History]

Catalog Number: 7623 Enrollment: Limited to 12.

Rachel St. John 5328 (on leave 2010-11)

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

This reading seminar will explore the major themes and historiographical approaches to the



study of North American borderlands history. Drawing on scholarship from across the continent, we will study the interactions of peoples, nations, and empires on the boundaries of Mexico, the United States, and Canada. Course topics include: imperial claims and competition, Native peoples' responses to conquest, state and nation-building, settlement and economic integration, and conflict and cooperation between different racial and ethnic groups.

Note: Expected to be given in 2011–12.

[*History 74f. U.S. Environmental History]

Catalog Number: 9078 Enrollment: Limited to 20.

Rachel St. John 5328 (on leave 2010-11) and Joyce E. Chaplin 1058 (on leave 2010-11)

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

This reading seminar will explore the major themes and debates in U.S. environmental history. The course will introduce students to the study of the historical relationships between people and the natural environment and chart how the field has evolved over the past forty years. Beginning with Europeans' arrival in North America and continuing to the present, we will study how people have used, transformed, and thought about nature and how their environments shaped their experience.

Note: Expected to be given in 2011–12.

***History 74l. The New Deal and American Liberalism - (New Course)**

Catalog Number: 86716 Enrollment: Limited to 12.

Brett Flehinger 1830

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

This course studies the responses to the Great Depression that formed the New Deal. Particular attention will be paid to the connection of between policy development and the rise of American Liberalism. Major topics include Social Security, economic redistribution, Keynesianism, social planning, regulatory reform, conservative critiques of the New Deal and others.

***History 74m. Rebels, Radicals, and Reformers in Nineteenth-Century America - (New Course)**

Catalog Number: 72273 Enrollment: Limited to 12.

Ann Marie Wilson 6576

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

This seminar explores the varied, fascinating, and often perplexing social reform movements that flourished in nineteenth-century America. From temperance and abolitionism, to labor radicalism and utopian socialism, to free love and women's rights, we will examine the ways historians have approached and evaluated the many strains of American dissent. Themes will include: class formation and "social control"; religious revivalism; slavery and emancipation; immigration; gender and sexuality; diets and bodies; and transnational influences on reform.

***History 74n. U.S. History: Major Themes in the Twentieth Century**

Catalog Number: 26718 Enrollment: Limited to 12.

Lisa M. McGirr 2543

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

The twentieth-century United States is a vibrant and flourishing field of historical study. The goal of this seminar is to introduce students to the central questions, problems and debates in the



history of the "American century." Students will learn how the literature of history has developed through reading both older and newer approaches. Readings focus on questions of politics, political culture, the state and social life. The course is both thematic and chronological (as well as necessarily selective). Students are expected to prepare well for seminar and to participate actively in discussion. Each class will begin with a brief introduction to the readings (no more than five minutes) by a member of the seminar. The idea here is for one student to take special responsibility for leading discussion, raising questions and problems posed by the reading.

[*History 74o. Colonial Lives]

Catalog Number: 87146 Enrollment: Limited to 12.

Laurel Thatcher Ulrich 1886

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

In the years between 1600-1820, thousands of otherwise obscure individuals seized the opportunity to tell their own stories-in pamphlets, petitions, spiritual autobiographies, captivity narratives, depositions, letters, interviews, and material objects of many kinds. This course explores these remarkable sources and recent works of scholarship based upon them. In the process it traces an unexpected history of colonialism as it reshaped Europe, Africa, and the Americas.

Note: Expected to be given in 2011-12.

***History 74s. Narratives in U.S. Immigration History - (New Course)**

Catalog Number: 82048 Enrollment: Limited to 12.

Lili M. Kim 6733

Half course (spring term). W., 2-4.

This reading seminar will explore different forms of narratives - scholarly historical work, memoirs, and fiction - interpreting American immigrant lives to examine critical historiographical issues in U.S. immigration history. Through reading seminal historical narratives along with award-winning novels/memoirs, we will investigate on-going construction of major issues in U.S. immigration history such as imperialism, acculturation, language, citizenship, biculturalism, displacement, family, cultural inheritance, community and empowerment, agency and resistance, as well as memory and identity formation.

***History 75c. Readings on Modern Latin American History**

Catalog Number: 45858 Enrollment: Limited to 12.

Sergio Silva-Castaneda 6292

Half course (fall term). M., 2-4. EXAM GROUP: 7, 8

This course serves as an introduction to Latin American historiography, covering the span between the 19th Century's processes of independence and the military dictatorships of the second half of the 20th Century. It includes readings on Argentina, Mexico, Peru, Colombia, Cuba, and Brazil. This course is not designed to provide an extensive review of Latin America; however, the readings have been selected to cover an ample spectrum of themes, sources, countries and historical periods.

***History 75d. The Making of the Spanish Empire, 1400-1600: A Reading Seminar on History and its Uses - (New Course)**

Catalog Number: 66941 Enrollment: Limited to 12.



Raphael B. Folsom 6868

Half course (spring term). W., 2–4. EXAM GROUP: 7, 8

This course examines the rise of the Spanish Empire from 1400 to 1600, a period that encompassed some of the pivotal events of the past thousand years: the conquest of Muslim Granada, the expulsion of the Jews from Spain, Columbus's voyages, and the conquest of the Aztec Empire, to name a few. We will examine these and other events through primary and secondary sources, and explore their impact through salient products of contemporary American culture.

***History 76a (formerly *History 1858). Japanese Imperialism**

Catalog Number: 6688 Enrollment: Limited to 12.

Ian J. Miller 5880

Half course (spring term). W., 2–4. EXAM GROUP: 7, 8

This course examines one of the most important, but least studied empires of the modern world. By the early 1940s the Japanese empire encompassed some 200 million subjects, stretching from the cold northern woods of Sakhalin Island to the tropical rain forests of the Indonesian Archipelago. Rather than treating Japanese imperialism as exceptional, we will use it to explore the nature of modern empire, asking how its study might reshape broader understandings of imperialism and its consequences.

[*History 76c (formerly *History 90g). Major Themes in World History: Colonialism, Imperialism, and Post-Colonialism]

Catalog Number: 0119 Enrollment: Limited to 12.

Hue-Tam Ho Tai 6079

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

A general introduction to theories of imperialism, nationalism, and post-colonialism. Case studies to include Asia and Africa. Will combine the study of theory with examination of particular anti-colonial and anti-imperialist movements.

Note: Expected to be given in 2011–12.

[*History 77a (formerly *History 1902). Alcohol in Sub-Saharan Africa, 1850 to the Present]

Catalog Number: 2765 Enrollment: Limited to 12.

Emmanuel K. Akyeampong 3421

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

Examines the uses and meanings of alcohol in precolonial and rural Africa, its place in European-African trading contacts, and its role in the process of colonization. The course ends with a review of alcohol in nationalist politics, the place of the alcohol industry in the economies of independent African states and addiction in contemporary Africa.

Note: Expected to be given in 2011–12.

[*History 78a (formerly *History 1874). The Middle East During the First Wave of Modern Globalization, 1870-1925]

Catalog Number: 2291 Enrollment: Limited to 12.

E. Roger Owen 1028 (on leave spring term)

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



Examines the place of the Middle East during the first wave of modern globalization including the role of formal and informal empire, government and greater economic integration. Explores different ways of writing such a history using case studies designed to illustrate different aspects of the various processes involved.

Note: Expected to be given in 2011–12.

[*History 79d. An Introduction to Global History]

Catalog Number: 8463 Enrollment: Limited to 12.

Joyce E. Chaplin 1058 (on leave 2010-11)

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

This seminar offers introductory readings on the topic of global history and gives students the opportunity for further, individualized reading. Discussion topics include: deep history and human genetics, ancient and modern forms of imperialism, commercial networks and consumerism, global biography, long-distance travel and communication (including the invention of the passport and the telegraph), definitions of international and transnational communities, modernity and mass culture, globalization, decolonization, the space age, and cyberworlds.

Note: Expected to be given in 2011–12.

[*History 79e. Commodities in International History]

Catalog Number: 17812 Enrollment: Limited to 12.

Alison F. Frank 5313 (on leave 2010-11)

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

Introduces students to international history through the study of commodities ranging from oil, coal, and cotton to potatoes, rum, coffee, and sugar. Showcases historical writings that transcend geographic, cultural, and political boundaries between East and West, North and South, Atlantic and Pacific as well as methodological boundaries between cultural, economic, business, and environmental history, the history of food, of technology, and of ideas.

Note: Expected to be given in 2011–12.

***History 79f. Empire and Nation in Russia and China**

Catalog Number: 54227 Enrollment: Limited to 12.

Terry D. Martin 2966 and Mark C. Elliott 3329

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

Examines comparatively how imperial rule functioned in the Eurasian empires of Russia and China, and how the imperial heritage affected the transition to national and communist state forms. Theories of empire and nationalism based on European paradigms will be interrogated. Topics will include discourses of empire, the production of imperial knowledge, ethnicity, the frontier, colonization, Communism and national self-determination, Russification and Sinicization, religion, gender, and language. All readings will be in English.

Note: This course, when taken for a letter grade, meets the Core area requirement for Historical Study A.

***History 79h. International History - (New Course)**

Catalog Number: 65281 Enrollment: Limited to 12.

Vernie Alison Oliveira 6581



Half course (fall term). M., 2–4. EXAM GROUP: 7, 8

Introduces students to major themes, ideas and developments in the modern history of international relations. Topics include imperialism, postcolonialism, the Cold War, and globalization.

Research Seminars

Required for History concentrators; open to non-concentrators as well. Concentrators planning to write a Senior Thesis must complete their Research Seminar requirement by the conclusion of the Junior year. Graduate students may enroll with the instructor's permission.

Primarily for Undergraduates

***History 80a (formerly *History 1051). Roman Imperialism**

Catalog Number: 0336 Enrollment: Limited to 15.

Emma Dench 5243

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

Whether regarded as a model for European empires or as a precursor of western colonialism and globalization, Roman imperial expansion has captured both popular and scholarly imaginations. We proceed thematically, analyzing a variety of textual and material evidence for the changing nature of Roman imperialism between the mid-Republican and early imperial periods, and its impact on the politics, culture, religion, and society of Roman and local communities alike.

[*History 80b (formerly *History 1122). Persons and Things in Medieval Europe]

Catalog Number: 9657 Enrollment: Limited to 15.

Daniel L. Smail 5343

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

This course will introduce students to innovative currents of research in medieval European history, focusing on the use of texts for the study of material culture. Through their own research in medieval sources (in translation), students will contribute to building a collective database of clothing fashions, luxurious objects, dowry goods, liturgical goods, weapons, color preferences, and many other components of medieval material culture. This database will serve as a major source and gateway for building an original research paper.

Note: Expected to be given in 2012–13. This course, when taken for a letter grade, meets the Core requirement for Historical Study B.

***History 80e. From Gaul to France: The History, Archaeology and Science of the Fall of the Roman Empire - (New Course)**

Catalog Number: 52674 Enrollment: Limited to 15.

Michael McCormick 2849

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

What was the fall of the Roman Empire like in Gaul? We will use archaeology, ancient texts in translation, Roman material culture (coins, ceramic), natural scientific data and computers to try to answer this question and discover how Gaul ended and France began between about 200 and 500 A.D. Reading knowledge of French or German will expand the fun but is not necessary.



[*History 81a (formerly *History 1309). History in Early Modern Europe]

Catalog Number: 6583 Enrollment: Limited to 15.

Ann M. Blair 2467 (on leave spring term)

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

This course will examine the cultural significance of history as a discipline and as practice in Europe from the Renaissance to the Enlightenment. We will consider the nature and purposes of different kinds of historical writing and the ways in which histories were read and used. Histories were written to justify disciplines, states and religions; at the same time historical research prompted the development of new scholarly methods and subdisciplines. Emphasis on reading from primary sources including Machiavelli, Guicciardini, Francis Bacon, Voltaire and Gibbon.

Note: Expected to be given in 2011–12.

[*History 81b. Book History]

Catalog Number: 0836 Enrollment: Limited to 15.

Ann M. Blair 2467 (on leave spring term)

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

This research seminar offers an introduction to methods of research in the history of the book and of reading. Assigned readings will include methodological articles and case studies in the field, focused especially on the handpress period (15th-18th centuries). Students will be guided through the stages of writing a major research paper and may write their paper on a time-place context of their choosing, with the consent of the instructor. Designed for concentrators in History and History and Literature; open to others with similar needs.

Note: Expected to be given in 2011–12.

***History 81c (formerly *History 1338). The English Revolution**

Catalog Number: 0296 Enrollment: Limited to 15.

Mark A. Kishlansky 2895

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

This course will fulfill the concentration requirement for a research course requiring the completion of an historical essay based on primary materials. It will explore the causes, course, and consequences of the English Revolution by focusing on selected topics covering the range of issues that dominated the period from the convening of the Lord Parliament to the execution of Charles I. Emphasis will be on research techniques and the use of seventeenth century sources.

[*History 81f (formerly History 1127). Women's Voices in Medieval and Early Modern Europe]

Catalog Number: 7597 Enrollment: Limited to 15.

Rachel L. Greenblatt 5537

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

Seeks out the voices of Jewish, Protestant and Catholic women, with an emphasis on women's writings, and examines methods for uncovering information about women's lives when their own voices are absent from the historical record. Considers ideal images and the daily realities of both men's and women's gendered roles in such areas as life-cycle rituals, livelihood and spirituality.

Note: Expected to be given in 2012–13.



***History 81h. English Law and Society, 1571-1788 - (New Course)**

Catalog Number: 77019 Enrollment: Limited to 15.

David Smith (Wilfrid Laurier University) 5904

Half course (spring term). F., 2–4. EXAM GROUP: 7, 8

This course explores English legal development from the sixteenth through to the late eighteenth century. Bookended by the careers of two leading English jurists, Sir Edward Coke and Lord Mansfield, this was a period of fundamental change in English law. Major topics include constitutional and religious transformation, the development of the criminal law, and colonial law. Students will also examine methodologies that integrate the study of law and society.

[*History 82b (formerly *History 1446). Fin-de-Siècle Vienna]

Catalog Number: 1471 Enrollment: Limited to 15.

Alison F. Frank 5313 (on leave 2010-11)

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

Explores the history of the political, social, and cultural center of the largest continental European Empire in modern history, and one of the birthplaces of European modernism. From the 1880s through WWI and into the early years of the Republic of Austria, the course examines not only Vienna's intellectual vitality, but also the social and ideological divisions underlying the human catastrophes of World War and genocide in the twentieth century.

Note: Expected to be given in 2011–12.

[*History 82c (formerly *History 1466). Vichy France in Comparative Perspective]

Catalog Number: 8154 Enrollment: Limited to 15.

Patrice Higonnet 2730 (on leave spring term)

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

First, we cover the background of the Vichy years and the legacy of 1789 and the First World War; military affairs; Vichy's social policy; Vichy, the Germans, and the Jews; Vichy and Free France; and the legacy of the Vichy years. In the second half of the course, we move on to compare occupied France to other occupied countries of Europe.

Note: Expected to be given in 2011–12. Students interested in this course should contact Professor Higonnet at higonnet@fas.harvard.edu. Films will be shown weekly.

***History 82d (formerly *History 1483). French Colonial Encounters: 1870's to Present**

Catalog Number: 0461 Enrollment: Limited to 15.

Mary D. Lewis 4369

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

Explores and compares three colonies in the French Empire: French West Africa, Algeria, and Indochina, considering how colonial rule was extended, how individuals responded, and what reverberations there were between colony and metropole.

Prerequisite: One language relevant to the regions studied (e.g. French, Arabic, Vietnamese, etc.) preferred but not required. An introduction to French history recommended.

[*History 82e (formerly *History 1490). Max Weber in His Time]

Catalog Number: 9550 Enrollment: Limited to 15.

David Blackbourn 3203 (on leave fall term)

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



We still read and reinterpret Max Weber's work on bureaucracy, charisma, and the links between religion and capitalism. This course places Weber (1864-1920) in his time, as a participant in contemporary German debates. Using his own scholarly and political writings, plus other biographical and historical materials, we examine Weber's strong views on subjects that include German political leadership, nationalism, imperialism, the rise of socialism, university reform, Polish immigrant labor, Catholic "backwardness", and World War I.

Note: Expected to be given in 2011–12.

***History 82f. The Origins of the Cold War: The Yalta Conference (1945)**

Catalog Number: 1959 Enrollment: Limited to 15.

Serhii Plokhii 4454

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

The Yalta Conference is analyzed in the context of the long-term geostrategic goals of the United States, the United Kingdom, and the USSR. Special attention is paid to psychological and cultural aspects of the negotiating process.

[*History 82g. The Black Sea World]

Catalog Number: 4664 Enrollment: Limited to 15.

Kelly A. O'Neill-Uzgiris 5881 (on leave 2010-11)

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

Located at the crossroads of crucial trade routes and imperial frontiers, the Black Sea has been the site of exploration, exchange, and often bloody competition for over a millennium. We will explore the social, cultural and economic relationships that linked inhabitants, as well as the cleavages that divided them over the course of the nineteenth century. Topics include commerce and trade, scientific exploration, military conflict, urbanization and the emergence of national narratives.

Note: Expected to be given in 2011–12.

[*History 82h (formerly *History 1532). Everyday Life in the Soviet Union]

Catalog Number: 2636 Enrollment: Limited to 15.

Terry D. Martin 2966

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

Analysis of everyday life in the USSR up to the death of Stalin through the use of first-person documentation: diaries, personal correspondence, autobiographies, and oral history. Topics include family, friendship, consumption, corruption, entertainment, housing, material goods, the emotions, the self, among others.

Note: Expected to be given in 2011–12.

[*History 82k (formerly History 1481). Nation, Empire and Immigration in Modern France]

Catalog Number: 5855 Enrollment: Limited to 15.

Mary D. Lewis 4369

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

Examines the challenges posed to French society by the principles that emerged from the French Revolution. Considers how abstract, "universal" ideas have been difficult to implement evenly across French society, and explores what historical circumstances have prevented particular



groups from enjoying the rights associated with these principles from 1789 to the present day.

Focuses on race and colonial status, religion, nationalism and immigration.

Note: Expected to be given in 2012–13.

Prerequisite: French strongly preferred but not required.

***History 82l (formerly History 2242r). The French Revolution**

Catalog Number: 1914 Enrollment: Limited to 15.

Patrice Higonnet 2730 (on leave spring term)

Half course (fall term). W., 2–4. EXAM GROUP: 7, 8

The history of Jacobinism during the French Revolution.

***History 83a (formerly *History 1411). The History of Economic Thought Since 1750**

Catalog Number: 5927 Enrollment: Limited to 15.

Emma Rothschild 5001

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

Examines the history of various kinds of economic thought, including 18th century laissez-faire political economy and late 19th century theories of economic and social reform. Will emphasize writings about long-distance or global connections, in different media from scientific theories to economic periodicals. Students will prepare individual research projects.

[*History 83b (formerly *History 1472). Historical Ontology]

Catalog Number: 6425 Enrollment: Limited to 15.

Peter E. Gordon 3907

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

This advanced seminar addresses the now-prevalent idea that reality is an historical construction, i.e., that what counts as objectivity or truth may depend upon conceptual schemes, discourses, or practices of world-making, such that the conditions for something being "an object" or being "true", in the natural or human sciences and in social experience, are subject to variation and structural transformation over time. Topics and authors include: Foucault, Heidegger, Latour, Sokal, Hacking, Poovey, Shapin, and Cervantes.

Note: Expected to be given in 2011–12.

Prerequisite: One of the following: Modern European Intellectual History, Social Studies 10, French Social Thought, American Social Thought, or any philosophy course in Metaphysics or Epistemology.

***History 83c. Care of the Soul**

Catalog Number: 8082 Enrollment: Limited to 15.

James Hankins 1239

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

The teachings of major philosophers in the Western tradition about how living a philosophical life can cure diseases of the soul and bring tranquility, harmony with nature, and a sense of moral worth.

[*History 83d (formerly *History 1479). Intellectuals and Auschwitz]

Catalog Number: 5579 Enrollment: Limited to 15.

Peter E. Gordon 3907



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

This seminar for advanced undergraduates investigates a variety of philosophical debates and intellectual controversies concerning National Socialism and the Holocaust; focusing on disputes as to the significance of the Holocaust for social theory, the philosophy of history, theories of empathy and historical as well as aesthetic representation. Authors include: Adorno, Agamben, Arendt, Celan, Derrida, Jaspers, Jonas, and Levi.

Note: Expected to be given in 2011–12.

Prerequisite: One course in Intellectual History, Social Studies 10, Political Theory or Philosophy.

***History 83f. Political Theology - (New Course)**

Catalog Number: 12099 Enrollment: Limited to 15.

Peter E. Gordon 3907

Half course (fall term). W., 2-4. EXAM GROUP: 7, 8

This advanced research seminar for undergraduates (and graduate students by permission) addresses the interrelation between religious ideas and political theory in the modern period. Readings by Schmitt, Strauss, Barth and Kantorowicz, alongside more recent theorists such as Assmann, Taubes, Badiou, and Agamben.

[*History 84a (formerly *History 1605). Early American Slave Revolts]

Catalog Number: 4218 Enrollment: Limited to 15.

Vincent Brown 4638 (on leave 2010-11)

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

Will analyze political dynamics of resistance and social control within the slave societies of the early Americas from the 17th to the early 19th centuries. Topics for consideration include maroon resistance, struggles over time, territory, status, and cultural practice within slavery, the organizing strategies of the enslaved, and competing visions of the future.

Note: Expected to be given in 2011–12.

[*History 84b. The American Revolution]

Catalog Number: 7369 Enrollment: Limited to 15.

Jill M. Lepore 4830 (on leave 2010-11)

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

This hands-on research seminar will take you out of the classroom and into the archives. An intensive study of the political, cultural, literary, and social history of the American Revolution, with an emphasis on Boston from the Writs of Assistance, in 1761 to the British evacuation of the city, in 1776. The class includes field trips to Boston and Cambridge historic sites, archives, museums, and graveyards.

Note: Expected to be given in 2012–13.

***History 84c (formerly *History 1610). Confronting Objects/Interpreting Culture: Interdisciplinary Perspectives on North America**

Catalog Number: 2479 Enrollment: Limited to 15.

Laurel Thatcher Ulrich 1886 and Ivan Gaskell 3174

Half course (fall term). Th., 2-4. EXAM GROUP: 16, 17

Working with museum collections as well as written documents, students will explore the



interplay between particular objects and larger historical themes, such as colonialism, nationalism, scientific and ethnographic exploration, or expanding commerce. Employing a range of scholarly tools, emphasizing visual and material analysis and including archival research, students will help prepare materials for an upcoming exhibit.

***History 84g (formerly *History 1656). Harvard and Slavery**

Catalog Number: 1778 Enrollment: Limited to 15.

Sven Beckert 2415

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

Will explore the links between Harvard and slavery during the first 229 years of the university's history. Students will write original research papers on various aspects of the history of Harvard University and slavery, including how resources extracted from slave labor benefited the university, the ways Harvard administrators and faculty supported or struggled against the institution of slavery, and what kinds of links the university built to slaveholders.

[*History 84i (formerly *History 1969). Secularization in Europe and the United States, c. 1780-2000]

Catalog Number: 6171 Enrollment: Limited to 15.

David Neil Hempton (Divinity School) 5974

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

Will examine the respective religious characteristics of two large and diverse areas from the age of revolution in the late eighteenth century to the present with special reference to secularization. Will address the complex issues at stake in the debates between those who make claims either for European or American exceptionalism.

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 2356.

[*History 84l (formerly History 1666). The World of William James and Henry James]

Catalog Number: 9674 Enrollment: Limited to 15.

James T. Kloppenberg 3157 and Jeanne A. Follansbee 4426

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

This course examines the writings of William James and Henry James in relation to each other and to transformations in American and European culture from the late nineteenth through the early twentieth centuries. Readings include *Portrait of a Lady*, *The Ambassadors*, and selected stories, prefaces, and essays by Henry James and selections from *The Principles of Psychology*, *The Varieties of Religious Experience*, *Pragmatism*, and selected essays by William James.

Note: Expected to be given in 2011–12.

[*History 84m (formerly History 1670). The New Deal: The United States During the Roosevelt Years]

Catalog Number: 4878 Enrollment: Limited to 15.

Lisa M. McGirr 2543

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

An exploration of the trajectory of New Deal reform and the broader social, economic, political, and cultural changes in the US 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.

Note: Expected to be given in 2011–12.

[*History 84o. Woodrow Wilson's America: The Emergence of the Modern United States, 1856-1924]

Catalog Number: 59842 Enrollment: Limited to 15.

Trygve Van Regenmorter Throntveit 6066

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

Woodrow Wilson (1856-1924) was a lawyer, scholar, and statesman who experienced, studied, and shaped many defining moments in America's emergence as a unified nation-state and modern industrial society. In this research seminar, Wilson's responses to his changing nation prompt engagement with multiple narratives of epochal events in his lifetime, including: Civil War, Reconstruction, industrialization, immigration, imperialism, segregation, woman suffrage, progressivism, state centralization, scientific advance, religious fundamentalism, modernism, consumerism, and World War I.

Note: Expected to be given in 2011–12.

[*History 84q. Histories of the Present]

Catalog Number: 32206 Enrollment: Limited to 15.

Walter Johnson 5616 (on leave 2010-11)

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

This course will focus on creating oral histories of the current crisis. The 2009-10 topic will be the history of Allston and Cambridge and their relation with Harvard, including the history of Boston and of Harvard in Boston, and the practice of oral history. Students will obtain certification to work with human subjects, identify a topic, and contact sources. The goal will be to create an archive for the future, to better understand university/community relations, and to rework the relationship of "Harvard" to "Allston" and "Cambridge".

Note: Expected to be given in 2011–12. Part of the Project on Justice, Welfare, and Economics and the activity-based-learning initiative.

***History 84s. Women Acting Globally - (New Course)**

Catalog Number: 20751 Enrollment: Limited to 15.

Ann Marie Wilson 6576

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

From the 1840 World's Anti-Slavery Convention in London to the Beijing Conference for Women in 1995, women have built transnational alliances in order to engage a variety of political issues: from abolition and temperance, to woman suffrage and sexual liberation, to child labor and disease prevention, to peace and international relations. In this seminar students will write original research papers on various aspects of women's international agendas from the 1840s to 1990s.

***History 84t. Trans-War America: Cultural and Political Origins of an Ambivalent Empire, 1914-1945 - (New Course)**

Catalog Number: 35194 Enrollment: Limited to 15.

Trygve Van Regenmorter Throntveit 6066

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



This research seminar explores the cultural, political, and international origins of America's post-1945 ascendancy. How did socio-economic change, progressive reform, cultural cosmopolitanism, and geopolitics push America into the world-political limelight during World War I? How did conflicting isolationist and internationalist currents affect Americans' response to war's aftermath, and to a second global catastrophe? Do the answers illuminate-or challenge-America's current global role? Readings, discussions, and a final research paper tackle these and other questions.

***History 84u. Gender, Migration, and Globalization in 20th-Century U.S. History - (New Course)**

Catalog Number: 97155 Enrollment: Limited to 15.

Lili M. Kim 6733

Half course (fall term). W., 2–4.

Scholars often speak of transnational migration and globalization as a recent phenomenon. The United States, however, has long witnessed mass movements of immigrants and migrants affected by global economies, labor and capital expansion, imperialism, and colonialism. This seminar explores theories and histories of migration and immigration in the age of globalization, focusing particularly on the gendered experiences of migration, labor, citizenship, identity, and resistance in the United States and beyond over the last century.

[*History 86a (formerly *History 1828). Christianity and Chinese Society]

Catalog Number: 2587 Enrollment: Limited to 15.

Henrietta Harrison 5161 (on leave 2010-11)

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

Examines the history of Catholic and Protestant Christianity in China from the 16th century to the present. The focus is on non-elite Chinese believers and the ways in which Christianity affected their lives.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the General Education requirement for Culture and Belief or the Core area requirement for Historical Study A. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past.

[*History 86b (formerly *History 1843). Imperial Japan and the US]

Catalog Number: 3802 Enrollment: Limited to 15.

Andrew Gordon 1891 (on leave fall term)

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

The United States and Japan emerged simultaneously as imperial powers at the turn of the 20th century. This course examines the cultural and economic, as well as political relations to these two empires in the early decades of their interaction. It draws on the rich body of English language archival materials at Harvard and in the Boston area for student research projects.

Note: Expected to be given in 2011–12.

***History 86d (formerly *History 1895). The Indian Ocean in Comparative Perspective**

Catalog Number: 8123 Enrollment: Limited to 15.

Sugata Bose 3960

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



Explores the history of the Indian Ocean inter-regional arena in the comparative context of histories of the Atlantic, Mediterranean and the Pacific worlds from the 1490s to the 1990s. The changing meanings of sovereignty, religiously informed universalisms and the links forged by intermediary capital and migrant labor in the age of global empire.

[*History 86e (formerly *History 1897). Nation, Reason and Religion in South Asia]

Catalog Number: 1447 Enrollment: Limited to 15.

Sugata Bose 3960

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

Examines the connections between nation, reason and religion in South Asian political thought and practice. Precolonial patriotisms, rational and religious reforms, colonial modernity and anti-colonial nationalisms, visions of nationhood and forms of state power, and post-colonial nationalisms for and against the state.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Foreign Cultures.

[*History 87a (formerly *History 1912). Health, Disease, and Ecology in African History]

Catalog Number: 5905 Enrollment: Limited to 15.

Emmanuel K. Akyeampong 3421

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

Examines the history of disease and health in sub-Saharan Africa from the 19th century to recent times, exploring African and western concepts of health, disease and healing. Illustration through discussion of case studies of individual diseases, including malaria/sickle cell trait, trypanosomiasis, tuberculosis, sexually transmitted diseases, alcoholism, AIDS, and onchocerciasis, and the public health policies affecting them.

Note: Expected to be given in 2011–12.

Prerequisite: Senior level undergraduates.

[*History 87b (formerly *History 1917). Human Rights in Africa: An Historical Perspective]

Catalog Number: 4514 Enrollment: Limited to 15.

Caroline M. Elkins 3961

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

An examination of the evolution of human rights in sub-Saharan Africa during the 20th century and its impact on states and societies throughout the region. The theoretical underpinnings of international human rights accords will be assessed alongside African conceptualizations of individual rights and community obligations. The tension between concepts of universal rights, civilization, and cultural relativism will be explored through an examination of specific case studies in the colonial and post-colonial periods.

Note: Expected to be given in 2012–13.

***History 88b. Medieval History and Cinema - (New Course)**

Catalog Number: 70486 Enrollment: Limited to 15.

Cemal Kafadar 2459

Half course (spring term). M., 2–4.

This course deals with the challenges of representing medieval history by focusing on selected



films, which will be viewed at two levels at once, as films and as history. What are the uses of cinema as a vehicle for thinking about the past? What qualities, other than accuracy, make for good history in films? What are the advantages, if any, of cinematic representation of the premodern past with its different sense of intimacy with the supernatural?

Note: There will be a group viewing of selected films each week and a class meeting to discuss films and related readings.

***History 89a (formerly *History 1916). British Colonial Violence in the 20th Century**

Catalog Number: 4626 Enrollment: Limited to 15.

Caroline M. Elkins 3961

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

Will explore Britain's deployment of various forms of violence in its 20th-century empire, and how this violence was understood, justified, and represented in the empire and at home. Imperial objectives and policies will be weighed alongside local factors such as race, settler presence, indigenous responses to colonial rule, and economic and strategic interests to assess the universality and particularity of British colonial violence.

***History 89g. American Business and U.S. Foreign Relations, 1900-Present - (New Course)**

Catalog Number: 80388 Enrollment: Limited to 15.

Vernie Alison Oliveira 6581

Half course (spring term). W., 3–5. EXAM GROUP: 8, 9

This course will examine the impact of American business concerns in the conduct of the United States' foreign relations in the twentieth century. Topics will include the negotiation of protectionist claims at home, the drive to open markets abroad, the salience of investment disputes in U.S. bilateral relations, and U.S. government support for the internationalization of American business.

Ancient and Medieval History

Primarily for Undergraduates

Jewish Studies 80. American Jews and the Television Age - (New Course)

For Undergraduates and Graduates

[History 1011. The World of the Roman Empire]

Catalog Number: 45321

Emma Dench

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

An introduction to Roman history from the mid third century BCE to the mid third century CE, with emphasis on the multiple cultures of the Roman empire and their diverse involvement in, and perspectives on, Roman conquest and rule. Challenging traditional narratives of Roman political history, we will seek a much more dynamic view of 'Roman' culture and society, based on both literary and archaeological evidence.

Note: Expected to be given in 2012–13.



History 1012. Identity in Classical Antiquity - (New Course)

Catalog Number: 69822

Emma Dench

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

What did it mean to be Greek, Athenian, or Roman in classical antiquity? We explore the different ways in which such identities were articulated from the archaic Greek world to the world of the Roman Empire, considering textual and archaeological evidence.

[History 1020 (formerly History 1091). Jews and Judaism in the Ancient World]

Catalog Number: 6035

Shaye J.d. Cohen

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

A survey of Jewish history in antiquity from the Persian period (5th century BCE) to the Byzantine period (5th century CE). Topics include: political accommodation and resistance, Hellenism, the Hasmoneans and Herod the Great, the effects of Roman rule, Pharisees, Qumran, Christians, unity and diversity, the destruction of the temple and its aftermath, the emergence of rabbinic Judaism, homeland and diaspora.

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 1462.

[History 1025. Overlapping Spheres: Jewish Life in Early Modern Europe]

Catalog Number: 76199

Rachel L. Greenblatt

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

Participants in this course will use primary and secondary sources to examine multiple aspects of the ways Jews lived among their Christian neighbors during this exciting crossroads between traditional society and the beginnings of what we later called "modernity." We will look at the period from approximately 1500 to 1750, characterized by the advent of print, the Protestant challenge to Catholic hegemony, increasing use of the written vernacular, and the rise of capitalism, absolutism and toleration.

Note: Expected to be given in 2012–13.

[History 1040 (formerly History 1111). The Fall of the Roman Empire]

Catalog Number: 6019

Michael McCormick

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

Uses the latest results of archaeology, written sources, and the natural sciences to study the changes, violent or subtle, that transformed the Roman world to produce medieval civilization between ca. 300 and 700. Topics include Constantine's conversion, economic recovery and collapse, the barbarians, women and power, pandemic disease; emphasizes reading of ancient sources in translation.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Historical Study B.

[History 1055 (formerly History 1121). Vengeance, Hatred, and Law in Premodern Europe]

Catalog Number: 7743



Daniel L. Smail

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

Will explore the great transformation in European legal habits that took place between 500 and 1600, as family-based forms of law, vengeance, and regulation gave way to royal, municipal, and ecclesiastical justice. Topics include the blood feud, the judicial ordeal, and judicial torture. The course is designed to raise ethical and substantive issues that are relevant to an understanding of the function of law and justice in the modern world.

Note: Expected to be given in 2012–13. This course, when taken for a letter grade, meets the Core area requirement for Historical Study B.

History 1060. Europe and Its Borders, 950-1550

Catalog Number: 0914

Daniel L. Smail

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

Surveys an early phase of European expansion and colonial activity in areas including the Iberian Peninsula, Sicily, the eastern Mediterranean, eastern Europe, the Baltic lands, Wales, and Ireland. A major goal of the course is to explore how a European identity emerged in the process of contact and conflict in the new borderlands. Readings will include primary and secondary sources.

Note: This course, when taken for a letter grade, meets the General Education requirement for Societies of the World or the Core area requirement for Historical Study B. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past.

History 1070. Heresy and Religious Debate in the Middle Ages - (New Course)

Catalog Number: 75183

Sita Steckel

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

The course explores controversies about heresy and orthodoxy within the medieval church, ranging from the persecution of heretical movements to clashes between the pope and European princes and between competing religious orders or academic communities. With an emphasis on (translated) source texts, the course examines how such heresy conflicts contributed to the emergence of religious identities and the development of enduring forms of religious debate.

[History 1080 (formerly History 1150). The Jews in Muslim and Christian Spain]

Catalog Number: 5331

Bernard Septimus

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

A study of the political, social, and cultural history of the Hispano-Jewish community from the Muslim conquest of Spain in 711 to the expulsion of the Jews from Christian Spain in 1492. Emphasis on literary and intellectual developments and on the complex relationship of the Jews to Iberian Christendom and Islam. Combines material from former courses History 1151 and 1152.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the General Education requirement for Culture and Belief or the Core area requirement for Historical



Study B. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past.

Cross-listed Courses

[Historical Study B-13. Charlemagne and the Birth of Medieval Civilization]
[Medieval Studies 107. Authority and Invention: Medieval Art and Architecture](#)
[Medieval Studies 114. The Medieval Imagination: Visions, Dreams, and Prophecies]
[Societies of the World 41 \(formerly History 1050\). Medieval Europe](#)

Primarily for Graduates

***History 2050 (formerly *History 2101). Medieval Societies and Cultures: Proseminar**

Catalog Number: 6693

Michael McCormick

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

Introduction to the study of medieval history, and to the literature basic to the examination field. Stress on classic and innovative scholarship about medieval society, economy, institutions and culture.

Note: May not ordinarily be credited as one of the research seminars required in the first-year program.

Prerequisite: Reading knowledge of French and/or German.

***History 2052. Rome and China (Graduate Seminar in General Education) - (New Course)**

Catalog Number: 64031 Enrollment: Limited to 15.

Emma Dench and Michael J. Puett

Half course (spring term). Th., 2–4.

A comparative study of the histories of the Roman Empire (at its peak c. 200 BCE-c. 200 CE) and the Han Empire (202 BCE-220 CE). We will study comparative topics in both areas, discuss the growing scholarship on comparative empires in general, and explore methodological questions concerning how to undertake and teach comparative history. The seminar will design and develop a General Education course on these themes for undergraduates.

[History 2055 (formerly History 2122). Early Medieval History: Seminar: Communications in the Early Medieval Mediterranean]

Catalog Number: 5011

Michael McCormick

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

Communications, travel, and commerce in the early medieval Mediterranean. Meetings will include close philological and historical analysis of relevant Latin sources, and research papers by participants.

Note: Expected to be given in 2011–12.

Prerequisite: Latin, with either German or French, is required. Normally History 2050 and or MS 101.



History 2060 (formerly History 2125). Topics in Medieval and Early Global History: Seminar

Catalog Number: 1874

Daniel L. Smail

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

This course is designed to introduce graduate students to the sources and methodologies necessary to conduct research on medieval Europe.

History 2080 (formerly History 2126). Medieval Law

Catalog Number: 3140

Charles Donahue, Jr. (Law School)

Half course (spring term). Tu., 5–7 p.m. EXAM GROUP: 18

Readings focused alternately on the English legal tradition and on the Roman-canonical tradition. The topic for 2010-11 will be the Roman-canonical tradition. Short papers analyzing texts will be required but not a research paper.

Note: Offered jointly with the Law School as Law 96760A-1/S

Prerequisite: Some Latin required.

Cross-listed Courses

***Medieval Studies 202 (formerly *Medieval Studies 102). Latin Palaeography and Manuscript Culture: Seminar**

Medieval Studies 223. Preaching and Sermon in the Middle Ages

[Medieval Studies 227 (formerly Medieval Studies 127). Hildegard of Bingen and the Gospels: Seminar]

Graduate Courses

Cross-listed Courses

***Medieval Studies 300hf (formerly Medieval Studies 300). Medieval Studies Interdisciplinary Workshop**

Renaissance and Early Modern History

See also Committee on Medieval Studies. Students are also directed to Divinity School courses.

Primarily for Undergraduates

Cross-listed Courses

Historical Study B-18. The Protestant Reformation

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

Societies of the World 14 (formerly Historical Study A-88). The British Empire



For Undergraduates and Graduates

[History 1114 (formerly History 1514). Early Modern Eastern Europe (1450-1795)]

Catalog Number: 9973

Serhii Plokhii

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

Explores the history of the "other" Europe from the collapse of Mongol rule and the rise of an independent Muscovite state in the second half of the fifteenth century to the partitions of Poland in the late eighteenth century. Examines the early modern history of the territories that became Russia, Ukraine, Belarus, Lithuania, and Poland—a period that saw the formation and collapse of multiethnic states, the creation of modern empires, and fierce religious competition.

Note: Expected to be given in 2012–13.

[History 1117. Kingdoms to Empire: The Rise of Early Modern Britain, 1485-1714]

Catalog Number: 93347

David Smith (Wilfrid Laurier University)

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

This course surveys the rise of Britain from a disparate group of medieval kingdoms, including England, Scotland and Ireland, to a world power. Major topics include religious upheaval and reformation, constitutional transformation and the emergence of parliamentary supremacy, the rise of print culture, and Britain's larger involvement in the European and Atlantic worlds.

Readings include Shakespeare, Hobbes, Locke, Spenser, and More.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Historical Study A.

[History 1118. Encounters: Early Modern British Exploration and Settlement in the Atlantic World]

Catalog Number: 7586

David Smith (Wilfrid Laurier University)

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

This course investigates voyages to the Americas and the establishment of colonies by early modern English explorers and settlers up to the mid-seventeenth century. As they yearned for commercial, religious and social utopias in their "New World," the English encountered peoples with frequently conflicting visions of the world. Topics include cross-cultural encounter, travel narratives, slavery, the technology of early modern exploration, colonialism, and piracy.

Note: Expected to be given in 2011–12.

[History 1151 (formerly History 1450). France 1500-1715]

Catalog Number: 7575

Ann M. Blair

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

A general survey of the history and historiography of early modern France ca. 1500-1715, with a special emphasis on topics in cultural history, including: humanism and printing; Protestantism; political thought; royal and court rituals; and the beginnings of the Enlightenment. Assigned readings from Rabelais, Montaigne, Pascal, Racine, and Voltaire among the primary sources; from Fernand Braudel, Natalie Davis and Robert Darnton among the secondary sources.



Note: Expected to be given in 2011–12. All assignments in English. An optional extra French-language reading section will be arranged in case of interest.

[History 1166 (formerly *History 71a). Marriage, Sex, and Family in Western Europe, 1250-1750: Conference Course]

Catalog Number: 2725 Enrollment: Limited to 15.

Steven Ozment

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

History 1166 goes into the preindustrial household to discover first hand the rule of men, the rights of women, the bearing and rearing of children, and the opportunities of teenagers and young adults. Both contemporary sources and modern scholarship will be read and discussed.

Note: Expected to be given in 2011–12. Highly recommended for beginning graduate students.

Cross-listed Courses

[Celtic 107. Early Irish History]

[Medieval Studies 117. Constitutional and Legal History of Medieval England]

[Medieval Studies 119. Constitutional and Legal History of Medieval Continental Europe](#)

Primarily for Graduates

[History 2110. Problems in Late Medieval, Renaissance/Reformation, and Early Modern Europe: Seminar](#)

Catalog Number: 50731

Steven Ozment

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

History 2110 is designed for beginning graduate students and upper level undergraduates in search of a senior thesis, or pursuing a special interest. This course addresses both cutting edge historical debates and student presentations of topical readings chosen in consultation with Mr. Ozment.

[History 2111. Classical and Neo-Latin Literature in the Italian Renaissance: Seminar]

Catalog Number: 0123 Enrollment: Limited to 10.

James Hankins

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

This course studies the reception and interpretation of classical literary and philosophical texts between 1350 and 1600. Topics include the revivals of the ancient philosophical schools, the reception of ancient literary texts, and the revival and development of the classical genres in Renaissance Latin literature.

Note: Expected to be given in 2011–12.

Prerequisite: Reading knowledge of Latin and Italian.

[*History 2112 \(formerly *History 2473\). Latin Texts of the Italian Renaissance: Proseminar](#)

Catalog Number: 0140

James Hankins



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

Introduction to methods and techniques of textual scholarship with reference to Renaissance Latin texts. Topics include finding and describing manuscript and printed sources; paleography and codicology; text editing; rhetorical analysis. Course includes a six-week paleography workshop held in Houghton Library.

Note: Enrollment by permission of the instructor. May not ordinarily be credited as one of the research seminars required in the first-year program.

Prerequisite: A reading knowledge of Latin, French, Italian, and German.

[History 2121. Cultural History of Early Modern Europe: Seminar]

Catalog Number: 60428

Ann M. Blair

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

This course will examine different approaches in cultural history of early modern Europe and guide students through the stages of writing a major research paper. The syllabus will emphasize France 1500-1700, but students with the requisite background may write on a topic in another national context.

Note: Expected to be given in 2011–12. Also open to advanced undergraduates, with the consent of the instructor.

[History 2123. Early Modern Intellectual and Cultural History: Proseminar]

Catalog Number: 3160

Ann M. Blair

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

This course is designed primarily for graduate students preparing a graduate field exam in early modern European intellectual and cultural history, but it is open to others with similar needs and preparation, with the consent of the instructor.

Note: Expected to be given in 2011–12. Students interested in this course should attend the first meeting of History 2121.

***History 2132 (formerly *History 2332). Early Modern England: Seminar**

Catalog Number: 7105 Enrollment: Limited to 10.

Mark A. Kishlansky

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

Students will conduct primary research on topics of significance in the history of England, ca. 1563–1714.

Note: Permission of instructor required.

History 2133 (formerly History 2902). Studies in Tudor and Stuart History: Proseminar

Catalog Number: 1428

Mark A. Kishlansky

Half course (fall 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 with permission of instructor.



Cross-listed Courses

Medieval Studies 201 (formerly Medieval Studies 101). The Auxiliary Disciplines of Medieval History: Proseminar

Modern European History

Primarily for Undergraduates

Cross-listed Courses

Culture and Belief 20 (formerly Historical Study A-27). Reason and Faith in the West
[Ethical Reasoning 12. Political Justice and Political Trials]

[Historical Study B-35. The French Revolution: Causes, Processes, and Consequences]

***History and Literature 90ae. Border Crossings: Remaking European Identities - (New Course)**

***History and Literature 90w. Europe and Africa: Colonial and Postcolonial Encounters**

***History and Literature 90y. London - Paris - Berlin - St. Petersburg: Capital Cities in Europe's Long Nineteenth Century**

Societies of the World 11. Germany in the World, 1600-2000

[Societies of the World 18 (formerly History 1205). Europe Since the Second World War]

[Societies of the World 19. Western Ascendancy: The Mainsprings of Global Power from 1600 to the Present]

For Undergraduates and Graduates

[History 1206. France since 1870] - (New Course)

Catalog Number: 41522

Mary D. Lewis

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

This course explores the history of France from the foundation of the Third Republic to the beginning of the 21st century. Topics include the advent of modern left-wing, right-wing, and anti-Semitic politics; imperial expansion and its consequences; the devastating impact of the First World War; the tumultuous interwar era; the Second World War and the politics of resistance, collaboration, and memory; decolonization; the May 1968 movement; immigration and identity politics since the 1970s.

Note: Expected to be given in 2011–12.

[History 1213 (formerly History 1413). The Evangelical Tradition, c. 1700-2000]

Catalog Number: 5888

David Hempton (Divinity School)

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

Investigates the Evangelical tradition from its origins in the religious revivals of the eighteenth century to its contemporary role in American culture and society. Will explore the complexities of gender, ethnicity, social class, and political culture. Will make use of primary and secondary materials to shed light on Evangelical theology, spirituality, and cultural expression throughout



the North Atlantic region and beyond.

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 2358.

[History 1214 (formerly History 1414). Encountering of the Other: The Expansion of the Christian West, 1650-1830]

Catalog Number: 2392

David Hempton (Divinity School)

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

Investigates themes in the history of Christianity from the mid-seventeenth to the mid-nineteenth centuries. Will focus on European Christendom and its expansion to other parts of the world in the early modern period. What was at stake in the multifaceted cultural encounters between European Christianity and other religious traditions as Christianity expanded into new social spaces, and what was the relationship between Protestant and Catholic missionary movements and the expansion of the European seaborne empires?

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 2355.

History 1224 (formerly History 1424). Britain Since 1760: Island, Europe, Empire

Catalog Number: 2630

Maya Jasanoff

Half course (fall term). M., W., at 10, and a weekly section to be arranged. EXAM GROUP: 3
Survey history of Great Britain from the reign of George III to the administration of Tony Blair. These centuries witnessed Britain's spectacular emergence as the world's leading industrial and imperial power; and its dramatic decline in influence after World War II. How did Britons experience domestic and global change? Themes include political reform, social class, national identity, popular culture, rise and fall of empire, relations with Europe. Extensive use of written and visual primary sources.

Note: This course, when taken for a letter grade, meets the Core area requirement for Historical Study A.

History 1251 (formerly 1451). The History of France from 1715-1958

Catalog Number: 6683

Patrice Higonnet

Half course (fall term). Tu., Th., at 10, and a weekly section to be arranged. EXAM GROUP: 12
France from the death of Louis XIV to the French Revolution and its echoes in the Revolutions of 1830, 1848, 1871 and the collapse of the Third Republic in 1940. The rise and fall of France as an imperial power and as victor and loser of two world wars. Other themes include the history of Paris and cultural change in letters and the arts, with the move from Enlightenment to romanticism, realism, and surrealism.

[History 1252 (formerly *History 72d). Paris From the French Revolution Through the 19th Century: Conference Course]

Catalog Number: 6355 Enrollment: Limited to 15.

Patrice Higonnet

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

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.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Historical Study B.

History 1255. Order and Conquest: Modern Central Europe - (New Course)

Catalog Number: 11845

Brendan Jeffrey Karch

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

Examines competing concepts for political and social order in the lands historically impacted by German or Habsburg rule from 1848 to the present. Topics include citizenship, class, and ethnic identity in nineteenth-century empires; nationalism and socialism as mass political movements; anti-Semitic ideology and practice; German expansionism and genocide; ethnic cleansing and the redrawing of borders; and the Cold War division of Central Europe.

History 1256. Fascist Europe, 1918-1945 - (New Course)

Catalog Number: 78474

Brendan Jeffrey Karch

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

Traces the rise and fall of fascist states and movements across Europe. Examines fascism's ideological influences, political mobilization, social engineering efforts, gender policies, literary and cultural output, use of violence, and relationship to other forms of authoritarian rule.

Comparative cases include Nazi Germany, Fascist Italy, and movements in France, Spain, Hungary, Romania, and Yugoslavia.

[History 1266 (formerly History 1456). Central Europe, 1789-1918: Empires, Nations, States]

Catalog Number: 3736

Alison F. Frank

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

Examines the development of nationalism and socialism as ideologies intended to shape the identities, public and private behavior, and political activities of subjects of the continental European empires in the long nineteenth century. Primary focus will be on the Habsburg Empire, with attention paid to other German-speaking lands and to the western territories of the Russian Empire (especially Poland).

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Historical Study B.

History 1270. Frontiers of Europe: Ukraine since 1500

Catalog Number: 1910

Serhii Plokhii

Half course (fall term). Tu., Th., at 10. EXAM GROUP: 12

The history of Ukrainian territory and its people within a broad context of political, social and cultural changes in Eastern Europe in the course of the half of a millennium. Special emphasis on the role of Ukraine as a cultural frontier of Europe, positioned on the border between settled areas and Eurasian steppes, Christianity and Islam, Orthodoxy and Catholicism, as well as a battleground of major imperial and national projects of modern era.



Note: This course, when taken for a letter grade, meets the Core area requirement for Historical Study A.

[History 1280 (formerly History 1531). History of the Soviet Union, 1917-1991]

Catalog Number: 4501

Terry D. Martin

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

Examines the history of the Soviet Union from the Russian Revolution to Gorbachev's failed reforms. Focus on the period 1928-53 when industrialization, nationalization and political terror created a distinct Soviet society and culture. Readings include novels, short stories, memoirs, Soviet propaganda, high policy deliberations, letters, journalism, songs, jokes, etc.

Note: Expected to be given in 2011-12. This course, when taken for a letter grade, meets the Core area requirement for Foreign Cultures or Historical Study A, but not both.

[History 1281. The End of Communism]

Catalog Number: 84441

Terry D. Martin and Alison F. Frank

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

Examines how and why communism collapsed in the Soviet Union and Eastern Europe. Places the events of 1989/1991, usually considered sudden and shocking, within the political, economic, social, and cultural context of the surrounding decades (1970-2000). Considers both international and domestic factors, including the Cold War and the arms race; ideology and dissent; consumption and culture; oil, economics and the environment; nationalism and civil war; gender and health. Investigates the role of structural conditions and contingency in history.

Note: Expected to be given in 2012-13. This course, when taken for a letter grade, meets the General Education requirement for Societies of the World or the Core requirement for Historical Study A. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past.

History 1282. The Russian Revolution: An International History - (New Course)

Catalog Number: 68318

Terry D. Martin

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

Analyzes the 1917 Russian Revolution as the central event in the revolutionary transformation of Eurasia from 1905 to 1934. Considers the 1905-1912 revolutions in Russia, Turkey, Persia, and China; the 1917-18 collapse of the German, Austro-Hungarian, Russian, and Ottoman empires and ensuing revolutions and civil war; ends with Stalin's Revolution from Above, Hitler's Nazi Revolution, and Mao's Long March. Themes include revolution, civil war, state collapse, ideology, violence, and the transnational political contagion.

Note: This course, when taken for a letter grade, meets the General Education requirement Societies of the World or the Core area requirement for Historical Study B. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past.



[History 1285. Russia and the Great Eurasian Steppe]

Catalog Number: 8443

Kelly A. O'Neill-Uzgiris

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

Introduction to the history of Russian interactions with the peoples and states of the Eurasian steppe from the rise of Chinggis Khan to the fall of the Romanovs. Topics include the legacy of Mongol conquest, the importance of trade, and the Russian-Ottoman struggle for dominance in the region. How did the experience of Russia's Muslim inhabitants change over time? Did Russia civilize the steppe? Emphasis on incorporating non-European voices into the narrative of Russian history.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the General Education requirement for Societies of the World or the Core requirement for Historical Study A. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past.

[History 1290. The History of the Russian Empire]

Catalog Number: 9566

Kelly A. O'Neill-Uzgiris

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

The history of Russia from the conquest of Kazan and Astrakhan in the sixteenth century to 1917. Topics include the struggle with "westernization", the nature of autocratic authority, the role of the Orthodox Church, the integration of non-Russian peoples, industrialization and modernization, and the inevitability of the revolutions of 1905 and 1917.

Note: Expected to be given in 2011–12.

Cross-listed Courses

[Celtic 107. Early Irish History]

[Jewish Studies 135. Jewish-Arab Encounters: the Classical Age](#)

Primarily for Graduates

[History 2225. Britain and its Empire: Historiography: Proseminar]

Catalog Number: 4488

Maya Jasanoff

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

Intensive introduction to the historiography of modern Britain and the British Empire. Designed for graduate students intending to pursue general exams in this field, or preparing for research on British and imperial topics.

Note: Expected to be given in 2011–12.

[*History 2260 (formerly *History 2441). Central Europe: Seminar]

Catalog Number: 6464 Enrollment: Limited to 12.

Alison F. Frank

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

Major themes include nationalism, communism, the 'Polish question,' the 'Jewish question,' the



political and economic viability of the Habsburg Empire, cultural exchange and diplomatic relations between Austria, Germany and the Russian Empire/Soviet Union.

Note: Expected to be given in 2011–12.

Prerequisite: Reading Knowledge of either German, Polish, Czech, or another Central European language.

[*History 2261. Environmental History of Europe and the World: Proseminar]

Catalog Number: 69334 Enrollment: Limited to 12.

Alison F. Frank

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

Introduces graduate students to recent scholarship on environmental history, with an emphasis on Europe and Europeans' interactions with the rest of the world.

Note: Expected to be given in 2012–13.

[History 2262. France as Empire: Proseminar]

Catalog Number: 48026 Enrollment: Limited to 15.

Mary D. Lewis

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

Intensive introduction to the major historiographical debates regarding French imperialism/colonialism, covering its full geographic and temporal breadth (17th-20th c.).

Note: Expected to be given in 2012–13.

[History 2265 (formerly History 2475). Problems and Sources in Modern German History: Seminar]

Catalog Number: 8355 Enrollment: Limited to 12.

David Blackbourn

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

A research seminar that examines different ways of approaching German history in the nineteenth and twentieth centuries. We consider a variety of interpretations and methodologies. Particular attention is given to diverse source materials, including literary and visual sources.

Note: Expected to be given in 2011–12. Reading knowledge of German not required.

[History 2271 \(formerly History 2532\). The Soviet Union: Proseminar](#)

Catalog Number: 2405

Terry D. Martin

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

Introduction to major debates in the historiography of the Soviet Union and late imperial Russia.

[History 2272 \(formerly History 2531\). The Soviet Union: Seminar](#)

Catalog Number: 7969

Terry D. Martin

Half course (spring term). W., 2–4. EXAM GROUP: 7, 8

Introduction to archival and primary sources, as well as major historiographical debates. Primary focus on major research paper.

Prerequisite: Reading knowledge of Russian.



[History 2285. Imperial Russia: Proseminar]

Catalog Number: 48104 Enrollment: Limited to 12.

Kelly A. O'Neill-Uzgiris

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

Intensive introduction to major problems, themes and approaches to the history of imperial Russia. Prepares students for the general exam but is open to all interested graduate students.

Note: Expected to be given in 2011–12.

Cross-listed Courses

Intellectual History

For Undergraduates and Graduates

[History 1300 \(formerly History 20a\). Western Intellectual History: Greco-Roman Antiquity](#)

Catalog Number: 6308

James Hankins

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

A survey of major themes in the intellectual history of the Greek and Roman World, with special attention to metaphysics, psychology, ethics and the philosophic life. Readings in the Presocratics, Plato, Aristotle, Lucretius, Epictetus, Cicero, Seneca, Marcus Aurelius, Plotinus, Augustine, and Boethius.

Note: This course, when taken for a letter grade, meets the General Education requirement for Ethical Reasoning. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for either Historical Study B or Moral Reasoning, but not both.

[History 1301 \(formerly History 20b\). Western Intellectual History: The Middle Ages to the Seventeenth Century](#)

Catalog Number: 7573

James Hankins

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

A survey of major themes in medieval and early modern intellectual history. Readings in Anselm, Abelard, Thomas Aquinas, William of Ockham, Petrarch, Machiavelli, Thomas More, Martin Luther, Montaigne, Francis Bacon, Descartes, Hobbes.

Note: This course, when taken for a letter grade, meets the Core area requirement for Historical Study B.

[History 1304 (formerly History 1470). Modern European Intellectual History Subject and Structure, Nietzsche to Postmodernism]

Catalog Number: 7131

Peter E. Gordon

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

An introduction to major landmarks in Continental philosophy and social theory in the modern



period, beginning with Nietzsche. Focuses on the various challenges to traditional enlightenment notions of freedom and subjectivity in psychoanalysis, Critical Theory, existentialism, French structuralism, and post-structuralism.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Historical Study A.

[History 1305. The European Enlightenment: Conference Course]

Catalog Number: 3702 Enrollment: Limited to 15.

James Hankins

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

Reading and discussion of major texts of the European Enlightenment, from the late 17th century to the late 18th century, with particular attention to the intellectual community that produced the *Encyclopédie* and to the theory of religion. Readings in Spinoza, Locke, Bayle, Montesquieu, La Mettrie, Voltaire, D'Alembert, Diderot, Rousseau, Hume and Kant.

Note: Expected to be given in 2011–12.

[History 1318. History of the Book and of Reading]

Catalog Number: 7410

Ann M. Blair

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

An introduction to the cultural history of the book and its functions as both material object and text. Major themes include the techniques of book production, authorship, popular and learned readership, libraries and censorship. The course surveys developments from scroll to web with a special focus on printing and developments in early modern Europe, 16th-18th centuries.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Historical Study A.

[History 1322. Heidegger and Arendt]

Catalog Number: 1906

Peter E. Gordon

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

This course investigates the complex philosophical affiliation between Martin Heidegger and Hannah Arendt. Will understand how various themes of Heideggerian philosophy were borrowed, displaced, revised, and challenged in Arendt's political theory. In the first half of the course we will read texts by Heidegger, esp. selections from *Being and Time*, and *An Introduction to Metaphysics*. In the second half of the course we will read Arendt's major theoretical works, including *Origins of Totalitarianism*, *The Human Condition*, and *On Revolution*.

Note: Expected to be given in 2011–12.

History 1323. German Social Thought, Nietzsche to Habermas - (New Course)

Catalog Number: 78728

Peter E. Gordon

Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

A philosophical and historical survey of major debates in modern German social theory over the span of a century, from Nietzsche's anti-foundationalist critique of morality and truth to



Habermas's attempt to rebuild a pragmatic-transcendentalist theory for ethical and discursive reason after the collapse of metaphysics. Readings by Nietzsche, Weber, Heidegger, Adorno, Horkheimer, and Habermas.

History 1324. French Social Thought - (New Course)

Catalog Number: 27206

Peter E. Gordon

Half course (spring term). Tu., Th., 11:30–1; . EXAM GROUP: 13, 14

A survey of major themes and debates in modern French social theory over the span of a century, from Durkheim's neo-Kantian theory of the social symbolic to Foucault's conception of the historical a priori, concluding with the recent emergence of neo-liberal conceptions of both history and society. Major readings by Durkheim, Mauss, Lévi-Strauss, Canguilhem, Foucault, Lefort, Furet, and Gauchet.

[History 1330 (formerly History 1661). Social Thought in Modern America]

Catalog Number: 8440

James T. Kloppenberg

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

An inquiry into American ideas since 1890, examining developments in political and social theory, philosophy, and literature in the context of socioeconomic change. Topics include the breakdown of Victorian idealism and laissez-faire; the emergence of social science and progressivism; conflicts over gender, race, and ethnicity; interwar cultural ferment and political reform; post-World War II theories of consensus and 1960s radicalism; and the consequences for democracy of our contemporary culture of irony.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Historical Study A.

History 1345. The Human Sciences in the Modern West

Catalog Number: 1324

Andrew Jewett

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

This course explores how the human sciences evolved from loosely organized discourses into academic disciplines in response to the sweeping transformations of the modern era. Students gain perspective on how universities such as Harvard became what they are today. Readings consist of short primary selections, from Francis Bacon and Rene Descartes in the seventeenth century to Homi Bhabha, Jean Baudrillard, Pierre Bourdieu, Alasdair MacIntyre, Richard Rorty, Steven Pinker, and Francis Fukuyama in our own time.

Note: This course, when taken for a letter grade, meets the Core area requirement for Historical Study A.

History 1350. Theories of Secularization: Conference Course

Catalog Number: 5865 Enrollment: Limited to 15.

Peter E. Gordon

Half course (spring term). W., 2–4. EXAM GROUP: 7, 8

This advanced undergraduate course surveys various debates concerning the historical process and philosophical-political significance of secularization, especially the secularization of



political norms. The course concentrates on the history of European thought since 1650, with special reference to the encounter between Western monotheistic religion and rationalist modes of criticism that first emerged with the scientific revolution. Readings from: Veyne, Febvre, Marx, Weber, Schmitt, Löwith, Strauss, Blumenberg, and Taylor.

History 1390 (formerly History 1984). Understanding Democracy through History

Catalog Number: 1517

Alexander Keyssar (Kennedy School)

Half course (fall term). Tu., Th., 11:40–1. EXAM GROUP: 13, 14

Examines the evolution of democracies in different nations over extended periods of time, and will focus on one fundamental issue: Under what circumstances or conditions have democracies (or political rights) expanded, and under what circumstances or conditions have they contracted? Readings will include historical studies as well as comparative theoretical works.

Note: Offered jointly with the Kennedy School as DPI-703. This course may be lotteried.

Cross-listed Courses

Culture and Belief 20 (formerly Historical Study A-27). Reason and Faith in the West

Primarily for Graduates

[History 2300. Methods in Intellectual History: Proseminar]

Catalog Number: 7779 Enrollment: Limited to 15.

Instructor to be determined

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

Introduction to advanced research in intellectual history with special reference to philosophy and political thought. Readings will include primary and secondary materials drawn from East-Asian and Euro-American traditions.

Note: Expected to be given in 2011–12.

***History 2321. Methods in Book History: Seminar**

Catalog Number: 5169 Enrollment: Limited to 15.

Ann M. Blair and Leah Price

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

Will introduce students to methods and debates in the history of the book and of reading. Students from all humanities and social science disciplines are welcome. Primarily for graduates; open to advanced undergraduates by consent of the instructors.

[History 2330 (formerly History 2410). Ideas in Europe in the 18th Century: Seminar]

Catalog Number: 1077 Enrollment: Limited to 15.

Emma Rothschild

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

A graduate seminar which examines a number of 18th century writings (by Hume, Smith, Wollstonecraft, and Condorcet) and ideas (enlightenment, religion, empire), and explores different ways of writing about the history of ideas.

Note: Expected to be given in 2011–12.



[*History 2340 (formerly *History 2662 & *History 2662hf). Readings in American Thought]

Catalog Number: 8845 Enrollment: Limited to 20.

James T. Kloppenberg

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

An examination of classic and contemporary histories of American thought.

Note: Expected to be given in 2011–12.

History 2350. Research Seminar in the History of Education: Seminar

Catalog Number: 77605

Julie A. Reuben (Education School)

Half course (spring term). Tu., 2:30–5:30.

This course offers students the opportunity to conduct original research in the history of education.

Note: Offered jointly with the Graduate School of Education as S-508.

United States History

For Undergraduates and Graduates

History 1410. American Families, 1600-1900

Catalog Number: 20517

Laurel Thatcher Ulrich

Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

Family forms in the United States have varied widely over the centuries. This course will consider the radical innovations of 17th century Puritans, eighteenth-century Moravians, and nineteenth-century Mormons; the role of the family in debates over slavery, immigration, and the status of American Indians; and the impact of legal, economic, and social changes on mainstream ideals and practices. Students will work with a wide variety of family records as well as public documents and will have the option of writing about their own family history.

[History 1415 (formerly *History 84d). The Nine Lives of Benjamin Franklin: Conference Course]

Catalog Number: 6296 Enrollment: Limited to 15.

Joyce E. Chaplin

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

Examines some of the multiple lives that Franklin led during the eighteenth century. Students examine in depth one of these lives or identify and explore yet another, to better comprehend Franklin and the worlds in which he lived: colonial America, British empire, independent US, books, science, popular culture, politics, war, personal improvement, and many others.

Note: Expected to be given in 2011–12.

History 1430. Asian America and World War II - (New Course)

Catalog Number: 45633

Lili M. Kim

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



This course, through readings, discussions, and lectures, explores the lives and experiences of Asian Americans on the homefront during World War II. We will consider the social, economic, political, and cultural changes and continuities experienced by Asian Americans during the United States' war with Japan. We will also examine the consequences of the unprecedented internment of Japanese Americans, and their relevance for post 9-11 America.

History 1431. Asian American History - (New Course)

Catalog Number: 30526

Lili M. Kim

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

This course examines the experiences of Asian immigrants and Americans from the mid-19th century to the present. We will explore the continuities and changes of their experiences in larger contexts of U.S. race relations, feminism, labor movements, and international politics. We will also consider how the experiences of Asian immigrants and Americans complicate major narratives of U.S. history and how, together with other people of color, Asian Americans have transformed American society and culture.

[History 1433. American Populisms: Thomas Jefferson to Rush Limbaugh]

Catalog Number: 86765

Brett Flehinger

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

This course studies the American Populist tradition that defines the common "people" as the centerpiece of American economic and political life and thrives on opposition between the people and "elite" interests. The class focuses on the formal Populist movement and the People's Party of the late nineteenth century, and places this history in broader context, from Jeffersonian tradition through the rise of anti-elitist and anti-government movements characterized by Ronald Reagan and Rush Limbaugh.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Historical Study B.

History 1434. American Public Life in the 20th Century - (New Course)

Catalog Number: 33407

Brett Flehinger

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

A course covering the major public and political events in America from the administration of Teddy Roosevelt through Ronald Reagan. Focuses on both rising national unity and power, as well as persistent racial, gender, and economic division that conflicted with this unity. Topics include: the Progressive Era, New Deal, World Wars, and Civil Rights Movement, and Watergate.

[History 1441 (formerly History 1641). History of the US West]

Catalog Number: 3887

Rachel St. John

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

This lecture course will introduce students to the history of the place that we now know as the US West from before European expansion to the present. Lectures and readings will examine



how both particular national boundaries and distinctive regional patterns have defined the West. Drawing on histories, memoirs, journals, films, and images, students will explore a variety of perspectives on the political, economic, social, cultural, and environmental transformations of the American West.

Note: Expected to be given in 2011–12.

History 1445. Science and Religion in American Public Culture - (New Course)

Catalog Number: 99245

Andrew Jewett

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

This lecture course explores the multivalent interactions of science and religion in the United States, with a particular focus on the influence of democratic politics. Circling outward from the Scopes trial of 1925, it reaches back to the "pan-Protestant establishment" and the Darwinian controversies of the nineteenth century, and forward to today's debates over abortion and bioengineering. Students read a wide range of primary sources and examine visual material. No previous coursework is required.

Note: This course, when taken for a letter grade, meets the General Education requirement for United States in the World or Culture and Belief, but not both. This course, when taken for a letter grade, meets the Core area requirement for Historical Study A. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past.

History 1448. Culture and Politics in the (First) Gilded Age: The United States, 1861-1900 - (New Course)

Catalog Number: 35858

Ann Marie Wilson

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

This course examines the exciting and turbulent decades when the United States emerged from the ashes of the Civil War to become a modern industrial nation and major world power. Remembered for its robber barons, teeming social conflicts, laissez-faire ideology, and turn to empire, the first "Gilded Age" is often said to provide lessons for the world we are living in today. Together we will debate to what extent this may be true.

History 1457. History of American Capitalism

Catalog Number: 75535 Enrollment: Limited to 100.

Sven Beckert

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

Examines the development of the American economy from its beginnings to the present. Focuses on the nature of economic change during the past 400 years and the reasons for and effects of capitalist growth. Topics include Native-American economies, the industrial revolution, slavery, the rise of new business structures, labor relations, and technological change.

Note: This course, when taken for a letter grade, meets the Core area requirement for Historical Study B. Students who have taken Historical Study B-49 may not take this course for credit.



History 1462. History of Sexuality in Modern West - (New Course)

Catalog Number: 83347 Enrollment: Limited to 45.

Nancy F. Cott

Half course (spring term). M., W., at 12, and a weekly section to be arranged. EXAM GROUP: 5
Focusing mainly on the United States and secondarily on Europe, this course will examine changing sexual cultures and their relation to political economy as well as to gender norms from the 17th through 20th centuries. The emergence and ascendance of the concepts of sexuality, heterosexuality and homosexuality will be examined through intellectual and social history.

[History 1465 (formerly History 1650b). The United States in the World, since 1900]

Catalog Number: 4745

Erez Manela

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

This course provides a broad-ranging view of U.S. interactions with the wider world from the Spanish-American War through 9/11. Topics we explore include war, international politics, economic relations, the role of ideology, cultural influences, globalization, and non-state actors. *Note:* Expected to be given in 2011–12. This course, when taken for a letter grade, meets the General Education requirement for The United States in the World or the Core area requirement for Historical Study A. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past.

History 1495 (formerly History 1672). The US in the 1960s

Catalog Number: 5900

Lisa M. McGirr

Half course (fall term). M., W., at 11, and a weekly section to be arranged. 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 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.

Note: This course, when taken for a letter grade, meets the Core area requirement for Historical Study B.

Cross-listed Courses

African and African American Studies 118. The History of African Americans From the Slave Trade to the Great Migration

[Ethical Reasoning 12. Political Justice and Political Trials]

***History and Literature 90af. Mexican American Crossings - (New Course)**

***History and Literature 90l. Stories of Slavery and Freedom**

***History and Literature 90o. Native American Literature: Narrations of Nationhood**

***History and Literature 90u. Culture in Depression-Era America**

History of Science 132. This Land Is Your Land: A Survey of American Environmental History

[*Studies of Women, Gender, and Sexuality 1200fh. Our Mothers, Ourselves: Postwar American Feminist Thought]

[United States in the World 14 (formerly Historical Study B-40). Pursuits of Happiness:



Ordinary Lives in Revolutionary America]

[United States in the World 16 (formerly Historical Study A-86). Men and Women in Public and Private: the US in the 20th Century]

[United States in the World 19. American Food: A Global History]

[United States in the World 25 \(formerly Historical Study B-61\). The Warren Court and the Pursuit of Justice, 1953-1969](#)

[United States in the World 28 (formerly Historical Study B-43).

Slavery/Capitalism/Imperialism: The US in the Nineteenth Century]

[United States in the World 30. Tangible Things: Harvard Collections in World History - \(New Course\)](#)

Primarily for Graduates

[History 2400 \(formerly History 2600\). Readings in Colonial and Revolutionary America: Proseminar](#)

Catalog Number: 9176

Laurel Thatcher Ulrich

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

An introduction to scholarly literature on colonial and revolutionary America. Required for History Department graduate students specializing in US history. Open to those from other fields or programs.

[History 2402. American Food: Seminar]

Catalog Number: 1656 Enrollment: Limited to 15.

Joyce E. Chaplin

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

From the starving time at Jamestown to present-day concerns over obesity, food has been central to the American experience. But what is American about American food? Students will address that question through independent research.

Note: Expected to be given in 2011–12.

[History 2403. Harvard Collections in World History: Seminar]

Catalog Number: 72039 Enrollment: Limited to 15.

Laurel Thatcher Ulrich and Ivan Gaskell

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

Participants in the seminar will explore Harvard's vast collections of tangible things, from rocks to medical specimens to works of art. They will also design and develop an undergraduate General Education course that will employ objects to teach history.

Note: Expected to be given in 2011–12.

[History 2405. Politics, Social Life, and Law in Jeffersonian America: Seminar]

Catalog Number: 41698 Enrollment: Limited to 20.

Annette Gordon-Reed (Law School)

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

This seminar examines politics, law, and social life in the United States from 1776 to 1828, discussing well-known members of the founding generation while considering the role of



women, enslaved people, and the working class.

Note: Expected to be given in 2011–12. Open to advanced undergraduates with permission of instructor. Offered jointly with the Law School as LAW-98055A.

[History 2442 (formerly History 2602). Readings in the History of the U.S. in the 19th Century: Proseminar]

Catalog Number: 2383 Enrollment: Limited to 12.

Instructor to be determined

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

The second in the sequence of three proseminars required of all graduate students in American history and open to graduate students in other history fields and other departments as space permits.

Note: Expected to be given in 2011–12.

History 2450. The History of Education in the United States: Seminar - (New Course)

Catalog Number: 91462

Julie A. Reuben (Education School)

Half course (fall term). Tu., 1–4. EXAM GROUP: 15, 16, 17

This course examines major issues in the development of schooling from the Colonial period to the present.

Note: Offered jointly with the Graduate School of Education as A-418.

[*History 2461 (formerly *History 2601). The US in the 20th Century: Seminar]

Catalog Number: 1270 Enrollment: Limited to 12.

Lizabeth Cohen

Half course (fall term). Hours to be arranged.

Research on topics in 20th-century US history.

Note: Expected to be given in 2011–12.

Prerequisite: Permission of instructor.

History 2462 (formerly History 2607). Readings in the U.S. in the 20th Century: Proseminar

Catalog Number: 2931

Nancy F. Cott

Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17

Readings in recent monographs as well as older historiography, covering a wide range of 20th-century topics. This proseminar is required of all History graduate students focusing on the United States.

[History 2463 (formerly History 2661). Graduate Readings in 20th-Century African-American History: Seminar]

Catalog Number: 9004 Enrollment: Limited to 10.

Evelyn Brooks Higginbotham

Half course (fall term). Hours to be arranged.

Covers key literature on themes and developments shaping the national experience of African



Americans from Redemption to the emerging multi-racial Republic.

Note: Expected to be given in 2011–12.

History 2465hf. North America in Global Perspective: Seminar - (New Course)

Catalog Number: 43895

Sven Beckert and Erez Manela

Half course (throughout the year). Tu., 4–6. EXAM GROUP: 18

The history of North America in global perspective. How do major events and themes appear if we follow strands of causes and consequences and trace connections around the globe, rather than stopping at water's edge?

[*History 2470hf (formerly *History 2640hf). Workshop in 20th-Century US History]

Catalog Number: 0565

Lizabeth Cohen

Half course (throughout the year). Hours to be arranged.

For dissertation writers only.

Note: Expected to be given in 2011–12.

Prerequisite: Permission of the instructor.

History 2480hf (formerly History 2650hf). The Political Economy of Modern Capitalism: Seminar

Catalog Number: 3719

Sven Beckert and Christine Desan (Law School)

Half course (throughout the year). M., 4–6. EXAM GROUP: 9

A year-long research and reading course on the history of capitalism during the past 300 years.

Note: Offered jointly with the Law School as 98060A-1FS.

History 2495. Twentieth-Century Politics and Social Movements: Seminar - (New Course)

Catalog Number: 46932

Lisa M. McGirr

Half course (spring term). Th., 2–4.

Seminar culminating in the production of an article length essay based on primary research.

Students will conduct research into significant topics at the intersection of the state and civil society in the twentieth-century United States.

Cross-listed Courses

African and African American Studies 218. Topics in African American History

***American Civilization 200 (formerly *American Civilization 370). Major Works in the History of American Civilization**

[*American Civilization 201 (formerly *American Civilization 371). Themes in the History of American Civilization]

***Economics 2339. Research in Economic History**

Latin American History



For Undergraduates and Graduates

History 1505. Mexico and the Difficulties of Rule: A Historical Inquiry

Catalog Number: 60965

Sergio Silva-Castañeda

Half course (spring term). Tu., Th., at 1. EXAM GROUP: 15

This is a survey of Mexican history since 1810 that focuses on the development, successes and failures of the Mexican state. This course seeks to use history as a tool to understand recent controversies about the viability of the Mexican state, and its relation with economic development, political mobilization and organization, social unrest, cultural developments, international relations, natural disasters, and public health.

History 1507. Mexico's Indigenous Communities: Their Lands and Local Histories, 1500 to 2010: Conference Course - (New Course)

Catalog Number: 80593

Ethelia Ruiz

Half course (fall term). Tu., 2-4. EXAM GROUP: 16, 17

This course, designed for advanced or ambitious undergraduates as well as graduate students, will analyze how Mesoamerican Indian pueblos actually used local history and legal strategies over five centuries, with a focus on a series of individual cases and their historical context.

Cross-listed Courses

***History and Literature 90af. Mexican American Crossings - (New Course)**

Societies of the World 30. Moctezuma's Mexico: Then and Now

Societies of the World 34 (formerly Foreign Cultures 46). The Caribbean: Globalization, Socio-Economic Development & Cultural Adaptation

Asian, African, and Middle Eastern History

For Undergraduates and Graduates

History 1617. Mainland Southeast Asia: From Colonies to Independent Nations: Conference Course - (New Course)

Catalog Number: 12431 Enrollment: Limited to 15.

Hue-Tam Ho Tai

Half course (spring term). Th., 2-4. EXAM GROUP: 16, 17

The course covers the history of the countries of mainland Southeast Asia from the time Britain acquired control of Burma in 1824 to the Bandung Conference of 1955. Topics include the divergent approaches of Britain and France to colonial rule, the place of minorities (including overseas Chinese) in the societies and economies of the region, the impact of the Great Depression and the different movements for independence.

Note: This course, when taken for a letter grade, meets the Core area requirement for Foreign Cultures.



History 1618. Telling Lives in Asia: Conference Course

Catalog Number: 9771 Enrollment: Limited to 15.

Hue-Tam Ho Tai

Half course (fall term). M., 2–4. EXAM GROUP: 7, 8

Using sources ranging from diaries and memoirs to biographies, autobiographies, records of interrogations, resumes and self-criticisms, this course will explore the ways in which individuals make sense of their lives and the lives of others in Asia. Through the examination of the themes and tropes deployed in stories of men and women both famous and ordinary, we will explore the relationship between self, nation, and narration.

[History 1619 (formerly History 1820). Premodern Vietnam]

Catalog Number: 4581

Hue-Tam Ho Tai

Half course (fall term). Hours to be arranged.

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.

Note: Expected to be given in 2011–12.

History 1620 (formerly History 1821). Modern Vietnam

Catalog Number: 8192

Hue-Tam Ho Tai

Half course (fall term). M., W., (F.), at 10. EXAM GROUP: 3

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.

Note: This course, when taken for a letter grade, meets the Core area requirement for Foreign Cultures.

History 1621. Tokyo: History and the City, 1600-2000 - (New Course)

Catalog Number: 77224

Emer Sinead O'Dwyer

Half course (fall term). M., W., at 11, and a weekly section to be arranged. EXAM GROUP: 4

This course charts the history of one of the world's first metropolises. From shogunal capital in the early seventeenth century to global commerce center in the twenty-first, Edo/Tokyo will be examined from political, economic, social, and cultural angles to question familiar assumptions about the course and nature of modernity.

[History 1623 (formerly History 1851). 20th-Century Japan]

Catalog Number: 8696

Andrew Gordon



Half course (fall term). Hours to be arranged.

Explores Japan's emergence as a world power and the Japanese experience of modernity. Examines 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. Concludes by considering historical context for issues of the present day ranging from economic crisis to tensions with Japan's Asian neighbors.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Historical Study A.

[History 1627. China in the Wider World, 1600-2000]

Catalog Number: 99548

Henrietta Harrison

Half course (spring term). Hours to be arranged.

This course examines China's modern history from the point of view of its interconnections with the rest of the world. It provides a general overview of the history of modern China, and some standard theoretical frameworks for China's foreign relations, but also considers the many different ways in which China has shared in world history ranging from environmental history and the spread of global religions, to international trade and the development of modern nationalism.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the General Education requirement for Societies of the World or the Core area requirement for Historical Study A. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past.

History 1630. Rising China? 1900 to the Present - (New Course)

Catalog Number: 18251

Felix A. Boecking

Half course (spring term). Tu., Th., at 10, and a weekly section to be arranged. EXAM GROUP: 12

This course will explore Chinese history in the 20th century, bringing together approaches of political, social, cultural, intellectual and economic history. From the end of imperial China to the People's Republic of China's accession to the World Trade Organization, via the tempestuous Republican era and the heydays of Maoism, this is a survey of modern Chinese history for anyone interested in understanding the history of one of the most important countries in today's world.

[History 1700 (formerly History 1904). The History of Sub-Saharan Africa to 1860]

Catalog Number: 5936

Emmanuel K. Akyeampong and Caroline M. Elkins

Half course (spring term). Hours to be arranged.

Survey of sub-Saharan Africa to 1860, with attention to the range of methodologies used in writing early African history, including oral history, archaeology, and anthropology. Will address themes of the impact of climate change on migration and settlement, trade and commerce, state formation, slavery, and the impact of Islam and Christianity on the continent. Will provide a methodological and historiographical framework in which more specific historical processes and events may be placed and understood.



Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Historical Study B.

History 1701 (formerly History 1907). West Africa from 1800 to the Present

Catalog Number: 4650

Emmanuel K. Akyeampong

Half course (fall term). Tu., Th., at 11, and a weekly section to be arranged. EXAM GROUP: 13

Explores the internal dynamics of West African states from 1800, and West Africa's relations with the wider world. 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.

Note: This course, when taken for a letter grade, meets the Core area requirement for Historical Study A.

History 1702 (formerly History 1923). Violence, Substances and Mental Illness: African Perspectives: Conference Course

Catalog Number: 9704 Enrollment: Limited to 15.

Emmanuel K. Akyeampong and Arthur Kleinman

Half course (spring term). W., 2–4. EXAM GROUP: 7, 8

An introduction to African perspectives on mental illness, exploring the development and practice of psychiatry as a medical field in Africa, examining the grey areas within psychiatric knowledge, and engaging the ongoing debates about the interface between race, culture and psychiatry. Will review African therapeutic systems; witchcraft, causation and mental health; substance abuse; violence and mental illness; and more recent links between HIV/AIDS, loss and depression.

[History 1711. A History of Southern Africa] - (New Course)

Catalog Number: 78269

Caroline M. Elkins

Half course (spring term). Hours to be arranged.

Introduction to the history of southern Africa from the settlement of the Bantu peoples to the present. Topics include early state formation, the rise of Shaka, and the Mfecane; impact of Dutch and British settlement; labor relations before and after the discovery of gold and diamonds; growth of ethnic and national consciousness; evolution of the apartheid state and African responses to racial segregation and oppression; Zimbabwean revolution; and liberation of Namibia from South African rule.

Note: Expected to be given in 2011–12.

History 1877a (formerly History 1877). History of the Near East, 600-1055

Catalog Number: 1770

Roy Mottahedeh

Half course (spring term). Tu., Th., at 12, and a weekly section to be arranged. EXAM GROUP: 14

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, and relations with Byzantium and the Latin West.

Note: Offered jointly with the Divinity School as 3954.

[History 1877b (formerly *History 78b). History of the Near East, 1055-1500: Conference Course]

Catalog Number: 3026 Enrollment: Limited to 20.

Roy Mottahedeh

Half course (fall 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 2011–12.

Prerequisite: 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 2011–12. This course, when taken for a letter grade, meets the Core requirement for Historical Study B.

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 Ottoman order in the Middle East and southeastern Europe in the early modern era and in the long nineteenth century until the demise of the state. Topics include changes in the conduct of state; social and religious movements; the impact of the new world economy and new trade routes; relations with Europe; emergence of nationalism; the 'Eastern Question.' Ethnic structure, rural society, urban popular culture, guilds, gender and family life are also examined. The importance of this era for understanding today's Middle East is stressed.

History 1891. Understanding the Middle East since 1945: The Basic Socio-Economic and Political Structures

Catalog Number: 56932

E. Roger Owen

Half course (fall term). Tu., Th., at 10, and a weekly section to be arranged. EXAM GROUP: 12

Examines recent political structures created in support of Arab presidents for life, including those



with provisions for a president's sons to succeed him. Comparisons also made with somewhat similar systems to be found in the major Arab monarchies, as well as contrasts with the different ones to be found in the two Arab sectarian republics, Iraq and Lebanon, and the three non-Arab Middle Eastern states, Israeli, Iran and Turkey.

Note: This course, when taken for a letter grade, meets the Core area requirement for Historical Study A.

Cross-listed Courses

[African and African American Studies 11. Introduction to African Studies](#)

[African and African American Studies 172. Protest, Rebellion and Power in East African History - \(New Course\)](#)

[Arabic 162. Introduction to the Modern Arab World I](#)

[Arabic 170. Introduction to the Arab World II: Politics, Religion, and Culture from World War I to Present](#)

[Chinese History 113. Society and Culture of Late Imperial China]

[Chinese History 118. Beyond the Great Wall: History of Relations between China and Inner Asia]

[Culture and Belief 41 \(formerly Historical Study A-67\). Gender, Islam, and Nation in the Middle East and North Africa](#)

[East Asian Studies 175. The History of Modern Science and Technology in East Asia](#)

[East Asian Studies 191. Zen: History, Culture, and Critique](#)

[Foreign Cultures 60. Individual, Community, and Nation in Vietnam](#)

[Historical Study B-68. America and Vietnam: 1945-1975]

[*History and Literature 90w. Europe and Africa: Colonial and Postcolonial Encounters](#)

[History of Science 110. Bubonic Plague and the Invention of the Middle East - \(New Course\)](#)

[Islamic Civilizations 145. Introduction to Islamic Philosophy and Theology]

[Japanese History 115. Religion and Society in Edo and Meiji Japan]

[Japanese History 120. Religion and Society in Twentieth-Century Japan]

[Japanese History 126. Shinto: Conference Course](#)

[Japanese History 145. Lady Samurai in Medieval Japan](#)

[Japanese History 146. Kyoto: The Capital of Medieval Japan](#)

[Japanese History 150. Early Modern Japan - \(New Course\)](#)

[Korean History 111. Traditional Korea]

[Korean History 118. Social History of Premodern Korea](#)

[Korean History 130. The Recurring Past--Early Korea and Northeast Asia as History and Identity - \(New Course\)](#)

[Persian 150r. Readings in Persian Historians, Geographers and Biographers](#)

[Societies of the World 12 (formerly Historical Study A-13). China: Traditions and Transformations]

[Societies of the World 13 \(formerly Historical Study A-14\). Japan in Asia and the World](#)

[Societies of the World 22. Asia in the Making of the Modern World](#)

[Societies of the World 26 (formerly Historical Study A-21). Africa and Africans: The Making of a Continent in the Modern World]

[Societies of the World 36 \(formerly Historical Study A-16\). Modern South Asia in Global](#)



History

Societies of the World 38. Pyramid Schemes: The Archaeological History of Ancient Egypt - (New Course)

Societies of the World 39 (formerly Historical Study B-52). Slavery and Slave Trade in Africa and the Americas

Societies of the World 43 (formerly Historical Study B-67). Japan's Modern Revolution

Primarily for Graduates

[History 2622 (formerly History 2822). Readings on the 1949 Revolution in China: Seminar]

Catalog Number: 0617

Henrietta Harrison

Half course (spring term). Hours to be arranged.

This course examines the social and political history of the communist revolution. It also provides an introduction to finding, reading and translating materials for 20th century Chinese history including newspapers, memoirs, diaries, published government documents and archives.

Note: Expected to be given in 2011–12. Open to qualified undergraduates.

Prerequisite: Reading knowledge of Chinese.

[History 2623 (formerly History 2823). Readings in Modern Chinese History: Proseminar]

Catalog Number: 3460

Henrietta Harrison

Half course (fall term). Hours to be arranged.

A graduate colloquium designed for students preparing for general examinations in modern Chinese history or interested in the historiography of modern China.

Note: Expected to be given in 2011–12.

History 2624a (formerly History 2624). Research Methods in Late Imperial Chinese

History I: Seminar

Catalog Number: 1863

Mark C. Elliott and Michael A. Szonyi

Half course (fall term). W., 6–9 p.m. EXAM GROUP: 9

Training in the use of a wide array of sources, methods, and reference tools for research in the history of late imperial China, focusing upon the reading and analysis of different types of Qing-era documents, official and unofficial. Students will write a research paper using documents provided in class. Reading knowledge of modern and literary Chinese required.

Note: Open to qualified undergraduates with permission of instructor.

Prerequisite: Chinese 106b or equivalent in foundation literary Chinese.

History 2624b (formerly History 2624). Research Methods in Late Imperial Chinese

History II: Seminar - (New Course)

Catalog Number: 84929

Mark C. Elliott and Michael A. Szonyi

Half course (spring term). Tu., 1–4.

Continued training in sources and methods for research in the history of late imperial China.



Students will use original sources to write a research paper on a topic of their choosing.

Prerequisite: History 2624a or consent of instructor.

***History 2651 (formerly *History 2851). Japanese History: Seminar**

Catalog Number: 5146 Enrollment: Limited to 15.

Andrew Gordon

Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17

Students write research papers on topics of their own choosing drawing on sources in Japanese, and other languages as appropriate.

Prerequisite: Reading knowledge of Japanese.

History 2653 (formerly History 2853). Historiography of Modern Japan: Proseminar

Catalog Number: 4442

Ian J. Miller

Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17

A critical introduction to the historiography of modern Japan, with emphasis on English-language scholarship.

History 2692 (formerly History 2892). Colonial and Post-Colonial Histories of South Asia: Seminar

Catalog Number: 8502

Sugata Bose

Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17

Analyzes trends and debates in historical research and writing on colonial and post-colonial South Asia.

History 2708 (formerly History 2908). Sources, Methodology, and Themes in African History: Seminar

Catalog Number: 5861 Enrollment: Limited to 12.

Emmanuel K. Akyeampong

Half course (fall term). W., 4–6. EXAM GROUP: 9

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.

Prerequisite: A graduate field on Africa.

[History 2709 (formerly History 2909). Themes in Modern Sub-Saharan African History: Proseminar]

Catalog Number: 5840 Enrollment: Limited to 14.

Caroline M. Elkins

Half course (fall term). Hours to be arranged.

An in-depth study of the major themes in sub-Saharan African history from the mid-19th century to the present, including the scholarship and debates on the changing relationship between Africa and the West.

Note: Expected to be given in 2012–13. Open to undergraduates with permission of instructor.



History 2805 (formerly History 2905). Gender and Sexuality: Comparative Historical Studies of Islamic Middle East, North Africa, South, and East Asia: Seminar

Catalog Number: 8070

Afsaneh Najmabadi

Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17

Informed by theories of gender and sexuality, this seminar investigates how historically notions of desire, body, sex, masculinity, femininity, gender and sexual subjectivities have formed and reformed in Islamicate cultures of the Middle East, North Africa, and South and East Asia.

History 2884. Topics in Ottoman Social and Cultural History: Seminar

Catalog Number: 3762

Cemal Kafadar

Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17

Topic to be announced.

Prerequisite: Reading knowledge of Turkish.

History 2885. Introduction to Archival Research in Ottoman History: Proseminar

Catalog Number: 3274

Cemal Kafadar

Half course (spring term). Tu., 1–4. EXAM GROUP: 15, 16, 17

A survey of archival collections related to Ottoman history. Introduction to the archives of the central government, pious endowments, provincial administrations, and court records.

Prerequisite: Reading knowledge of Turkish.

History 2886. Topics in Islamic History: Seminar

Catalog Number: 3470

Roy Mottahedeh

Half course (spring term). W., 3–5.

Topic to be announced.

History 2887b. Debates in the Political and Ideological History of the Middle East: Seminar

Catalog Number: 4102

E. Roger Owen

Half course (fall term). W., 1–3. EXAM GROUP: 6, 7

Major questions and debates in modern Arab political and ideological writings including Orientalism, Arab and local nationalism, religious revival, power and authority, and the difficulties of establishing democratic institutions.

Cross-listed Courses

Anthropology 2092. Early China: Archaeology and Texts

[Chinese History 200r (formerly Chinese History 200). Computational Methods for Historical Analysis]

[Chinese History 224. Introduction to T'ang and Sung Historical Sources]

[Chinese History 228. Introduction to Neo-Confucianism]

[Chinese History 232r (formerly Chinese History 232). Topics in Han History: Seminar]



[Chinese History 253r. Topics in Late Imperial History]

[Chinese History 255. Popular Religion in Late Imperial China: Historiography]

[Chinese History 256r (formerly Chinese History 256). Documents for the Study of Chinese Local History]

[Chinese History 260. Cultural Contacts between China and Europe in the Seventeenth Century Seen Through the Eyes of the Participants: Seminar - \(New Course\)](#)

[Chinese History 265r. Topics in the History of China and Inner Asia]

[Chinese History 267. Too Much Water or Too Little Water: Water and Man in the Chinese Environmental History: Seminar - \(New Course\)](#)

[East Asian Studies 205. Approaches to the Comparative History of Medicine and the Body]

[East Asian Studies 230r (formerly East Asian Studies 230). The History of East Asian Medicine: Seminar]

[East Asian Studies 250. From Propaganda to Testimony: East Asian History on Film: Seminar - \(New Course\)](#)

[East Asian Studies 255. Epistolary Histories: The Letter Exchange and the Mode of Communication in the Medieval World: Seminar - \(New Course\)](#)

[Japanese History 255. Topics in the Study of Shinto]

[Japanese History 260r. Topics in Japanese Cultural History]

[Japanese History 265. The Muromachi Period: Culture and Context]

[Japanese History 270. Early Modern Japanese History: Proseminar - \(New Course\)](#)

[Japanese History 271. "Compassion" in Early Modern Japan: Seminar - \(New Course\)](#)

***Korean 300. Reading and Research**

[Korean History 230r. Readings in Premodern Korean History]

[Korean History 240r. Selected Topics in Premodern Korean History: Seminar]

[Korean History 253r. Modern Korean History: Proseminar](#)

[*Korean History 255r. Modern Korean History: Seminar](#)

[Korean History 260r (formerly Korean History 260hfr). Readings in Modern Korean History]

[Korean History 270. Readings in Early Korean and Northeast Asian History: Seminar - \(New Course\)](#)

International History

For Undergraduates and Graduates

[History 1920 (formerly History 10c). A Global History of Modern Times]

Catalog Number: 1925

Charles S. Maier

Half course (spring term). Hours to be arranged.

A history of world societies from the end of the 18th century until the present. Covers such transnational forces as demographic change, religious revivals, and technological and economic development; comparative political transformations, such as the impact of revolutionary ideologies on rural and urban life; and the interactions between different global regions, whether as a consequence of imperialism and war, economic trade and investment, or cultural diffusion.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the



General Education requirement for Societies of the World or the Core area requirement for Historical Study A. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past.

History 1927. Islam and Modernity in Central Asia - (New Course)

Catalog Number: 53211

Eren Murat Tasar

Half course (fall term). M., W., (F.), at 12. EXAM GROUP: 5

Provides an understanding of the contemporary crisis in Central Asia - the 30-year long Afghan wars, the rise of the Taliban, 9/11, the collapse of Communism and emergence of a new Central Asian state system - though an analysis of the modern history of the region (Afghanistan, the Chinese Xinjiang region, Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, Uzbekistan). Topics include Islam as a religion, social system, and political ideology; foreign invasion and rule; empire, nation, and modernization.

History 1928. U.S. Empire and Interventions in the 20th Century - (New Course)

Catalog Number: 28866

Vernie Alison Oliveira

Half course (spring term). Tu., Th., at 11. EXAM GROUP: 13

Explores the political, economic, social, intellectual and cultural aspects of U.S. expansion overseas in the twentieth century. Examines reasons for expansion, the impact of American political and military actions on societies abroad, as well as the ramifications of these interventions on the United States.

History 1929. "The American Century"? The United States and Globalization after 1945 - (New Course)

Catalog Number: 13759

Vernie Alison Oliveira

Half course (fall term). Tu., Th., at 1. EXAM GROUP: 15

Examines the United States' role and participation in globalization after the Second World War. Studies the establishment and functioning of international institutions, the rise and transformation of the international economic order, and transnational links between the United States and the world within the context of America's unique place in international history after 1945.

***History 1955. Humans and Germs in History: Conference Course - (New Course)**

Catalog Number: 56629 Enrollment: Limited to 15.

Erez Manela

Half course (spring term). Tu., 2-4.

Infectious disease has shaped human history since the dawn of time. We will explore the impact of disease on historical events such as the development of early societies and civilizations, the European conquest of the New World, the American Revolution, and imperial expansion in Africa. We will also cover the role of disease and efforts to control it in the rise of modern medicine, nation-states, and international society.



***History 1964 (formerly *History 89e). International History: Empires and State systems, War, Peace and International Organizations: Conference Course**

Catalog Number: 7774 Enrollment: Limited to 18.

Charles S. Maier

Half course (fall term). W., 2–4. EXAM GROUP: 7, 8

A comparative approach to the history of international society, including sources of conflict and efforts at peacemaking, imperial and hegemonic regimes, the protection of minorities and human rights and enforcement of transnational norms. Readings will include theoretical as well as historical texts.

Note: History 1964 and 1965 are designed particularly for advanced undergraduates in the international history track of the concentration and graduate students preparing a general examination field in the history of international relations, Seminar credit can be earned by completion of an appropriate research paper and presentation to graduate members of the class.

[*History 1965 (formerly *History 89f). International History: States, Markets, and the Global Economy: Conference Course]

Catalog Number: 7148 Enrollment: Limited to 25.

Niall Ferguson and Charles S. Maier

Half course (spring term). Hours to be arranged.

International economic history and political economy, including strategies of economic development, international trade, migration, finance and monetary relations, based on both theoretical works and specific case studies, and focusing on the period from around 1700 to the present.

Note: Expected to be given in 2011–12. History 1964 and 1965 are designed particularly for advanced undergraduates in the international history track of the concentration and graduate students preparing a general examination field in the history of international relations.

History 1968. United Nations: A Global History: Conference Course - (New Course)

Catalog Number: 59002 Enrollment: Limited to 15.

Sugata Bose and Emma Rothschild

Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17

Explores the history of international organizations, including programs concerned with economic crises, economic development, security, and environment. Taught in conjunction with the development of a new web-based curriculum on United Nations history.

History 1970. Cold War Summits: Conference Course - (New Course)

Catalog Number: 97663 Enrollment: Limited to 15.

Serhii Plokhii

Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17

This course introduces students to major topics in Cold War history by looking at meetings between leaders of the two Cold War superpowers, the United States and the Soviet Union. It explores the role that summits, including the meetings between Truman, Churchill and Stalin at Potsdam in 1945, Kennedy and Khrushchev at Vienna in 1961, and Reagan and Gorbachev in Geneva in 1985, had on the origins and the outcome of the Cold War.

Cross-listed Courses



[***History and Literature 90ae. Border Crossings: Remaking European Identities - \(New Course\)**](#)

[***History and Literature 90af. Mexican American Crossings - \(New Course\)**](#)

[***History and Literature 90l. Stories of Slavery and Freedom**](#)

[***History and Literature 90w. Europe and Africa: Colonial and Postcolonial Encounters**](#)

[Societies of the World 19. Western Ascendancy: The Mainsprings of Global Power from 1600 to the Present]

[**Societies of the World 42. The World Wars in Global Context, 1905-1950 - \(New Course\)**](#)

Primarily for Graduates

[History 2906. International History: Seminar]

Catalog Number: 0453 Enrollment: Limited to 12.

Erez Manela

Half course (fall term). Hours to be arranged.

This course explores new approaches to the international history of the twentieth century. We probe problems of scope, theme, narrative strategy, research method, and sources, among others.

Note: Expected to be given in 2011–12.

[*History 2921. Western Ascendancy: Historiography and Pedagogy: Seminar]

Catalog Number: 89802 Enrollment: Limited to 15.

Niall Ferguson

Half course (fall term). Hours to be arranged.

The purpose of this graduate seminar is to get Teaching Fellows and other graduates to engage with the historiographical and pedagogical challenges of the new General Education course, Societies of the World 19: Western Ascendancy. Courses in Western Civilization are nowadays widely seen as outmoded and excessively Eurocentric. The aim of SW 19 is to address questions of global economic and political divergence in a fresh way, taking advantage of more recent literature on economic history, for example.

Note: Expected to be given in 2011–12.

Cross-listed Courses

[***American Civilization 200 \(formerly *American Civilization 370\). Major Works in the History of American Civilization**](#)

[Economics 2328. The Emergence of Modern Economic Growth: A Comparative and Historical Analysis]

[**Economics 2330. History and Human Capital**](#)

Courses in Reading and Research

Methodology

[***History 2965 \(formerly *History 2481\). The Scope of History: Seminar**](#)

Catalog Number: 4804 Enrollment: Limited to 15.

Mary D. Lewis



Half course (spring term). M., 2–4. EXAM GROUP: 7, 8

Explores the historical method by considering the wide array of "levels" of analysis or foci that historians adopt, from local and national to transnational, comparative and global; considers the relationship between scope and problematic.

Prerequisite: Graduate standing or permission of instructor.

[*History 2966 (formerly *History 2616). The Art and Craft of Historical Writing: Seminar]

Catalog Number: 4655

Jill M. Lepore

Half course (spring term). Hours to be arranged.

An intensive writing workshop and research seminar for history graduate students across field groups, divided into two parts, exposition, and narrative. Readings will be limited to essays on historical writing and samples of particularly effective academic prose.

Note: Expected to be given in 2011–12.

[*History 2967 (formerly *History 2912). What is History? Concepts, Practices, Critique: Seminar]

Catalog Number: 4766

Afsaneh Najmabadi

Half course (spring term). Hours to be arranged.

Offers a thematically structured critical introduction to key concepts, methods, and problems of historical practice and writing; examining the history of history, philosophies of history, the relationship of history to other disciplines.

Note: Expected to be given in 2011–12.

***History 2968 (formerly *History 2915). History and Economics: Proseminar**

Catalog Number: 1557

Emma Rothschild

Half course (fall term). W., 2–4. EXAM GROUP: 7, 8

Examines approaches to the history of economic thought and economic history by the exploration of particular topics, including the political economy of empire, information, and financial crisis.

[History 2970. Gender History: Proseminar]

Catalog Number: 24013

Nancy F. Cott

Half course (fall term). Hours to be arranged.

Readings in a wide range of historical works using gender analysis to reconsider such phenomena as citizenship, revolution, imperialism, nationalism, family, sexuality. Comparative U.S. and Europe, with selected readings about other areas.

Note: Expected to be given in 2011–12.

***History 3900 (formerly *History 3910). Writing History: Approaches and Practices**

Catalog Number: 1358

Erez Manela 4762 and Maya Jasanoff 5877



Half course (fall term). M., 2–4. EXAM GROUP: 7, 8

Required of and limited to first-year doctoral students in History, HMES, and those students in EALC who choose the History specialization.

Prerequisite: First year graduate students only.

Cross-listed Courses

Teaching Practicum

***History 3920hf. Colloquium on Teaching Practices**

Catalog Number: 5222

James T. Kloppenberg 3157

Half course (throughout the year). W., 3-5.

Required of and open only to all third-year history department graduate students.

Directed Reading and Research

***History 3000. Direction of Doctoral Dissertations**

Catalog Number: 4630

Emmanuel K. Akyeampong 3421, David R. Armitage 5023 (on leave 2010-11), Sven Beckert 2415, Thomas N. Bisson 1451, David Blackburn 3203 (on leave fall term), Ann M. Blair 2467 (on leave spring term), Peter K. Bol 8014 (on leave 2010-11), Sugata Bose 3960, Vincent Brown 4638 (on leave 2010-11), Joyce E. Chaplin 1058 (on leave 2010-11), John H. Coatsworth 3248, Elizabeth Cohen 3627 (on leave 2010-11), Nancy F. Cott 4261, Albert M. Craig 1847, Robert Darnton 5980, Emma Dench 5243, Caroline M. Elkins 3961, Drew Gilpin Faust 3857, Niall Ferguson 4938 (on leave 2010-11), Alison F. Frank 5313 (on leave 2010-11), Andrew Gordon 1891 (on leave fall term), Peter E. Gordon 3907, James Hankins 1239, Henrietta Harrison 5161 (on leave 2010-11), Evelyn Brooks Higginbotham 3517 (on leave 2010-11), Patrice Higonnet 2730 (on leave spring term), Morton J. Horwitz (Law School) 6272, Akira Iriye 1968, Maya Jasanoff 5877, Andrew Jewett 5878, Walter Johnson 5616 (on leave 2010-11), Christopher P. Jones 3204, Cemal Kafadar 2459, Edward L. Keenan 1825, Alexander Keyssar (Kennedy School) 4323, William C. Kirby 3128 (on leave 2010-11), Mark A. Kishlansky 2895, James T. Kloppenberg 3157, Philip A. Kuhn 8051, Jill M. Lepore 4830 (on leave 2010-11), Mary D. Lewis 4369, Charles S. Maier 7227 (on leave spring term), Erez Manela 4762, Terry D. Martin 2966, Michael McCormick 2849, Lisa M. McGirr 2543, Ian J. Miller 5880, Roy Mottahedeh 1454 (on leave fall term), Afsaneh Najmabadi 4052, Kelly A. O'Neill-Uzgiris 5881 (on leave 2010-11), E. Roger Owen 1028 (on leave spring term), Steven Ozment 6197, Serhii Plokhii 4454, Michael J. Puett 1227, Julie A. Reuben (Education School) 4428, Emma Rothschild 5001, Daniel L. Smail 5343, David Smith (Wilfrid Laurier University) 5904, Rachel St. John 5328 (on leave 2010-11), Michael A. Szonyi 4842, Roman Szporluk 3033, Hue-Tam Ho Tai 6079, Stephan Thernstrom 4141, Trygve Van Regenmorter Throntveit 6066, Laurel Thatcher Ulrich 1886, and John Womack, Jr. 1863

***History 3010. Reading and Research**

Catalog Number: 3424

Asad A. Ahmed 5567, Emmanuel K. Akyeampong 3421, David R. Armitage 5023 (on leave 2010-



11), Bernard Bailyn 1841, Sven Beckert 2415, Mario Biagioli 1756 (on leave fall term), Thomas N. Bisson 1451, David Blackburn 3203 (on leave fall term), Ann M. Blair 2467 (on leave spring term), Peter K. Bol 8014 (on leave 2010-11), Sugata Bose 3960, Vincent Brown 4638 (on leave 2010-11), Steven C. Caton 2307, Joyce E. Chaplin 1058 (on leave 2010-11), John H. Coatsworth 3248, Elizabeth Cohen 3627 (on leave 2010-11), Kathleen M. Coleman 2289, Nancy F. Cott 4261, Robert Darnton 5980, Emma Dench 5243, Charles Donahue, Jr. (Law School) 2650, Carter J. Eckert 1178, Caroline M. Elkins 3961, Mark C. Elliott 3329, Drew Gilpin Faust 3857, Niall Ferguson 4938 (on leave 2010-11), Francis Fiorenza (Divinity School) 2735, Alison F. Frank 5313 (on leave 2010-11), Ivan Gaskell 3174, Andrew Gordon 1891 (on leave fall term), Peter E. Gordon 3907, Annette Gordon-Reed (Law School) 6394, Peter A. Hall 7272 (on leave fall term), James Hankins 1239, Henrietta Harrison 5161 (on leave 2010-11), Evelyn Brooks Higginbotham 3517 (on leave 2010-11), Patrice Higonnet 2730 (on leave spring term), Morton J. Horwitz (Law School) 6272, David Howell 6747, Akira Iriye 1968, Maya Jasanoff 5877, Andrew Jewett 5878, Walter Johnson 5616 (on leave 2010-11), Christopher P. Jones 3204, Cemal Kafadar 2459, Edward L. Keenan 1825, Alexander Keyssar (Kennedy School) 4323, Sun Joo Kim 3821 (on leave 2010-11), William C. Kirby 3128 (on leave 2010-11), Mark A. Kishlansky 2895, James T. Kloppenberg 3157, Philip A. Kuhn 8051, Jill M. Lepore 4830 (on leave 2010-11), Mary D. Lewis 4369, Charles S. Maier 7227 (on leave spring term), Erez Manela 4762, Terry D. Martin 2966, Michael McCormick 2849, Lisa M. McGirr 2543, Ian J. Miller 5880, Roy Mottahedeh 1454 (on leave fall term), Afsaneh Najmabadi 4052, Kelly A. O'Neill-Uzgiris 5881 (on leave 2010-11), E. Roger Owen 1028 (on leave spring term), Steven Ozment 6197, Richard Pipes 1827, Serhii Plokhii 4454, Michael J. Puett 1227, Julie A. Reuben (Education School) 4428, Emma Rothschild 5001, Daniel L. Smail 5343, Rachel St. John 5328 (on leave 2010-11), Michael A. Szonyi 4842, Roman Szporluk 3033, Hue-Tam Ho Tai 6079, Stephan Thernstrom 4141, Laurel Thatcher Ulrich 1886, John Womack, Jr. 1863, and Jan Ziolkowski 7275

Half course (fall term; repeated spring term). Fall: Tu., 3–5; F., 1–3; Spring: Th., 2–4; F., 1–3. Instructors listed above under History 3010 supervise individual work in preparation for the General Examination for the PhD degree.

Note: Limited to candidates for the PhD who are in residence, who have been for a year in residence, and who are in good standing in the Graduate School. May ordinarily be taken only in preparation for a field (or fields) to be examined on the General Examination. May not be counted toward the AM degree except by permission of the Department.

History and Literature

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Members of the Committee on Degrees in History and Literature



Leah Price, Professor of English, Harvard College Professor (*Chair*)
 David R. Armitage, Lloyd C. Blankfein Professor of History (*on leave 2010-11*)
 Robin M. Bernstein, Assistant Professor of Studies of Women, Gender, and Sexuality and of History and Literature (*on leave 2010-11*)
 Steven Biel, Senior Lecturer on History and Literature (*on leave fall term*)
 Ann M. Blair, Henry Charles Lea Professor of History, Harvard College Professor (*on leave spring term*)
 Lisa T. Brooks, Assistant Professor of History and Literature and of Folklore and Mythology
 Janet Browne, Aramont Professor of the History of Science, Harvard College Professor
 Glenda R. Carpio, Professor of English and of African and African American Studies
 Daniel G. Donoghue, John P. Marquand Professor of English
 James Engell, Gurney Professor of English Literature and Professor of Comparative Literature (*on leave 2010-11*)
 Jeanne A. Follansbee, Senior Lecturer on History and Literature (*Director of Studies in History and Literature*)
 Virginie Greene, Professor of Romance Languages and Literatures, Harvard College Professor
 Maya Jasanoff, John L. Loeb Associate Professor of the Social Sciences, Professor of History
 James T. Kloppenberg, Charles Warren Professor of American History
 Louis Menand, Anne T. and Robert M. Bass Professor of English (*on leave fall term*)
 Jennifer L. Roberts, Professor of History of Art and Architecture
 Doris Sommer, Ira Jewell Williams, Jr. Professor of Romance Languages and Literatures and of African and African American Studies
 Maria Tatar, John L. Loeb Professor of Germanic Languages and Literatures and of Folklore and Mythology (*on leave 2010-11*)
 Joanne van der Woude, Assistant Professor of English and of History and Literature (*on leave 2010-11*)

Other Faculty Offering Instruction in the History and Literature Program

Erin Royston Battat, Lecturer on History and Literature
 Kevin Brian Birmingham, Lecturer on History and Literature, Preceptor in Expository Writing
 George Holt Blaustein, Lecturer on History and Literature
 Lauren Elizabeth Brandt, Lecturer on History and Literature
 Eoin Francis Cannon, Lecturer on History and Literature
 Stephanie Lin Carlson, Lecturer on History and Literature
 Sarah Anne Carter, Lecturer on History and Literature
 Sarah Rose Cole, Lecturer on History and Literature
 Antonio Cordoba, Lecturer on History and Literature
 Anna C. Deeny, Lecturer on History and Literature
 Nenita Ponce de Leon Elphick, Lecturer on History and Literature
 Sean J. Gilsdorf, Lecturer on History and Literature
 Tamara Griggs, Lecturer on History and Literature
 Katrina Maria Hagen, Lecturer on History and Literature
 Sharon L. Howell, Lecturer on History and Literature
 Joshua Humphreys, Lecturer on History and Literature
 Christina Dzin Kim, Lecturer on History and Literature



Hassanally Ladha, Lecturer on History and Literature
Eric D. Larson, Lecturer on History and Literature
Ian K. Lekus, Lecturer on History and Literature
Barbara K. Lewalski, William R. Kenan, Jr. Professor of History and Literature and of English, Emerita
Sally Livingston, Lecturer on History and Literature, Lecturer on Comparative Literature
Timothy P. McCarthy, Lecturer on History and Literature
Annie Mcclanahan, Lecturer on History and Literature
Paige L. Meltzer, Lecturer on History and Literature
Mo Moulton, Lecturer on History and Literature
James S. Murphy, Lecturer on History and Literature
Megan K. Nelson, Lecturer on History and Literature
John D. Ondrovicik, Lecturer on History and Literature
Phoebe Francesca Putnam, Lecturer on History and Literature
Amy L. Spellacy, Lecturer on History and Literature
Teresa Villa-Ignacio, Lecturer on History and Literature
Juliet Clare Wagner, Lecturer on History and Literature

Undergraduate Seminars

These seminars exploring the interdisciplinary study of History and Literature are restricted to undergraduates and have enrollments limited to 15. There are no prerequisites, and non-concentrators are welcome. Preference is given to History and Literature concentrators if space is limited.

***History and Literature 90ae. Border Crossings: Remaking European Identities - (New Course)**

Catalog Number: 73982 Enrollment: Limited to 15.

Sarah Rose Cole

Half course (fall term). M., 3–5.

Explores changing concepts of European identity, from the Enlightenment to the European Union. Focusing on "border zones" of Europe, we will examine topics such as the division between Eastern and Western Europe, the shifting boundaries between nations, and the position of outsiders—women, Jews, and Muslims—within European culture and politics. Primary texts include literary works (Pushkin, George Eliot, Günter Grass), political writings (Voltaire, Rousseau, J.S. Mill), historical documents, and recent films about Muslim immigrants.

***History and Literature 90af. Mexican American Crossings - (New Course)**

Catalog Number: 16259 Enrollment: Limited to 15.

Amy L. Spellacy

Half course (fall term). Th., 3–5.

Explores movement and exchange between Mexico and the United States during the twentieth century by examining literary texts, films, art, and historical sources. Will consider international events and policies that have inspired border-crossings. How does culture bleed across a border that still has political and economic significance? What sorts of mestizo identities are forged in



the geographical and cultural borderlands? Topics include the Mexican Revolution, Mexican artists in the United States, NAFTA, Narcotraffic, and tourism.

***History and Literature 90l. Stories of Slavery and Freedom**

Catalog Number: 5335 Enrollment: Limited to 15.

Timothy P. McCarthy

Half course (fall term). W., 3–5.

In the last generation, scholars have revolutionized our understanding of slavery and freedom in the modern Atlantic world. This sea-change has been the result of a major methodological shift: to view this history through the eyes of slaves rather than the eyes of masters. This course will examine the history of the "black Atlantic" through a diverse range of cultural texts--poetry, pamphlets, court cases, petitions, autobiographies, novels, speeches, and sermons--produced by slaves, free blacks, and abolitionists from the Age of Revolution to emancipation.

***History and Literature 90o. Native American Literature: Narrations of Nationhood**

Catalog Number: 3040 Enrollment: Limited to 15.

Lisa T. Brooks

Half course (fall term). W., 1–3.

How have Native American authors written the native nation? How has writing contributed to the process of imagining the space of the nation in the wake of colonization? Reaching across temporal boundaries from indigenous oral traditions, to the texts of the encounter and protest writing, to contemporary poetry, fiction, and political prose, this interactive course provides substantial grounding in the literature and the history of Native America and fosters critical discussion of contemporary issues.

***History and Literature 90u. Culture in Depression-Era America**

Catalog Number: 77449 Enrollment: Limited to 15.

Jeanne A. Follansbee

Half course (fall term). M., 1–3.

Examines the history and literature of the Depression-era United States. The course will examine a wide-range of cultural forms--documentary books, photography, fiction, film, radio, history, drama, anthropology, criticism--in order to explore how writers and critics represented the socio-economic crisis and envisioned social change.

***History and Literature 90w. Europe and Africa: Colonial and Postcolonial Encounters**

Catalog Number: 53436 Enrollment: Limited to 15.

Katrina Maria Hagen

Half course (fall term). M., 1–3.

This interdisciplinary seminar explores European colonialism in Africa in historical and literary perspective. The course asks how colonial/postcolonial encounters have shaped European and African societies and selves from the 19th century to the present. Topics include: racial science and imperialist ideology; colonial violence and resistance; gender and sexuality; economic and cultural consumption; decolonization; and travel and migration between Africa and Europe. Students participate in discussion, write short papers, and complete a research project and presentation.



***History and Literature 90y. London - Paris - Berlin - St. Petersburg: Capital Cities in Europe's Long Nineteenth Century**

Catalog Number: 17021 Enrollment: Limited to 15.

John D. Ondrovic

Half course (fall term). Tu., 2–4.

Moving chronologically from Paris in 1789 to St. Petersburg in 1917, this course examines the urban experience during Europe's long nineteenth century. Students will address the problems of nationalism, industrialization, sexuality, crime, and war through novels, poetry, memoirs, travel writing, political tracts, contemporary scholarly texts, and excellent secondary works. Class discussion will explore--and question--representations of these cities as emblems of particular periods of European history, primarily through direct comparison with other cities in other periods.

Tutorials, for Undergraduates Only

***History and Literature 91r. Supervised Reading and Research**

Catalog Number: 0334

Jeanne A. Follansbee and members of the Committee

Half course (fall term; repeated spring term). Hours to be arranged.

Note: History and Literature concentrators may arrange individually supervised reading and research courses; the permission of the Director of Studies is required for these courses.

***History and Literature 97. Tutorial — Sophomore Year**

Catalog Number: 1148

Jeanne A. Follansbee and members of the Committee

Half course (spring term). Hours to be arranged.

Introduction to interdisciplinary methods and to topics in students' chosen fields. Required of all concentrators. Open only to concentrators.

***History and Literature 98r. Tutorial — Junior Year**

Catalog Number: 2766

Jeanne A. Follansbee and members of the Committee

Half course (fall term; repeated spring term). Hours to be arranged.

An individually supervised study of selected topics in the student's chosen field in History and Literature.

Note: Ordinarily taken as two half courses by juniors. Required of all concentrators.

***History and Literature 99. Tutorial — Senior Year**

Catalog Number: 5362

Jeanne A. Follansbee and members of the Committee

Full course. Hours to be arranged.

Research and writing of the senior thesis; preparation for the oral exam.

Note: Ordinarily taken by seniors as a full course. Required of all concentrators.

Cross-listed Courses



***English 90cd. Reading Dickens: Seminar - (New Course)**

[*History 81a (formerly *History 1309). History in Early Modern Europe]

[*History 84l (formerly History 1666). The World of William James and Henry James]

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.

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

John Stauffer, Professor of English and of African and African American Studies (*Chair*) (*on leave spring term*)

Jennifer L. Roberts, Professor of History of Art and Architecture (*Acting Chair*)

David R. Armitage, Lloyd C. Blankfein Professor of History (*on leave 2010-11*)

Sven Beckert, Laird Bell Professor of History

Robin M. Bernstein, Assistant Professor of Studies of Women, Gender, and Sexuality and of History and Literature (*on leave 2010-11*)

Steven Biel, Senior Lecturer on History and Literature (*on leave fall term*)

Ann D. Braude, Senior Lecturer in American Religious History (*Divinity School*)

Lisa T. Brooks, Assistant Professor of History and Literature and of Folklore and Mythology

Lawrence Buell, Powell M. Cabot Professor of American Literature (*on leave 2010-11*)

Stephen Louis Burt, Professor of English (*on leave spring term*)

Daniel P. Carpenter, Allie S. Freed Professor of Government

Glenda R. Carpio, Professor of English and of African and African American Studies

Joyce E. Chaplin, James Duncan Phillips Professor of Early American History (*on leave 2010-11*)

Amanda Claybaugh, Professor of English

Lizabeth Cohen, Howard Mumford Jones Professor of American Studies (*on leave 2010-11*)

Nancy F. Cott, Jonathan Trumbull Professor of American History

Christine Desan, Professor of Law (*Law School*)

Henry Louis Gates, Jr., Alphonse Fletcher, Jr. University Professor

Claudia Goldin, Henry Lee Professor of Economics (*on leave fall term*)

R. Marie Griffith, John A. Bartlett Professor of New England Church History (*Divinity School*)

David Neil Hempton, Alonzo L. McDonald Family Professor of Evangelical Theological Studies (*Divinity School*)

Evelyn Brooks Higginbotham, Victor S. Thomas Professor of History and of African and



African American Studies (on leave 2010-11)

Morton J. Horwitz, Charles Warren Professor of American Legal History (*Law School*)

Andrew Jewett, Assistant Professor of History and of Social Studies

Walter Johnson, Winthrop Professor of History and Professor of African and African American Studies (*on leave 2010-11*)

Robin E. Kelsey, Shirley Carter Burden Professor of Photography (*on leave 2010-11*)

Randall L. Kennedy, Michael R. Klein Professor of Law (*Law School*)

Alexander Keyssar, Matthew W. Stirling, Jr. Professor of History and Social Policy at the Kennedy School of Gov't (*Kennedy School*)

James T. Kloppenberg, Charles Warren Professor of American History

Carrie Lambert-Beatty, John L. Loeb Associate Professor of the Humanities (*on leave 2010-11*)

Jill M. Lepore, David Woods Kemper '41 Professor of American History (*on leave 2010-11*)

Lisa M. McGirr, Professor of History

Daniel P. McKanan, Ralph Waldo Emerson Unitarian Universalist Association Senior Lecturer in Divinity (*Divinity School*)

Louis Menand, Anne T. and Robert M. Bass Professor of English (*on leave fall term*)

Charles J. Ogletree, Jesse Climenko Professor of Law (*Law School*)

Carol J. Oja, William Powell Mason Professor of Music

Julie A. Reuben, Professor of Education (*Education School*)

Leigh E. Schmidt, Charles Warren Professor of the History of Religion in America (*Divinity School*)

Marc Shell, Irving Babbitt Professor of Comparative Literature and Professor of English (*on leave 2010-11*)

Werner Sollors, Henry B. and Anne M. Cabot Professor of English Literature and Professor of African and African American Studies (*on leave spring term*)

Doris Sommer, Ira Jewell Williams, Jr. Professor of Romance Languages and Literatures and of African and African American Studies

Rachel St. John, Associate Professor of History (*on leave 2010-11*)

Jason W. Stevens, Assistant Professor of English

Laurel Thatcher Ulrich, 300th Anniversary University Professor

Roberto Mangabeira Unger, Roscoe Pound Professor of Law (*Law School*)

This program is interdisciplinary. Students are also referred to course offerings at the Design School, Harvard Graduate School of Education, Kennedy School, and Law School. For further information about the variety of course offerings in specific departments, consult the office of the Committee, Barker Center 225, 12 Quincy Street.

Primarily for Graduates

[*American Civilization 200 \(formerly *American Civilization 370\). Major Works in the History of American Civilization](#)

Catalog Number: 3662

R. Marie Griffith (Divinity School)

Half course (fall term). W., 10-12.

A survey of the field, with an emphasis on the range of interdisciplinary methods in the humanities, history, and social sciences.



Note: Required of first and second-year graduate students in American Civilization and open to others by permission of the instructor.

[*American Civilization 201 (formerly *American Civilization 371). Themes in the History of American Civilization]

Catalog Number: 6797

Lizabeth Cohen

Half course (fall term). Tu., 2–4.

Interdisciplinary study of one or several topics.

Note: Expected to be given in 2011–12. Required of first and second-year graduate students in American Civilization and open to others by permission of the instructor.

Graduate Courses

***American Civilization 398. Reading and Research**

Catalog Number: 1710

Sven Beckert 2415, Robin M. Bernstein 5411 (on leave 2010-11), Ann M. Blair 2467 (on leave spring term), Allan M. Brandt 3031, Vincent Brown 4638 (on leave 2010-11), Lawrence Buell 2655 (on leave 2010-11), Glenda R. Carpio 4408, Joyce E. Chaplin 1058 (on leave 2010-11), Amanda Claybaugh 5800, Lizabeth Cohen 3627 (on leave 2010-11), Nancy F. Cott 4261, Margaret Lee Crawford (Design School) 3934, Bradley S. Epps 2880, Philip J. Fisher 1470, William W. Fisher (Law School) 4257, Peter L. Galison 3239, Henry Louis Gates, Jr. 2899, Claudia Goldin 2667 (on leave fall term), R. Marie Griffith (Divinity School) 6338, David D. Hall (Divinity School) 2510, Janet E. Halley (Law School) 4431, Evelyn Brooks Higginbotham 3517 (on leave 2010-11), Morton J. Horwitz (Law School) 6272, Walter Johnson 5616 (on leave 2010-11), Geoffrey Jones (Business School) 5105, Mark D. Jordan (Divinity School) 6279, Despina Kakoudaki 3979, Robin E. Kelsey 4132 (on leave 2010-11), Alexander Keyssar (Kennedy School) 4323, James T. Kloppenberg 3157, Jill M. Lepore 4830 (on leave 2010-11), Erez Manela 4762, Thomas K. McCraw (Business School) 7371, Lisa M. McGirr 2543, Louis Menand 4752 (on leave fall term), Ingrid Monson 1591, Elisa New 2428 (on leave 2010-11), Susan E. O'Donovan 3962, Carol J. Oja 4599, Julie A. Reuben (Education School) 4428, Jennifer L. Roberts 4407, Leigh E. Schmidt (Divinity School) 6566, Werner Sollors 7424 (on leave spring term), Rachel St. John 5328 (on leave 2010-11), John Stauffer 1006 (on leave spring term), Maria Tatar 3645 (on leave 2010-11), Laurel Thatcher Ulrich 1886, Helen Vendler 7226 (on leave fall term), Adelheid Voskuhl 5569, and Joanne van der Woude 6069 (on leave 2010-11)

***American Civilization 399. Direction of Doctoral Dissertation**

Catalog Number: 8803

Sven Beckert 2415, Allan M. Brandt 3031, Lawrence Buell 2655 (on leave 2010-11), David L. Carrasco 4213, Joyce E. Chaplin 1058 (on leave 2010-11), Lizabeth Cohen 3627 (on leave 2010-11), Nancy F. Cott 4261, Philip J. Fisher 1470, William W. Fisher (Law School) 4257, Peter L. Galison 3239, Henry Louis Gates, Jr. 2899, David D. Hall (Divinity School) 2510, Evelyn Brooks Higginbotham 3517 (on leave 2010-11), Morton J. Horwitz (Law School) 6272, Walter Johnson 5616 (on leave 2010-11), Geoffrey Jones (Business School) 5105, Despina Kakoudaki 3979, Alexander Keyssar (Kennedy School) 4323, James T. Kloppenberg 3157, Jill



M. Lepore 4830 (on leave 2010-11), Erez Manela 4762, Thomas K. McCraw (Business School) 7371, Louis Menand 4752 (on leave fall term), Carol J. Oja 4599, Julie A. Reuben (Education School) 4428, Jennifer L. Roberts 4407, Charles E. Rosenberg 3784, Marc Shell 3176 (on leave 2010-11), Werner Sollors 7424 (on leave spring term), John Stauffer 1006 (on leave spring term), John R. Stilgoe 8032, Stephan Thernstrom 4141, Laurel Thatcher Ulrich 1886, Adelheid Voskuhl 5569, and Ruth R. Wisse 3177 (on leave fall term)

Cross-listed Courses

[**Aesthetic and Interpretive Understanding 13 \(formerly Spanish 180\). Cultural Agents African and African American Studies 131. African-American Literature to the 1920s**](#)

[African and African American Studies 133. Richard Wright and Zora Neale Hurston]

*African and African American Studies 301. Graduate Proseminar

[Comparative Literature 248. American Multilingual Literature in a Transnational Context]

[Economics 1356. Economics of Work and Family]

[***Government 2305. American Government and Politics: Field Seminar**](#)

[*History 74c. Bodily Functions: Histories of Bare Life and Bio-Power]

[*History 74e. North American Borderlands History]

[*History 74f. U.S. Environmental History]

[*History 84b. The American Revolution]

[***History 84c \(formerly *History 1610\). Confronting Objects/Interpreting Culture: Interdisciplinary Perspectives on North America**](#)

[*History 84l (formerly History 1666). The World of William James and Henry James]

[History 1330 (formerly History 1661). Social Thought in Modern America]

[**History 1457. History of American Capitalism**](#)

[*History 2340 (formerly *History 2662 & *History 2662hf). Readings in American Thought]

[**History 2400 \(formerly History 2600\). Readings in Colonial and Revolutionary America: Proseminar**](#)

[History 2402. American Food: Seminar]

[History 2403. Harvard Collections in World History: Seminar]

[History 2405. Politics, Social Life, and Law in Jeffersonian America: Seminar]

[History 2442 (formerly History 2602). Readings in the History of the U.S. in the 19th Century: Proseminar]

[*History 2461 (formerly *History 2601). The US in the 20th Century: Seminar]

[**History 2462 \(formerly History 2607\). Readings in the U.S. in the 20th Century: Proseminar**](#)

[History 2463 (formerly History 2661). Graduate Readings in 20th-Century African-American History: Seminar]

[**History 2465hf. North America in Global Perspective: Seminar - \(New Course\)**](#)

[*History 2470hf (formerly *History 2640hf). Workshop in 20th-Century US History]

[**History 2480hf \(formerly History 2650hf\). The Political Economy of Modern Capitalism: Seminar**](#)

[**History 2495. Twentieth-Century Politics and Social Movements: Seminar - \(New Course\)**](#)

[*History 2966 (formerly *History 2616). The Art and Craft of Historical Writing:



Seminar]

[History of Art and Architecture 172w. American Art and Modernity, 1865–1965]

[History of Art and Architecture 175k. American and European Art, 1945–1975]

[History of Art and Architecture 175w. Pop Art]

[History of Art and Architecture 197g. Colonial Art]

[*History of Art and Architecture 277s. Circa 1970]

[Music 218r. 20th-Century Music: Seminar]

[*Religion 2501. The Religious History of American Women: Seminar](#)

[Religion 2550. Women and Religion in Contemporary America: Seminar]

[Spanish 243. Foundational Fiction and Film](#)

[United States in the World 12 (formerly History of Art and Architecture 17y). American Encounters: Art, Contact, and Conflict, 1560-1860]

[United States in the World 15 \(formerly Social Analysis 66\). Is the American Racial Order Being Transformed?](#)

[United States in the World 16 (formerly Historical Study A-86). Men and Women in Public and Private: the US in the 20th Century]

History of Art and Architecture

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Department of History of Art and Architecture

Thomas B. F. Cummins, Dumbarton Oaks Professor of the History of Pre-Columbian and Colonial Art (*Chair*)

Francesca G. Bewer, Lecturer on History of Art and Architecture

Ruth Bielfeldt, Assistant Professor of History of Art and Architecture

Suzanne P. Blier, Allen Whitehill Clowes Professor of Fine Arts and Professor of African and African American Studies

Benjamin Buchloh, Andrew W. Mellon Professor of Modern Art

Joseph Connors, Professor of History of Art and Architecture (*on leave 2010-11*)

Frank Fehrenbach, Professor of History of Art and Architecture (*on leave 2010-11*)

Maria Elizabeth Gough, Joseph Pulitzer, Jr. Professor of Modern Art (*Director of Graduate Studies*)

Jeffrey F. Hamburger, Kuno Francke Professor of German Art and Culture

Ioli Kalavrezou, Dumbarton Oaks Professor of Byzantine Art

Robin E. Kelsey, Shirley Carter Burden Professor of Photography (*on leave 2010-11*)

Joseph Koerner, Victor S. Thomas Professor of History of Art and Architecture (*Director of Undergraduate Studies*)



Ewa Lajer-Burcharth, William Dorr Boardman Professor of Fine Arts
Carrie Lambert-Beatty, John L. Loeb Associate Professor of the Humanities (*on leave 2010-11*)
Neil Levine, Emmet Blakeney Gleason Professor of History of Art and Architecture
Yukio Lippit, Harris K. Weston Associate Professor of the Humanities
Serafín Moralejo, Fernando Zobel de Ayala Professor of Fine Arts
Gülru Necipoglu-Kafadar, Aga Khan Professor of Islamic Art
Alina A. Payne, Professor of History of Art and Architecture (*on leave fall term*)
Jennifer L. Roberts, Professor of History of Art and Architecture
David J. Roxburgh, Prince Alwaleed bin Talal Professor of Islamic Art History
Hugo van der Velden, Professor of History of Art and Architecture
Eugene Wang, Abby Aldrich Rockefeller Professor of Asian Art
Henri Zerner, Professor of History of Art and Architecture (*on leave spring term*)

Other Faculty Offering Instruction in the History of Art and Architecture

Noah R. Feldman, Bemis Professor of International La (*Law School*)
Gloria Ferrari Pinney, Professor of Classical Archaeology and Art, Emeritus
Irene J. Winter, William Dorr Boardman of Fine Arts, Emerita

Courses in the History of Art and Architecture undergraduate curriculum are structured as a three-tier system, consisting of a sequence of introductory courses, upper-level courses and departmental tutorials. Passage through the sequence from entry level to more advanced classes is encouraged—particularly for prospective concentrators.

History of Art and Architecture (HAA) 1, HAA 10, HAA 11 are general, conceptual introductions to World Art from pre-history to the present, History of Later Western Art, and History of World Architecture, respectively, each of which would serve as a point of entry into the courses and concentration of History of Art and Architecture.

History of Art and Architecture 12–89 constitute field-specific introductions to the major subfields of art history and their associated methodologies. These introductory courses are intended both for students in the concentration and for non-concentrators with an interest in a particular subject within History of Art and Architecture.

History of Art and Architecture 100–199, upper-level courses, tend to focus upon a particular problem or set of materials within a subfield.

Primarily for Undergraduates

[History of Art and Architecture 1. Landmarks of World Art & Architecture]

Catalog Number: 3951

Neil Levine and members of the Department

Half course (spring term). Tu., Th., at 12.

Examines major works of world art and architecture and the unique aesthetic, cultural, and historical issues that frame them. Members of the faculty will each lecture on an outstanding example in their area of expertise, covering various media and drawing from such diverse



cultures as modern Europe and United States, early modern Japan, Renaissance Europe, ancient Mesopotamia and China, and Precolumbian America. Sections will focus on significant issues in the analysis and interpretation of art and architecture.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the General Education requirement for Aesthetic and Interpretive Understanding or the Core area requirement for Literature and Arts B. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past.

History of Art and Architecture 10. The Western Tradition: Art Since the Renaissance

Catalog Number: 4988

Henri Zerner

Half course (fall term). Tu., Th., at 12. EXAM GROUP: 14

Concentrating on painting but with reference to other media, we examine art between the beginning of Modern Times around 1400 until the present. It is team taught and organized around specific topics each occupying one week. It is organized chronologically but does not attempt to be a comprehensive survey, but rather to highlight important issues, debates, innovations, specific works or artists.

Note: This course, when taken for a letter grade, meets the General Education requirement for Aesthetic and Interpretive Understanding or the Core area requirement for Literature and Arts B. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past.

History of Art and Architecture 11. Landmarks of World Architecture

Catalog Number: 3675

Neil Levine and members of the Department and the GSD faculty

Half course (spring term). Tu., Th., at 12; Tu., at 1; Tu., at 2; Tu., at 3; W., at 10; W., at 11; W., at 12; W., at 1; W., at 2; W., at 3; Th., at 10; Th., at 11; Th., at 12. EXAM GROUP: 14

Examines major works of world architecture and the unique aesthetic, cultural, and historical issues that frame them. Faculty members will each lecture on an outstanding example in their area of expertise, drawing from various periods and such diverse cultures as modern and contemporary Europe and America, early modern Japan, Mughal India, Renaissance and medieval Europe, and ancient Rome. Sections will develop thematically and focus on significant issues in the analysis and interpretation of architecture.

Note: This course, when taken for a letter grade, meet the General Education requirement for Aesthetic and Interpretive Understanding or the Core area requirements for Literature and Arts B. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past.

[History of Art and Architecture 12m. Monuments and Cities of the Islamic World: An Introduction]

Catalog Number: 0678

David J. Roxburgh

Half course (spring term). Hours to be arranged.

An introduction to key monuments and cities-Baghdad, Cairo, Cordoba, Isfahan, Istanbul, Samarqand-from the historical Islamic lands, ca. 650-1650 C.E., from Spain to India. Various building types are treated-e.g., mosques, palaces, schools, tombs, and shrines-as well as the



factors that shaped them, whether artistic, cultural, socio-religious, political, or economic.

Different methods of studying architecture are introduced in the course of the lectures.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the General Education requirement for Aesthetic and Interpretive Understanding or the Core area requirement for Literature and Arts B.

History of Art and Architecture 13x. Introduction to Greek and Roman Sculpture - (New Course)

Catalog Number: 90417

Ruth Bielfeldt

Half course (spring term). M., W., at 11.

Greek sculpture has shaped the way we look at art. The course will introduce you to the central works of Greek and Roman sculpture (800 BC - 300 AD), both free-standing and architectural, and discuss different ways of analysis and interpretation. Key themes of the lectures are the 'invention' of the human body, portrait and individualism, presenting the divine, Greek and non-Greek, emotions, art and beholder, lifelikeness, but also questions of color and materiality.

[History of Art and Architecture 18k. Introduction to Japanese Art]

Catalog Number: 7525

Melissa M. McCormick

Half course (spring term). Hours to be arranged.

Surveys the arts of Japan from the prehistoric period to the nineteenth century. The primary focus will be on Japanese painting, sculpture, and architecture, although calligraphy, garden design, ceramics, and prints will also be explored. Essential themes include the relationship between artistic production and Japanese sociopolitical development, Sino-Japanese cultural exchange, and the impact of religion, region, gender, and class on Japanese artistic practice.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts B.

[History of Art and Architecture 51p. Renaissance Architecture and the Rise of Classicism]

Catalog Number: 6427

Alina A. Payne

Half course (spring term). Tu., Th., at 1.

Charts the rise and dissemination of classicism in Renaissance Europe. Lectures focus on the development of the style, its origin in the fascination with antiquity, its response to shifts in social and political life, its mechanisms of transmission (travel, book and print culture) as well as phenomena of exchange (with the East), colonial export, and resistance to this pan-European trend.

Note: Expected to be given in 2011–12.

[History of Art and Architecture 55k. Northern Renaissance]

Catalog Number: 0473

Joseph Koerner

Half course (spring term). Hours to be arranged.

Explores the revolutionary achievements of Netherlandish, French, and German artists, 1400-1600, with consideration of related developments in Italy. Figures include, van Eyck, Bosch,



Durer, and Bruegel.

Note: Expected to be given in 2011–12.

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? Traversing different styles—Rococo, Neo-classicism, Impressionism, Abstraction—we discuss a range of modern media, from painting, sculpture, prints, and photography to video, installation, and performance art.

Note: This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts B.

***History of Art and Architecture 91r. Directed Study in History of Art and Architecture**

Catalog Number: 1028

Joseph Koerner and members of the Department

Half course (fall term; repeated spring term). Spring: W., at 11.

Note: Limited to juniors and seniors. Students wishing to enroll must petition the Head Tutor for approval, stating the proposed project, and must have the permission of the proposed instructor.

***History of Art and Architecture 97r. Sophomore Tutorial**

Catalog Number: 0935

Joseph Koerner and members of the Department

Half course (fall term; repeated spring term). Hours to be arranged.

Note: Required of concentrators.

***History of Art and Architecture 98ar. Advanced Tutorial**

Catalog Number: 1328

Joseph Koerner and members of the Department

Half course (fall term; repeated spring term). Hours to be arranged.

Note: Required of concentrators.

***History of Art and Architecture 98br. Advanced Tutorial**

Catalog Number: 3507

Joseph Koerner and members of the Department

Half course (fall term; repeated spring term). Hours to be arranged.

Note: Required of concentrators.

***History of Art and Architecture 99. Tutorial - Senior Year**

Catalog Number: 3118

Yukio Lippit and members of the Department

Full course. Fall: M., 3-5; Spring: Hours to be arranged. . EXAM GROUP: 8, 9



Note: Intended for honors candidates in History of Art and Architecture. Permission of the Head Tutor required.

For Undergraduates and Graduates

***History of Art and Architecture 100r. Sophomore Excursion Course**

Catalog Number: 9414 Enrollment: Limited to 17. Open only to sophomore concentrators in HAA.

Thomas B. F. Cummins and Yukio Lippit

Half course (spring term). M., 3–5. EXAM GROUP: 8, 9

This course introduces sophomore concentrators to on-site study of art and architecture through the case study of Cusco. Students will study the history of Cusco in both its capacity as the capital of the Inca Empire and as a post-conquest colonial urban center. The study of architecture, urbanism, and artistic production during the pre-Columbian and colonial eras will be intensively explored as prelude to a group excursion to visit the city at term end.

Note: Excursion is optional; not a requirement.

***History of Art and Architecture 101. The Making of Art and Artifacts: History, Material and Technique - (New Course)**

Catalog Number: 98483 Enrollment: Limited to 10.

Instructor to be determined

Half course (spring term). W., 1–3:30.

This course will focus on issues related to the making of works of art, and to their physical alteration over time. Through lectures and readings; close observation of a broad range of works in the Harvard Art Museums; and experimentation with materials and techniques, we will consider artists' material choices, resources, constraints and innovations, as well as problems of description, dating, authenticity, aging, and conservation.

Note: Except for the introductory session, this course will be held at the Harvard Art Museums' Strauss Center for Conservation interim site in Somerville.

[History of Art and Architecture 120n. Art of the Timurids in Greater Iran and Central Asia]

Catalog Number: 9252 Enrollment: Limited to 15.

David J. Roxburgh

Half course (fall term). Hours to be arranged.

Critical examination of the arts of the book, portable arts, and architecture sponsored by the Timurids (1370-1507), a dynasty founded by Timur (Tamerlane). Emphasis will also be given to primary written sources in translation.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts B.

History of Art and Architecture 124e. Architecture of the Early Modern Islamic Empires : Proseminar - (New Course)

Catalog Number: 26493 Enrollment: Limited to 15.

Gülru Necipoglu-Kafadar

Half course (fall term). W., 3–5. EXAM GROUP: 8, 9



Between the 16th and 18th centuries, three great empires ruled the Islamic lands from the Balkans to Bengal. The Mediterranean-based Ottomans, Safavids in Iran, and Mughals in India, developed visual cultures with distinctive architectural and ornamental idioms, originating from a shared Timurid heritage. The cities, monuments, and modes of ornament created in each empire are studied from aesthetic and contextual perspectives, with respect to religious orientations, imperial ideologies, and theories of dynastic legitimacy.

History of Art and Architecture 128. Topics in Arabic Art and Culture: The Arabic Book

Catalog Number: 6008 Enrollment: Limited to 12.

David J. Roxburgh

Half course (fall term). W., 1-3. EXAM GROUP: 6, 7

Examines the conception and production of illustrated texts in the Arabic language across various literary genres and subjects including astronomy, pharmacology, medicine, fine engineering, and belles-lettres. Emphasis given to period between 1100 and 1300 CE and to Iraq, Syria, the Levant, and Egypt. Dialogue with Christian Byzantine manuscript traditions is one of several recurring themes.

[History of Art and Architecture 131g. Pergamon: A Hellenistic Royal Residence and its Roman Afterlife]

Catalog Number: 8305

Ruth Bielfeldt

Half course (fall term). Hours to be arranged.

The marvelously preserved city of Pergamon is still the best example to study monarchic town planning in the Hellenistic world. The exertion of monarchic power on the urban texture of the newborn capital of the Pergamene kingdom: this explicitly political perspective will help us understand the extant archaeological remains, the urban layout, the hierarchically organized public space, the sanctuaries with their famous war memorials as well as the spaces of private life.

Note: Expected to be given in 2011–12.

History of Art and Architecture 137p. The Roman Dinner Party : Proseminar - (New Course)

Catalog Number: 38895

Ruth Bielfeldt

Half course (spring term). Th., 1–3. EXAM GROUP: 15, 16

The banquet is the key event of Roman elite society. It involved not only luxurious and well staged food and wine, but proper behavior, a decent setting, luxury furniture, entertainment and enchantment. The seminar discusses visual, archaeological and literary evidence to explore the sensual culture of the Roman dinner party - oscillating between strict social rules, intellectual table talks, the theatrical orchestration of high cuisine, revelry, eroticism and bodily excess.

[History of Art and Architecture 139x. Art and Life in Pompeii - Proseminar]

Catalog Number: 5600 Enrollment: Limited to 15.

Ruth Bielfeldt

Half course (fall term). F., 1-3.

Pompeii is more than the victim city of 79 A.D. The Seminar course focuses on the different



cultural stages of Hellenistic and Roman Pompeii (600 BC-79 AD). We will study the most important spaces of public and domestic life- the Forum, the main sanctuaries, the necropoleis, the town houses - in a diachronic perspective and interpret them as indicators of changing cultural, political and social affiliation.

Note: Expected to be given in 2011–12.

History of Art and Architecture 141k. Rome, Constantinople, Ravenna in the Light of Imperial Rule : Proseminar

Catalog Number: 0268 Enrollment: Limited to 15.

Ioli Kalavrezou

Half course (fall term). W., 1–3. EXAM GROUP: 6, 7

Will focus on the imperial art and architecture in these cities, from Constantine to Justinian.

History of Art and Architecture 142x. Italian Painting before the Black Death : Seminar - (New Course)

Catalog Number: 23866

Stephan S. Wolohojian

Half course (fall term). Th., 1–3.

An innovative and experimental period in Italian painting came before the plague of 1348.

Artists such as Giotto, Duccio, and the Lorenzetti brothers developed defining personal styles that responded to significant urban, religious, and other cultural changes. This seminar will focus on the close study of works in the collection of the Harvard Art Museums, to study the cult images, altarpieces, devotional panels, and other projects from this seminal moment in western painting.

History of Art and Architecture 143r (formerly *History of Art and Architecture 143m). The Art of the Court of Constantinople : Proseminar

Catalog Number: 4412

Ioli Kalavrezou

Half course (spring term). Th., 1–3. EXAM GROUP: 15, 16

Concentrates on art and architecture created for the court of Constantinople from the 9th to the 12th century. Focuses on objects and monuments, exploring their role in political, religious, and personal events.

[*History of Art and Architecture 146x. The Art of Devotion]

Catalog Number: 4493 Enrollment: Limited to 15.

Jeffrey F. Hamburger

Half course (spring term). Hours to be arranged.

Novel forms of devotional art & practice 1200-1500; monastic and lay, male and female, "high" and "low" piety. Close reading of religious literature, in translation; visits to local collections. No prior knowledge of medieval art required.

Note: Expected to be given in 2011–12.

***History of Art and Architecture 148g. Gothic Art and Architecture in England, 1100-1400 - (New Course)**

Catalog Number: 43514 Enrollment: Limited to 12.



Jeffrey F. Hamburger

Half course (spring term). Th., 3–5. EXAM GROUP: 17, 18

Architecture, sculpture, stained glass, metalwork and manuscripts in England in the High Middle Ages, with attention to issues of production, patronage, reception, and function.

Prerequisite: None, although at least one prior course in art history recommended.

[History of Art and Architecture 151k. Italian Artists as Competitors, ca. 1300-1700]

Catalog Number: 3100 Enrollment: Limited to 15.

Frank Fehrenbach

Half course (spring term). Hours to be arranged.

Artistic competitions, sometimes accompanied by deadly hostility among artists, played a central role in early modern Italy. Examples include the famous competitions between Ghiberti and Brunelleschi; Leonardo and Michelangelo; Cellini and Bandinelli; Bernini and Borromini.

Note: Expected to be given in 2011–12.

[History of Art and Architecture 152. Italian Renaissance Art]

Catalog Number: 9947

Frank Fehrenbach

Half course (spring term). Tu., Th., at 10.

This course focuses on major concepts, works, and the contexts of Italian painting and sculpture between roughly 1300 and 1600. The course provides a framework of main artistic developments on the peninsula, and concentrates on key notions like classicism, art and science, style, competition of the arts, uniqueness and reproduction, portraiture, and mannerism.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core requirement for Literature and Arts B.

[History of Art and Architecture 155p. Jan van Eyck and the Rise of Painting]

Catalog Number: 4715

Hugo van der Velden

Half course (fall term). Hours to be arranged.

This course will examine the work of Jan van Eyck and his contribution to the rise of Netherlandish painting in the fifteenth century. Special attention will be paid to the role of oil painting in comparison to other artistic media, such as goldsmith's work, enamel, embroidery, tapestry; art theory and the awareness of tradition; self-reference and reflectivity in works of art; multiple audiences and layers of meaning; use and function; music and the visual arts.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts B.

[History of Art and Architecture 159. Image and Text in 16th Century France]

Catalog Number: 5699 Enrollment: Limited to 15.

Henri Zerner and Tom Conley

Half course (fall term). Hours to be arranged.

Will examine the relation between visual and textual expression during the Renaissance in France, with emphasis on emblem books, and their impact on other genres.

Note: Expected to be given in 2011–12.



[*History of Art and Architecture 170g. The Grid]

Catalog Number: 9803 Enrollment: Limited to 10.

Neil Levine

Half course (spring term). Hours to be arranged.

Examines one of the most fascinating and contested devices underlying the design of buildings, cities, and works of art in general. Important since antiquity, the grid has become, in the modern era, a characteristic and prevalent way to organize space and form. Examples to be studied will range from the Spanish Law of the Indies and the Jeffersonian Land Survey to the use of the grid by Wright, Le Corbusier, Mies, LeWitt, Eisenman, and others.

Note: Expected to be given in 2011–12.

History of Art and Architecture 170r. Topics in 19th c. Art : Ingres and Delacroix : Proseminar

Catalog Number: 8207 Enrollment: Limited to 15.

Henri Zerner

Half course (fall term). M., 1–3. EXAM GROUP: 6, 7

Course topics will engage with the painting legacies of Ingres and Delacroix.

Note: Open to qualified undergraduates and graduates.

History of Art and Architecture 170s. Frank Lloyd Wright and the Modern City and Suburb :Proseminar

Catalog Number: 9224 Enrollment: Limited to 12.

Neil Levine

Half course (fall term). W., 3–5. EXAM GROUP: 8, 9

This course examines the relatively unstudied area of Wright's designs for the modern metropolis as a lens through which to understand the history of twentieth-century city planning and urban design as a whole. Subjects will range from the creation of the modern suburb, to the problem for designing for the automobile, to new concepts for revitalizing the downtown. Issues of theory, context (both physical and cultural), politics, criticism, and historical relevance will all be addressed.

[*History of Art and Architecture 170w. Before the Crash: The City in the 1920's : Seminar]

Catalog Number: 26796 Enrollment: Limited to 12.

Neil Levine

Half course (fall term). W., 3–5.

Examines the architecture and urbanism of the United States and Europe during the Roaring Twenties, or "crazy years," between the end of World War I and the onset of the Great Depression, when the modern city came under pressures for development unlike any before. Subjects to be investigated include the dominance and often extravagance of the skyscraper, impact of the automobile, problem of congestion, concept of regionalism, and growth of the suburb and sprawl.

Note: Expected to be given in 2011–12.

***History of Art and Architecture 171m. British Art in the Harvard Art Museum : Proseminar - (New Course)**



Catalog Number: 28153 Enrollment: Limited to 10.

David Bindman

Half course (fall term). M., 3–5.

The Harvard Art Museum has one of the finest collections of British art in the US, though it is little known because most of it cannot be lent. It is exceptionally strong in the earlier 19th century (Blake, Flaxman, Turner) and in the Pre-Raphaelites (Burne-Jones, Rossetti, G.F. Watts, Ruskin). The course will work towards an exhibition on a theme chosen by the class - probably as a website.

Note: Regular visits will be made to the Museum's temporary store in Somerville.

[*History of Art and Architecture 171x. Exoticism & Orientalism]

Catalog Number: 7006 Enrollment: Limited to 15.

Ewa Lajer-Burchard

Half course (spring term). Hours to be arranged.

Explores cultural and artistic engagement with the trope of the "other" in 18th and 19th century France. Different interpretive paradigms will be considered. Distinction between pre- and post-Napoleonic modes of curiosity emphasized. Artists will include: Watteau, Boucher, Liotard, Van Loo, Delacroix, Chasseriau, Gérôme, Renoir.

Note: Expected to be given in 2011–12.

[*History of Art and Architecture 172k. Photography and Labor in the 19th Century]

Catalog Number: 2099 Enrollment: Limited to 12.

Robin E. Kelsey

Half course (spring term). Hours to be arranged.

A consideration of the relationship between photography and labor from the Daguerreotype and Calotype to the first Kodak cameras. We will discuss issues of skill, art, social class, gender, industrialization, magic, and representation.

Note: Expected to be given in 2011–12.

[History of Art and Architecture 172w. American Art and Modernity, 1865–1965]

Catalog Number: 2227

Jennifer L. Roberts

Half course (fall term). F., at 10.

An introduction to developments in American art between the Civil War and the Cold War. Thematically focused lectures concentrate on such issues as the shifting status of the art object within an environment of proliferating consumer products, the incorporation of scientific and industrial processes into artistic practice, the continually renegotiated relationship between nationalism and abstraction, and new methods of understanding history and subjectivity in the face of urbanization, mechanized reproduction, and the mass media.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the General Education requirement for Aesthetic and Interpretive Understanding or the Core area requirement for Literature and Arts B. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past.

***History of Art and Architecture 173m. The Early Modern Artist**

Catalog Number: 7574 Enrollment: Limited to 12.



Ewa Lajer-Burcharth

Half course (fall term). Th., 3–5. EXAM GROUP: 17, 18

Explores the emergence of artistic individuality in French 18th-century art and culture. What was modern about the 18th-century artist? What were the criteria of artistic self-definition? Among the issues addressed: the cultural myth of the artist; artist vs. critic; artistic identity and the philosophical notions of the self; subjectivity, sexuality, and gender; the artist's touch; authorship; melancholia; eccentricity; the artist's body; fashion. Artists include: Watteau, Chardin, Fragonard, Vigée-Lebrun, David, Girodet. Museum trip(s).

[History of Art and Architecture 174g. European Modernism, 1895-1945]

Catalog Number: 81101

Maria Elizabeth Gough

Half course (spring term). Tu., Th., at 11.

This survey examines the dynamic relationship between European modernism and various fundamental processes and phenomena of modernization, such as the advent of mass culture and spectacle, the rise of utopian thinking and radical politics, and the widespread interrogation (among artists) of the nature of signification (how form produces meaning). Movements: Fauvism, Cubism, Expressionism, Futurism, Dada, de Stijl, Suprematism, Constructivism, Productivism, Bauhaus, New Objectivity, and Surrealism. Media: painting, drawing, sculpture, architecture, photography, and prints.

Note: Expected to be given in 2011–12.

[History of Art and Architecture 175k. American and European Art, 1945–1975]

Catalog Number: 6910

Benjamin Buchloh

Half course (spring term). M., W., at 12.

This course will examine artistic production in the US and Europe between 1945 and 1975 to clarify some of the most crucial questions of this thirty year period: How did post war visual culture repress or acknowledge the recent 'caesura of civilization' brought about by World War II?; how did the neo-avantgarde position itself with regard to the legacies of the avantgardes of the 1920s?; how did artistic production situate itself in relation to the newly emerging apparatus of Mass Media culture?

Note: Expected to be given in 2011–12.

[History of Art and Architecture 175w. Pop Art]

Catalog Number: 2172 Enrollment: Limited to 12.

Jennifer L. Roberts

Half course (spring term). Hours to be arranged.

The emergence of Pop art in the 1950s and 1960s, focusing on its challenges to prevailing standards of painting, sculpture, and photography, as well as its multifaceted engagements with postwar spectacles of information and advertising.

Note: Expected to be given in 2011–12.

[History of Art and Architecture 175y. Visual Culture of Weimar Germany (1919-1937)]

Catalog Number: 5473

Benjamin Buchloh



Half course (fall term). Tu., Th., at 1.

An account of the complex practices defining the avantgarde culture of Weimar Germany from the end of the empire to the beginning of fascism. Ranging from expressionism to Dadaism, from the Bauhaus to New Objectivity, particular emphasis will be given to the transition from painting to collage and photomontage, and to the new photographic culture in response to a rising massmedia culture.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts B.

***History of Art and Architecture 176m. Berlin & Moscow, 1918/1933 : Proseminar - (New Course)**

Catalog Number: 69109 Enrollment: Limited to 15.

Benjamin Buchloh and Maria Elizabeth Gough

Half course (spring term). W., 3–5. EXAM GROUP: 8, 9

A comparative examination of the two greatest cultural experiments of the early 20th century - Weimar Germany and the Soviet Union - and the extraordinary dialogue that took place between them. Major topoi include the proliferation and intersection of various dadas, constructivisms, and realisms; the concepts of estrangement and alienation; the rise of photomontage, photo-illustrated magazines, monumental photography, and new media technologies; theories of technological reproducibility and distribution; and the perennial question of the relationship between aesthetics and politics.

[History of Art and Architecture 178m. Cold War Photography]

Catalog Number: 8383 Enrollment: Limited to 15.

Robin E. Kelsey

Half course (spring term). Hours to be arranged.

This course will consider the intersection of photography and social history from 1945-1989 through an examination of key photographic practices, publications, exhibitions, and critical texts.

Note: Expected to be given in 2011–12.

[History of Art and Architecture 180x. Visible Sound: Chinese Art of Pathos]

Catalog Number: 3715

Eugene Wang

Half course (spring term). Hours to be arranged.

The course deals with a central question: why do Chinese history and art history give us different impressions? One is turbulent, the other largely peaceful. Were traditional Chinese artists indifferent to wars and unrests? If not, how did they register their strong emotions such as pathos through visual forms? How does the medium of ink painting and calligraphy convey pathos, which is arguably more amenable to sonic medium such as singing? Can images be vocal?

Note: Expected to be given in 2011–12. No prerequisite of either Chinese language or art history.

***History of Art and Architecture 181z (formerly History of Art and Architecture 281z). Chinese Art of the Ineffable - (New Course)**

Catalog Number: 11386 Enrollment: Limited to 12.

Eugene Wang



Half course (fall term). W., 1–3. EXAM GROUP: 6, 7

Tumultuous historical changes elicit strong responses, often producing the state of the ineffable. Explores the ways in which ink-and-brush painting sublimates historical experiences in articulating the ineffable through orchestration of its formal properties.

[History of Art and Architecture 186p. Post-Medium Art in Post-Socialist China]

Catalog Number: 50809 Enrollment: Limited to 12.

Eugene Wang

Half course (fall term). Tu., 1–3. EXAM GROUP: 15, 16

The course examines contemporary Chinese art in the throes of the post-medium condition since the 1980's. The eclipse of the Maoist utopian ideology and the rise of market economy in the age of globalization parallels the erosion of traditional medium purity (painting, sculpture, architecture, photography, etc.). Reorientation and repurposing visual mediums and the trans-media experimentations have created new platforms for staging contemporary Chinese experience and thinking outside the boxes, old and new.

Note: Expected to be given in 2011–12.

History of Art and Architecture 195m. Art and Landscape: Africa - (New Course)

Catalog Number: 95036

Suzanne P. Blier

Half course (fall term). M., 3–5. EXAM GROUP: 8, 9

This course looks at questions of the art, landscape, and environment in Africa, offering both a broad overview and focused analysis of related themes. Along with addressing core subject matter, students will also learn new, and revisit older, methodologies of engagement with it. No prior courses in Africa or landscape are required; in addition to core readings, there will be weekly writing or other assignments, and a final paper drawn from the latter.

***History of Art and Architecture 196. Contemporary Art in Africa : Proseminar**

Catalog Number: 8120 Enrollment: Limited to 15.

Suzanne P. Blier

Half course (spring term). M., 1–3. EXAM GROUP: 6, 7

Major art movements in 20th-century Africa as well as critical issues which have framed related discussions will be treated. Painting, sculpture, photography, graphic arts, architecture, and performance traditions will be explored with an eye toward both their unique African contexts and the relationship of these traditions to contemporary art movements in a more global perspective.

History of Art and Architecture 197. The Imperial Arts of the Inca and the Aztec

Catalog Number: 9976

Thomas B. F. Cummins

Half course (fall term). Tu., Th., at 10. EXAM GROUP: 12

This course concentrates on the art and architecture of the two ancient American civilizations, surveying the forms of representation used to establish imperial presence within the accepted vernacular of Mesoamerican and Andean artistic traditions. Special attention is given to the role of art as a means of expressing imperial claims to mythic and historic precedents, upon which political and economic expansion could be realized.



Note: This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts B or Foreign Cultures, but not both.

[History of Art and Architecture 197g. Colonial Art]

Catalog Number: 2623

Thomas B. F. Cummins

Half course (fall term). Hours to be arranged.

Art and Architecture of the 16th/17th c. in the Spanish New World. The making, the mapping, and imaging of the colonial city.

Note: Expected to be given in 2011–12.

History of Art and Architecture 199k. The Study of Architectural History : Critical Issues and Methodologies : Seminar - (New Course)

Catalog Number: 19833 Enrollment: Limited to 12.

Neil Levine and Alina A. Payne

Half course (spring term). Th., 3–5. EXAM GROUP: 17, 18

This course focuses on issues of method and ideology in the history, criticism, and theory of architecture through close readings of selected texts representing different periods and approaches to the subject. These include foundational works of the discipline as well as recent publications. Considering the various environmental, tectonic, spatial, interpretive, and professional dimensions of architecture, topics will range from theories of site, function, and meaning to means of representation, the client-architect relationship, and concepts of restoration.

Primarily for Graduates

[*History of Art and Architecture 206. Science and the Practice of Art History]

Catalog Number: 6180 Enrollment: Limited to 12.

Narayan Khandekar and staff

Half course (spring term). Hours to be arranged.

The course equips students with critical and informed approaches to the range, applications and ambiguities of instruments employed in the scientific, diagnostic investigation of artworks through lectures, discussions, and close examination of works from the Harvard Art Museums' collections

Note: Expected to be given in 2011–12.

***History of Art and Architecture 208g. The Architectural Imagination (Graduate Seminar in General Education) - (New Course)**

Catalog Number: 79675 Enrollment: Limited to 15.

K. Michael Hays (Design School) and Erika Naginski (Design School)

Half course (spring term). M., 1–3.

Addresses the architectural imagination as a mode of knowledge and medium of representation. Readings in history and philosophy; analysis of architectural projects. The seminar will design a General Education course on these themes for undergraduates.

Note: Offered jointly with the Graduate School of Design as Architecture 3435.



[History of Art and Architecture 222m. Architecture in the Early Modern Mediterranean World: A Cross-Cultural Perspective]

Catalog Number: 20595 Enrollment: Limited to 12.

Gülru Necipoglu-Kafadar and Alina A. Payne

Half course (fall term). Hours to be arranged.

Architecture of the eastern Mediterranean basin (at Italian, Ottoman, and Mamluk courts) with emphasis on cross-cultural encounters and transmission of the Romano-Byzantine heritage, science and technology, architectural practice, ornament, urban design, military, religious and domestic architecture.

Note: Expected to be given in 2011–12.

History of Art and Architecture 226s. Ottoman Architectural Culture and Urbanism in the Age of Sinan : Seminar - (New Course)

Catalog Number: 93122 Enrollment: Limited to 12.

Gülru Necipoglu-Kafadar

Half course (spring term). Th., 3–5. EXAM GROUP: 17, 18

Architectural production during the tenure of Ottoman chief court architect Sinan (1539-88) studied from critical and new methodological perspectives. Topics include aesthetics and identity, institutionalization of court architects, building practice, patronage, codes of decorum, textual sources.

***History of Art and Architecture 229p. Word and Image in Persian Painting : Seminar**

Catalog Number: 2342 Enrollment: Limited to 12.

David J. Roxburgh

Half course (spring term). M., 1–3. EXAM GROUP: 6, 7

Texts of the Persian literary tradition that were illustrated constitute our focus, including Firdawsi's *Shahnama* and Nizami's *Khamsa*. Study of word and image is staged through key examples to open new lines of inquiry.

[History of Art and Architecture 235g. The Roman House as Enlivened Space]

Catalog Number: 4809 Enrollment: Limited to 12.

Ruth Bielfeldt

Half course (spring term). Hours to be arranged.

Seminar addresses the culture of enlivenment in the late Republican/Early Imperial Campanian House, manifest in the figural and floral decoration of furniture and household objects, in statuary, and illusionistic wall paintings of garden landscapes and animate architecture.

Note: Expected to be given in 2011–12.

History of Art and Architecture 239x (formerly History of Art and Architecture 139j). Greek Myths on Roman Sarcophagi

Catalog Number: 1094 Enrollment: Limited to 12.

Ruth Bielfeldt

Half course (fall term). Th., 1–3. EXAM GROUP: 15, 16

In Imperial Rome Greek Myths enter a new sphere: tombs. But the mythological narratives decorating the monumental relief sarcophagi are more than a simple traditionalist repeating of old stories: their visual language becomes a medium for expressing core experiences in life and



death. Examines Roman sarcophagus imagery and interpret it in a contextual perspective, focusing on specific funerary contexts as well as the broader understanding of how death was conceptualized in Roman culture.

Note: Open to qualified undergraduates and graduates.

***History of Art and Architecture 240r. Topics in Byzantine Art : Materials and Materiality in Byzantine Art**

Catalog Number: 4109 Enrollment: Limited to 12.

Ioli Kalavrezou

Half course (spring term). W., 3–5.

Issues of materiality in Byzantine luxury arts, with attention to the techniques and aesthetics specific to medium and related issues of value, craftsmanship, and style. Close study of various objects including ivories, enamels and metalwork.

[*History of Art and Architecture 241n. Image-Text-Context]

Catalog Number: 1084 Enrollment: Limited to 12.

Jeffrey F. Hamburger

Half course (fall term). Hours to be arranged.

Topics in text and image in medieval manuscript illumination and the history of reading in Latin and vernaculars, making use of local collections (Houghton and Boston Public Library).

Note: Expected to be given in 2011–12.

***History of Art and Architecture 242. Issues of Interpretation in Medieval Art : Seminar**

Catalog Number: 7561 Enrollment: Limited to 12.

Jeffrey F. Hamburger

Half course (fall term). Th., 3–5. EXAM GROUP: 17, 18

A wide-ranging introduction to critical approaches to the study of medieval art, with emphasis on systems of signification, mixing historiography and methodology in a workshop format in which students help set the agenda.

History of Art and Architecture 245x. Jan van Eyck's Renaissance : Seminar - (New Course)

Catalog Number: 47801 Enrollment: Limited to 12.

Hugo van der Velden

Half course (spring term). M., 3–5. EXAM GROUP: 8, 9

Themes include: historical styles, archaism, innovation, epigraphy, the Ghent altarpiece, the rise of painting, function, ritual, context, endowments, saints, land, landscape, court, competition, art theory, painter's practice, paragone, polyphony, reflection, gold, embroidery, splendor, and Art.

[History of Art and Architecture 252k. The Age of Albrecht Durer]

Catalog Number: 3305 Enrollment: Limited to 12.

Joseph Koerner

Half course (fall term). Hours to be arranged.

Considers new directions in research on German Renaissance art with special emphasis on the question of "style".

Note: Expected to be given in 2011–12.



[History of Art and Architecture 253s. Art Theories of the Italian Renaissance]

Catalog Number: 78318 Enrollment: Limited to 12.

Frank Fehrenbach

Half course (fall term). Hours to be arranged.

Between 1430 and 1600, Italian art theorists provided the framework of the Western discourse on art. Each week, we will discuss one major treatise; readings will be based on the Italian texts.

Note: Expected to be given in 2011–12.

[*History of Art and Architecture 254g. Gianlorenzo Bernini and the Space of Sculpture]

Catalog Number: 6596 Enrollment: Limited to 12.

Frank Fehrenbach

Half course (fall term). Hours to be arranged.

Bernini's, "dream of the moving statue" (K. Gross) and his goal to, "bend marble like wax"; transformations of (urban, religious, domestic) space in the Baroque master's radiant sculptures.

Note: Expected to be given in 2011–12.

[*History of Art and Architecture 254p. The Invention of Portraiture]

Catalog Number: 6845 Enrollment: Limited to 12.

Frank Fehrenbach

Half course (spring term). Hours to be arranged.

Major moments of an enigmatic genre, from 13th century tomb sculpture to late 16th century experiments, with a focus on Italian Renaissance portraiture. Key concepts include similitude versus animation, gender, materiality, agency.

Note: Expected to be given in 2011–12. Open to graduate and advanced undergraduate students.

[History of Art and Architecture 263m. Moving Statues, Breathing Images - Enlivening and animation in Italian Renaissance and Baroque Art]

Catalog Number: 5014 Enrollment: Limited to 12.

Frank Fehrenbach

Half course (spring term). Hours to be arranged.

Enlivening was arguably the most famous topos in Early Modern art. We inquire of its implications in form, art theory, and history of science. Key terms include: movement, color, composition, opacity, gaze; Genesis, Pygmalion, Medusa, Narcissus.

Note: Expected to be given in 2011–12.

[*History of Art and Architecture 271k. Law and the Human: The Challenge of Carl Schmitt: Seminar - \(New Course\)](#)

Catalog Number: 17587 Enrollment: Limited to 12.

Joseph Koerner and Noah R. Feldman (Law School)

Half course (fall term). Tu., 1–3. EXAM GROUP: 15, 16

The legal theorist Carl Schmitt poses fundamental problems for law, politics, and culture. This course studies Schmitt's chief concepts - political theology, friends and enemies, the state of exception - in the context of Hitler's seizure of power and for broader relevance.

Note: Note: Offered jointly with the Law School as LAW-93455A.



History of Art and Architecture 271p. Reading, Drawing, Printing Architecture : Seminar - (New Course)

Catalog Number: 71355 Enrollment: Limited to 12.

Alina A. Payne

Half course (spring term). W., 1–3. EXAM GROUP: 6, 7

The architectural book and its readers, authors, circulation and manufacture in the early modern period.

***History of Art and Architecture 271x. The Origins of Modernity: The “New” 18th Century**

Catalog Number: 1598 Enrollment: Limited to 12.

Ewa Lajer-Burcharth

Half course (spring term). Tu., 1–3. EXAM GROUP: 15, 16

Issues include: art and the public sphere; the birth of the critic; high & low; interiors and interiority; intimacy; artistic identity; sexuality, sexual difference, and gender; the discourse of race. Emphasis on new research and methodologies.

[History of Art and Architecture 271y. Architecture and Literature : Writers and Architects]

Catalog Number: 93425 Enrollment: Limited to 12.

Neil Levine and Alina A. Payne

Half course (spring term). Hours to be arranged.

Examines exchanges between literature and architecture in terms of content (subject matter, social critique, historical awareness), and form (narrative structures, vocabulary, tropes) from Vasari through Goethe to Borges, and from Alberti through Labrouste to Archigram.

Note: Expected to be given in 2011–12.

[*History of Art and Architecture 272w. Post WW II European Art: France, Italy, Germany]

Catalog Number: 6119 Enrollment: Limited to 15.

Benjamin Buchloh

Half course (spring term). Hours to be arranged.

Addresses the work of key figures of post-war European art, under the perspective of different, yet complementary conflicts: avantgarde and neo-avantgarde, artistic practices and spectacle culture, aesthetics of repression, trauma and commemoration.

Note: Expected to be given in 2011–12.

***History of Art and Architecture 272z. Post WW II European Art (Part II) : Seminar**

Catalog Number: 6513 Enrollment: Limited to 12.

Benjamin Buchloh

Half course (fall term). Th., 1–3. EXAM GROUP: 15, 16

This term: Great Britain, Scandinavia, Austria, and the Benelux countries. Addresses the artistic responses to the legacies of Surrealism, to American mass culture, and to the impact of Fascist domination.



**[History of Art and Architecture 273p. Theories and Practices of Abstraction : Seminar] -
(New Course)**

Catalog Number: 78015 Enrollment: Limited to 12.

Maria Elizabeth Gough

Half course (fall term). Hours to be arranged.

Note: Expected to be given in 2011–12.

[History of Art and Architecture 274k. Russian and Soviet Avant-Garde]

Catalog Number: 98835 Enrollment: Limited to 12.

Maria Elizabeth Gough

Half course (fall term). Hours to be arranged.

Note: Expected to be given in 2011–12.

***History of Art and Architecture 275w. The Thing**

Catalog Number: 8955 Enrollment: Limited to 14.

Jennifer L. Roberts

Half course (spring term). Th., 1–3. EXAM GROUP: 15, 16

Investigates the conundrum of "thingness" in art history, introducing theoretical frameworks for interpreting everything from teapots to minimal sculpture. Interrogates forms of exchange - economic, libidinal, aesthetic, historical- that objects invite (or refuse).

[History of Art and Architecture 275x. Aesthetic Theories from Weimar to the Post War Frankfurt School]

Catalog Number: 1977 Enrollment: Limited to 12.

Benjamin Buchloh

Half course (fall term). Hours to be arranged.

The seminar addresses the major texts of aesthetic theory as they were formulated by Georg Lukacs, Ernst Bloch, Siegfried Kracauer, Walter Benjamin, Theodor Adorno, Max Horkheimer and Herbert Marcuse between 1919 and 1968.

Note: Expected to be given in 2011–12.

[*History of Art and Architecture 277k. The Contemporary]

Catalog Number: 29579 Enrollment: Limited to 14.

Carrie Lambert-Beatty

Half course (spring term). Hours to be arranged.

Graduate seminar exploring the intersection of the field of art history with the globalized art world. What is "contemporary art" - in theory, in practice, and in history?

Note: Expected to be given in 2011–12.

[*History of Art and Architecture 277s. Circa 1970]

Catalog Number: 2286 Enrollment: Limited to 12.

Carrie Lambert-Beatty

Half course (fall term). Hours to be arranged.

Investigation of US artistic production and discourse from the early 1970s, with emphasis on the rubric of the "politicization of the avant-garde" and the periodization of the 60s and 70s.



Comparative looks at Europe and Latin America.

Note: Expected to be given in 2011–12.

[History of Art and Architecture 279. Semiotics of Art]

Catalog Number: 3644 Enrollment: Limited to 12.

Robin E. Kelsey

Half course (spring term). Hours to be arranged.

A fresh consideration of semiotic analysis in the study of the visual arts. Readings will include canonical writing on semiotics (e.g., Peirce, Saussure, Jakobson) and on the semiotics of art (e.g., Schapiro, Damisch, Mukarovsky, Krauss).

Note: Expected to be given in 2011–12.

[*History of Art and Architecture 280j. Concepts in Japanese Architecture]

Catalog Number: 96208 Enrollment: Limited to 12.

Yukio Lippit

Half course (spring term). Hours to be arranged.

This seminar explores new ways of conceptualizing Japanese architectural history, which is affiliated with the engineering sciences in Japan, as a subject in the humanities.

Note: Expected to be given in 2011–12.

[*History of Art and Architecture 283v. Chinese Art as Ritual]

Catalog Number: 9584 Enrollment: Limited to 12.

Eugene Wang

Half course (fall term). Hours to be arranged.

Focus is on art as instead of in ritual. Explores how ritual processes or procedural thinking governs the organization of images. Close examination of visual programs in early tombs, Buddhist caves, and Daoist temples.

Note: Expected to be given in 2011–12.

History of Art and Architecture 288s. Ito Jakuchu and Japanese Nature Painting : Seminar - (New Course)

Catalog Number: 32694 Enrollment: Limited to 12.

Yukio Lippit

Half course (fall term). M., 1–3. EXAM GROUP: 6, 7

This seminar explores the conditions of artistic production in early modern Japan through the life and remarkable bird-and-flower paintings of the Kyoto artist, Ito Jakuchu (1716-1800).

***History of Art and Architecture 291r. Topics in Pre-Columbian and Colonial Art**

Catalog Number: 2306 Enrollment: Limited to 12.

Thomas B. F. Cummins

Half course (spring term). W., 4–6. EXAM GROUP: 9

Topics to be determined in consideration of interests of students.

[History of Art and Architecture 295p. Primitivism : Seminar] - (New Course)

Catalog Number: 54002 Enrollment: Limited to 12.

Suzanne P. Blier



Half course (fall term). Hours to be arranged.

Note: Expected to be given in 2011–12.

Cross-listed Courses

[Aesthetic and Interpretive Understanding 40. Monuments of Islamic Architecture - \(New Course\)](#)

[Aesthetic and Interpretive Understanding 43 (formerly Literature and Arts B-35). Visual Culture of the Ottoman Empire Between East and West (15th - 17th Centuries)]

[Aesthetic and Interpretive Understanding 44. Arts of Asia - \(New Course\)](#)

[African and African American Studies 174. The African City]

[Culture and Belief 21 \(formerly Foreign Cultures 93\). Pathways through the Andes—Culture, History, and Beliefs in Andean South America](#)

[Culture and Belief 30. Photography and Society]

[*History 84c \(formerly *History 1610\). Confronting Objects/Interpreting Culture: Interdisciplinary Perspectives on North America](#)

[History of Science 215r. Science and Culture in Medieval and Early Modern Europe: Seminar](#)

[Japanese History 265. The Muromachi Period: Culture and Context]

[Japanese Literature 124. The Tale of Genji in Word and Image]

[Japanese Literature 133 \(formerly Japanese Literature 250r\). Gender and Japanese Art Literature and Arts B-49. Modernisms 1865–1968](#)

[*Visual and Environmental Studies 104. Culture Jam: Art and Activism since 1989: Seminar]

[Visual and Environmental Studies 172b \(formerly 173t\). Contemporary Film Theory](#)

[Visual and Environmental Studies 181. Frames of Mind: Film Theory]

[*Visual and Environmental Studies 182. Film Architectures: Seminar]

[Visual and Environmental Studies 184. Imagining the City: Literature, Film, and the Arts]

[*Visual and Environmental Studies 271. Proseminar in Film and Visual Studies: Theory](#)

[*Visual and Environmental Studies 285x (formerly *Visual and Environmental Studies 185x). Visual Fabrics: Film, Fashion and Material Culture: Seminar]

Graduate Courses of Reading and Research

***History of Art and Architecture 300. Reading and Research**

Catalog Number: 5716

Ruth Bielfeldt 5682, Suzanne P. Blier 3472, Benjamin Buchloh 5325, Joseph Connors 1080 (on leave 2010-11), Thomas B. F. Cummins 3568, Frank Fehrenbach 5013 (on leave 2010-11), Maria Elizabeth Gough 6716, Jeffrey F. Hamburger 3800, Ioli Kalavrezou 2242, Deborah Martin Kao 3345, Robin E. Kelsey 4132 (on leave 2010-11), Joseph Koerner 1954, Ewa Lajer-Burcharth 3373, Carrie Lambert-Beatty 5283 (on leave 2010-11), Neil Levine 4178, Henry W. Lie 2575, Yukio Lippit 4713, Carol C. Mancusi-Ungaro 4406, David G. Mitten 1290, Robert D. Mowry (Sackler Museum) 1958, Gülru Necipoglu-Kafadar 1688, Peter Nisbet 1738, Alina A. Payne 4605 (on leave fall term), Gloria Ferrari Pinney 1384, Jennifer L. Roberts 4407, William W. Robinson 2239, David J. Roxburgh 2138, Victor Stoichita (University of Fribourg) 5014, Eugene Wang 3600, Irene J. Winter 1955, Stephan S. Wolohojian 2756, Henri Zerner 3792 (on



leave spring term), and Hugo van der Velden 4767

Individual work in preparation for the General Examination for the PhD degree or, by arrangement, on special topics not included in the announced course offerings.

***History of Art and Architecture 310. Methods and Theory of Art History**

Catalog Number: 7879 Enrollment: Limited to 14.

Maria Elizabeth Gough 6716

Half course (fall term). .

Note: Limited to incoming graduate students.

***History of Art and Architecture 320. Works of Art: Materials, Forms, Histories**

Catalog Number: 47391 Enrollment: Limited to 12. Limited to first-year graduate students.

Maria Elizabeth Gough 6716

Half course (spring term). F., 1–3.

A series of team-taught workshops designed to sharpen skills in the observation, analysis, and historical interpretation of works of art and architecture.

***History of Art and Architecture 399. Direction of Doctoral Dissertations**

Catalog Number: 6575

Ruth Bielfeldt 5682, Suzanne P. Blier 3472, Benjamin Buchloh 5325, Thomas B. F. Cummins 3568, Frank Fehrenbach 5013 (on leave 2010-11), Maria Elizabeth Gough 6716, Jeffrey F. Hamburger 3800, Ioli Kalavrezou 2242, Robin E. Kelsey 4132 (on leave 2010-11), Joseph Koerner 1954, Ewa Lajer-Burcharth 3373, Carrie Lambert-Beatty 5283 (on leave 2010-11), Neil Levine 4178, Yukio Lippit 4713, David G. Mitten 1290, Gülru Necipoglu-Kafadar 1688, Alina A. Payne 4605 (on leave fall term), Gloria Ferrari Pinney 1384, Jennifer L. Roberts 4407, David J. Roxburgh 2138, Eugene Wang 3600, Irene J. Winter 1955, Henri Zerner 3792 (on leave spring term), and Hugo van der Velden 4767

Note: May not be counted toward course requirements for the PhD degree.

History of Science

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Department of the History of Science

Janet Browne, Aramont Professor of the History of Science, Harvard College Professor (*Chair*)

Mario Biagioli, Professor of the History of Science (*on leave fall term*)

Allan M. Brandt, Amalie Moses Kass Professor of the History of Medicine in the Faculty of Medicine, and Professor of the History of Science in the Faculty of Arts and Sciences, Dean of



the Graduate School of Arts and Sciences

Jimena Canales, Associate Professor of the History of Science (*Director of Undergraduate Studies*)

Jamie Cohen-Cole, Lecturer on the History of Science

Peter L. Galison, Joseph Pellegrino University Professor

Jeremy Alan Greene, Assistant Professor of the History of Science (*on leave 2010-11*)

Evelynn M. Hammonds, Barbara Gutmann Rosenkrantz Professor of the History of Science and of African and African American Studies, Dean of Harvard College

Anne Harrington, Professor of the History of Science (*on leave 2010-11*)

Shigehisa Kuriyama, Reischauer Institute Professor of Cultural History (*on leave 2010-11*)

Rebecca M. Lemov, Assistant Professor of the History of Science (*on leave 2010-11*)

Sean Tath O'Donnell, Lecturer on the History of Science

Katharine Park, Samuel Zemurray, Jr. and Doris Zemurray Stone Radcliffe Professor of the History of Science (*Director of Graduate Studies*)

Ahmed Ragab, Lecturer on the History of Science

Sarah S. Richardson, Assistant Professor of the History of Science and of Studies of Women, Gender, and Sexuality

Charles E. Rosenberg, Ernest E. Monrad Professor of the Social Sciences

Mark Schiefsky, Professor of the Classics

Steven Shapin, Franklin L. Ford Professor of the History of Science (*on leave spring term*)

Hallam Stevens, Lecturer on the History of Science

Conevery Bolton Valencius, Lecturer on the History of Science

Adelheid Voskuhl, Associate Professor of the History of Science

Alex Wellerstein, Lecturer on the History of Science

Other Faculty Offering Instruction in the Department of the History of Science

Ann M. Blair, Henry Charles Lea Professor of History, Harvard College Professor (*on leave spring term*)

Owen Gingerich, Professor of Astronomy and of the History of Science, Emeritus

Peter Godfrey-Smith, Professor of Philosophy

Erwin N. Hiebert, Professor of the History of Science, Emeritus

Gerald Holton, Mallinckrodt Professor of Physics and Professor of the History of Science, Emeritus

Sheila S. Jasanoff, Pforzheimer Professor of Science and Technology Studies at the John F. Kennedy School of Government (*Kennedy School*)

Arthur Kleinman, Esther and Sidney Rabb Professor of Anthropology in the Faculty of Arts and Sciences and Professor of Medical Anthropology in the Faculty of Medicine

Everett I. Mendelsohn, Professor of the History of Science, Emeritus

Martha L. Minow, Jeremiah Smith, Jr. Professor of Law (*Law School*)

Robb Moss, Rudolf Arnheim Lecturer on Filmmaking (*on leave fall term*)

Antoine Picon, G. Ware Travelstead Professor of the History of Architecture and Technology (*Design School*)

Barbara Gutmann Rosenkrantz, Professor of the History of Science, Emerita

A. I. Sabra, Professor of the History of Arabic Science, Emeritus

Jeffrey Schnapp, Visiting Professor of Romance Languages and Literatures, Professor of

Romance Languages and Literatures (*Stanford University*)

The Department of the History of Science oversees the undergraduate concentration in History and Science and provides the degree of AM and PhD to properly qualified graduate students. The Department also offers instruction in the history of science to students in other fields.

Primarily for Undergraduates***History of Science 91r. Supervised Reading and Research**

Catalog Number: 1238

*Jimena Canales and members of the Department**Half course (fall term; repeated spring term). Spring: W., at 11.*

Programs of directed reading and research to be conducted by a person approved by the Department.

***History of Science 97. Tutorial — Sophomore Year**

Catalog Number: 5235

*Alex Wellerstein**Half course (spring term). M., at 4, and a weekly section to be arranged. EXAM GROUP: 9*

Sophomore tutorial is an introductory course that emphasizes the development of critical reading and discussion skills in the context of the study of the history of science. Students will read key texts written by prominent scholars in the broader discipline of science studies, highlighting critical theoretical and methodological issues in the understanding of science, technology, and medicine.

Note: Required for undergraduate concentration in History and Science.

***History of Science 98 (formerly *History of Science 98r). Tutorial — Junior Year**

Catalog Number: 1120

*Jamie Cohen-Cole**Half course (fall term; repeated spring term). Hours to be arranged.*

This half of the junior year is a research-oriented tutorial taken in small groups. Focuses on enhancing research and writing skills through the completion a directed research paper on subject matter of the student's interest.

***History of Science 99. Tutorial — Senior Year**

Catalog Number: 6619

*Conevery Bolton Valencius**Full course. Hours to be arranged.*

Faculty-led seminar and intensive work with an individual advisor, directed towards production of the senior honors thesis.

Note: Ordinarily taken by seniors as a full course. May be taken as a half course only if special permission is obtained. Students are expected to complete a thesis or submit a research paper or other approved project in order to receive course credit.

Cross-listed Courses



[Culture and Belief 11. Medicine and the Body in East Asia and in Europe]

[Culture and Belief 20 \(formerly Historical Study A-27\). Reason and Faith in the West](#)

[Culture and Belief 34 (formerly Historical Study A-87). Madness and Medicine: Themes in the History of Psychiatry]

[Environmental Science and Public Policy 78. Environmental Politics]

[*Freshman Seminar 23w. Science and the Sea - \(New Course\)](#)

[*Freshman Seminar 25i. On the Witness Stand: Scientific Evidence in the American Courts](#)

[*Freshman Seminar 43q. Historian and the Genes-From Mendel to Human Clones](#)

[*Freshman Seminar 45m. The Concept of Race in Science and Medicine in the United States](#)

[Historical Study B-45. The Darwinian Revolution](#)

[*History 83b (formerly *History 1472). Historical Ontology]

[Science of Living Systems 12. Understanding Darwinism](#)

[Science of the Physical Universe 17 \(formerly Science A-41\). The Einstein Revolution](#)

For Undergraduates and Graduates

[History of Science 100. Knowing the World: An Introduction to the History of Science](#)

Catalog Number: 0905

Steven Shapin

Half course (fall term). Tu., Th., at 11. EXAM GROUP: 13

Science is modernity's most authoritative way of knowing the world, both natural and social. We explore how science acquired authority; how it was distinguished from such other ways of knowing as religion, art, and history; and what different forms scientific inquiry took over time. These questions are approached through a broad chronological survey of the history of science, including the physical, life, and human sciences, from the 17th-century Scientific Revolution to the present.

Note: This course, when taken for a letter grade, meets the General Education requirement for Culture and Belief or the Core area requirement for Historical Study A. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past.

[History of Science 106. History of Ancient Science](#)

Catalog Number: 3958

Mark Schiefsky

Half course (fall term). M., W., (F.), at 11. EXAM GROUP: 4

An examination of key aspects and issues in the development of ancient science, focusing on natural philosophy from the Presocratics to Aristotle as well as its relation to early Greek medicine and mathematics. Some consideration will also be given to the historiography of natural philosophy within this period.

[History of Science 107. History of Medieval Science](#)

Catalog Number: 5071

Instructor to be determined

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.

History of Science 108. Bodies, Sexualities, and Medicine in the Medieval Middle East - (New Course)

Catalog Number: 81052

Ahmed Ragab

Half course (spring term). M., W., (F.), at 11. EXAM GROUP: 4

This course will examine the ways in which medical, religious, cultural, and political discourses and practices interacted in the medieval and early modern Middle East to create and reflect multiple understandings of human bodies and sexualities. Special attention to debates on health, sexuality, and gender and racial identities.

Note: This course, when taken for a letter grade, meets the Core area requirement for Historical Study B.

History of Science 110. Bubonic Plague and the Invention of the Middle East - (New Course)

Catalog Number: 90495

Aaron David Abraham Shakow

Half course (fall term). Tu., Th., at 12.

Much like terrorism today, the threat of bubonic plague from the Middle East once loomed large over international relations. But what was the plague? How did economic, political and religious rivalries affect its diagnosis and regulation? How can local perspectives help us understand its identity and impact? This course will cover the role of plague control in international public health and its contribution to divisions between East and West after the fifteenth century.

History of Science 111. Two Scientific Revolutions: From the Classical Age of Islamic Sciences to the Scientific World of Early Modern Europe - (New Course)

Catalog Number: 96159

Ahmed Ragab

Half course (fall term). M., W., (F.), at 11. EXAM GROUP: 4

Explores the emergence and consolidation in the Islamic Middle East of a new science and philosophy constructed in part out of Persian and Greek materials; the consolidation and development of this science in an Islamic context; and its connections with novel developments in sixteenth- and early seventeenth-century European science. Attention to cultural context, including imperial projects, societal transformation, and religious worldviews.

Note: This course, when taken for a letter grade, meets the Core area requirement for Historical Study B.

History of Science 112. Health, Medicine and Healing in Medieval and Renaissance Europe

Catalog Number: 8576

Katharine Park

Half course (spring term). M., W., (F.), at 10. EXAM GROUP: 3

A survey of medical theory, organization, and practice in the broader context of healing, including magical and religious healing. Topics include the construction of medical authority and



expertise, the play of sex and gender among healers and patients, the rise of hospitals, and responses to "new" diseases such as syphilis and plague.

Note: This course, when taken for a letter grade, meets the Core area requirement for Historical Study B.

History of Science 113. Crusades, Plagues and Hospitals: Medicine and Society in the Islamic Middle Ages - (New Course)

Catalog Number: 59744

Ahmed Ragab

Half course (fall term). M., 2–4. EXAM GROUP: 7, 8

Surveys the recasting of Islamic medical practices, traditions, and institutions in response to the many health challenges of the turbulent Middle Ages, from the eleventh through the thirteenth centuries, including wars, invasions, and epidemics.

Note: his course, when taken for a letter grade, meets the Core area requirement for Historical Study B.

[History of Science 117. Science, Philosophy, and Religion in Late Antiquity and the Middle Ages]

Catalog Number: 9172

Instructor to be determined

Half course (fall term). M., W., (F.), at 11.

Consideration of how science and natural philosophy found itself both opposed to and used by Christian, Judaic, and Islamic religious traditions and, as a crucial test case, how these traditions handled the divide between creation and the eternal world.

Note: Expected to be given in 2011–12.

History of Science 123. The Clockwork Universe

Catalog Number: 6517

Jimena Canales

Half course (spring term). W., 2–4. EXAM GROUP: 7, 8

During the tumultuous period of the French Revolution scientists ironically found the universe to be stable and constant. But this stability soon gave way to an uncertain future. New theories predicted its end, its uncontrollable expansion, and even the need for God to keep it going. How have we thought about the Universe and its inhabitants (from Laplace to Einstein and from astronomy to physics) through classic scientific texts.

[History of Science 126. The Matter of Fact: Physics in the Modern Age]

Catalog Number: 5319 Enrollment: Limited to 15.

Jimena Canales

Half course (fall term). Tu., Th., at 11. EXAM GROUP: 13

What is a scientific fact? What is a physical law? How are scientific facts and laws discovered, established, and, sometimes, overturned? These questions will be addressed by exploring important episodes in the history of facts, ranging from the Apollo moon landings to DNA evidence in the courtroom, with a special focus on the hard facts and laws of physics: electrons, molecules, X-rays, and the laws of thermodynamics.

Note: Expected to be given in 2011–12.



History of Science 129. Science in the Cold War - (New Course)

Catalog Number: 23329

Alex Wellerstein

Half course (spring term). M., W., F., at 10. EXAM GROUP: 3

This course will look at the history of science during the Cold War, with a primary focus on science in the United States. Broad questions about the evolving relationship between science and the state in the twentieth century will be explored through key episodes from the physical, biological, and social sciences. Topics will include the arms race, the military-industrial-academic complex, Big Science, government secrecy, McCarthyism, the space race, the Vietnam War, international cooperation and competition, and student resistance.

Note: This course, when taken for a latter grade, meets the Core area requirement for Historical Study B.

History of Science 132. This Land Is Your Land: A Survey of American Environmental History

Catalog Number: 8673

Conevery Bolton Valencius

Half course (spring term). M., W., (F.), at 12. EXAM GROUP: 5

A roughly chronological survey of the environmental history of the United States, with particular attention to how changing scientific models have shaped Americans' interactions with the places they live, work, and use. Themes: Native Americans vs European models of nature, scientific voyages of exploration, slave-based agriculture, warfare over the Great Plains, early environmental movements, the Dust Bowl and scientific visions of "conservation," engineering and the control of waterways, environmental activism and current debates over geo-engineering.

History of Science 133. Biotechnology and Society

Catalog Number: 36366

Hallam Stevens

Half course (fall term). M., W., (F.), at 10. EXAM GROUP: 3

Analyzes contemporary debates about stem cells, genetically modified organisms, patenting of life, and cloning using the tools of history and the social sciences. Locating the origins of biotechnology in agricultural and beer-brewing techniques of the nineteenth century, this class traces the recent history of attempts to control, manipulate, and utilize biology to further human ends. Understanding the political, economic, medical, and cultural histories of biotechnology will illuminate how contemporary biotechnologies are re-framing what we mean by 'natural,' 'artificial,' 'living,' and 'human.'

[History of Science 134. Nature on Display: Conference Course]

Catalog Number: 4987

Janet Browne

Half course (fall term). M., 2-4.

We follow the work of naturalists and collectors from colonial times to the recent past as they opened up biological knowledge in North America and Europe. Our theme is to explore the cultural meaning of collecting, preserving, and displaying organisms. We look at the history of travel, museums, zoos, and shows, as well as early conservation work, animals in the movies, and the use of animals in modern laboratories. Our course will include a visit to the Museum of



Comparative Zoology.

Note: Expected to be given in 2011–12.

History of Science 138. Sex, Gender, and Evolution - (New Course)

Catalog Number: 30321

Sarah S. Richardson

Half course (spring term). Tu., Th., at 10; Th., at 3:30. EXAM GROUP: 12

Evolutionary theories of sex and gender and central controversies in human evolutionary biology from Darwin to the present. Topics include debates over the theory of sexual selection and the evolutionary basis of monogamy, sexual preference, physical attraction, rape, maternal instinct, and sex differences in cognition. Readings: primary texts and historical, philosophical, and feminist analyses.

History of Science 139. The Postgenomic Moment - (New Course)

Catalog Number: 81843

Sarah S. Richardson

Half course (fall term). W., 2–4. EXAM GROUP: 7, 8

Joining "postgenomic" assessments of the genome projects, this seminar examines the history and contemporary practice of genomics from a multidisciplinary perspective. Topics include the role of technology, government funding, private industry, and race, gender, and nationality in the historical development of genomics, the ways in which genomic research challenges traditional conceptions of biology and science, and the implications of emerging trends such as direct-to-consumer genomics and whole-genome sequencing.

***History of Science 140. Disease and Society**

Catalog Number: 4471 Enrollment: Limited to 25.

Charles E. Rosenberg

Half course (spring term). W., 4–6. EXAM GROUP: 9

A consideration of changing conceptions of disease during the past two centuries. We will discuss general intellectual trends as well as relevant cultural and institutional variables by focusing in good measure on case studies of particular ills, ranging from cholera to sickle cell anemia to anorexia and alcoholism.

[History of Science 141. The Social Life of Pharmaceuticals]

Catalog Number: 8890

Jeremy Alan Greene

Half course (fall term). W., 2–4.

The evolution of the modern pharmaceutical industry over the long twentieth century--from its early intersection with the image and later the structure of scientific research, to its dramatic post-WWII expansion and late-century saturation of medical and marketing media--is tightly intertwined with broader social, cultural, economic, and political developments. This conference course engages primary and secondary works in the history and anthropology of pharmaceuticals to situation the prescription drug as cultural artifact.

Note: Expected to be given in 2011–12.



[*History of Science 145 (formerly *History of Science 90m). Medicine and Deviance: Conference Course]

Catalog Number: 2795 Enrollment: Limited to 15.

Charles E. Rosenberg

Half course (spring term). M., 2–4.

Sociologists and historians have described what they call the medicalization of deviance: explaining certain behaviors as the consequences of disease rather than culpable choice. I refer to a variety of behaviors ranging from homosexuality to substance abuse, from chronic fatigue syndrome to premenstrual syndrome. This course will focus on the interrelated legal, medical, policy, and professional history of such problematic “diseases” during the past century and a half.

Note: Expected to be given in 2011–12.

[History of Science 148. History of Global Health]

Catalog Number: 21054

Jeremy Alan Greene

Half course (fall term). Tu., Th., at 11.

A survey course for undergraduates and graduate students exploring the interrelated histories of public health, international health, and global health from the 19th to the 21st centuries, with attention to the relationship between Western and non-Western forms of scientific practice and health systems. This course will trace the role of health and medicine in mediating the relationships between metropolis and colony, state and citizen, North and South, public welfare and private interest, research practices and human subjects, the commodification of health and the body, and human rights discourse. The course will be divided chronologically into four parts, tracing imperial health formations in the long 19th century, the nascent internationalism of the interwar period, the construction of bureaucracies of development in the postwar and postcolonial era, and configurations of public- and private-sector actors in late 20th and early 21st century global health practices. This course will meet twice weekly for lectures and once a week in small group sections; graduate students can enroll in a separate graduate seminar section.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Historical Study A.

[History of Science 150. History of Social Science]

Catalog Number: 0135

Rebecca M. Lemov

Half course (spring term). M., W., (F.), at 11.

Examination of the growth and development of social sciences such as sociology, anthropology, psychoanalysis, psychology, political science, and economics from the Enlightenment to the present. Innovators devised these fields to provide new, scientific ways to gain insight into age-old philosophical and religious questions, such as, What is the nature of the “self” or the “soul”? What binds human beings to one another? What is free will? What are the limits of social control, behavioral engineering, and the possible reach of techniques for adjustment and manipulation?

Note: Expected to be given in 2011–12.



History of Science 151. Modern Pasts and Postmodern Futures

Catalog Number: 22763

Jimena Canales

Half course (fall term). Tu., Th., at 11. EXAM GROUP: 13

This course analyzes the modern age through three complementary perspectives. First, it offers a historical perspective focusing on landmark changes of the period, particularly focusing on science (Pasteur, Darwin, Charcot, Maxwell) and technology (steam engines, rail, telegraphy, photography). Second, it analyzes the work of important writers on modernity and civilization (focusing on Marx, Bergson, Freud). Third: it studies theorists of postmodernity (mainly Lyotard, Jameson, Habermas) who describe the benefits, dangers and/or alternatives to modernity.

[*History of Science 152. Filming Science]

Catalog Number: 8254

Peter L. Galison and Robb Moss

Half course (fall term). Hours to be arranged.

Examination of the theory and practice of capturing scientific practice on film. Topics will include fictional, documentary, informational, and instructional films and raise problems emerging from film theory, visual anthropology and science studies. Each student will make and edit short film(s) about laboratory, field, or theoretical scientific work.

Note: Expected to be given in 2011–12.

History of Science 153. History of Dietetics

Catalog Number: 1409

Steven Shapin

Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17

A survey of the relationships between medical expertise and human eating habits from Antiquity to the present, giving special attention to the links between practical and moral concerns and between expert knowledge and common sense.

[*History of Science 154. Science and Business in Modern America]

Catalog Number: 7942 Enrollment: Limited to 25.

Steven Shapin

Half course (spring term). M., 2–4.

A survey of the relationships between the practice of science and the world of commerce in the United States since the beginning of the 20th century. Topics covered include the conduct and image of science in academia and industry, ideas about the connections between science and technology, and the development and understanding of entrepreneurial science.

Note: Expected to be given in 2011–12.

[History of Science 156. How We Think About Science and Why] - (New Course)

Catalog Number: 38436

Jimena Canales

Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17

From the history of ideas to history scientific practices. From focusing on books to studying labs.



From thinking about theories to reevaluating objects. How we think about science and why.

Note: Expected to be given in 2011–12.

[History of Science 157. Sociology of Science]

Catalog Number: 2434

Steven Shapin

Half course (fall term). Tu., 2–4.

An introduction to a series of sociological topics concerning the scientific role, the scientific community, and scientific knowledge that are of special interest to historians. What are the social conditions for the institutionalization of science and for the support of the scientific role? What are the possibilities for a historical sociology of scientific knowledge? What social pressures have historically been exerted on our overall understanding of science and its relations with society?

Note: Expected to be given in 2011–12.

History of Science 162. Science in the Enlightenment

Catalog Number: 7570

Adelheid Voskuhl

Half course (spring term). W., 4–6. EXAM GROUP: 9

What is the relationship between science and the period commonly referred to as the Enlightenment (ca. 1685-1815)? We will examine scientific theory, experimentation, and observation in the multiple contexts of social, philosophical, intellectual, and material cultures of the Enlightenment in Europe and North America. The course will explore the connections between Enlightenment science, technology, and engineering with the Industrial Revolution, Newtonianism, and the eventual reactions to Enlightenment ideals of reason and rationality.

[*History of Science 171. Narrative and Neurology]

Catalog Number: 3222

Anne Harrington

Half course (spring term). Hours to be arranged.

An exploration of the complex relationship between the making of brain science and the human stories/experiences of brain damaged people. Topics include iconic cases of brain damage like Phineas Gage and H.M (and who speaks for them), the emergence and historical function of neurological case histories, the study of brain-damaged soldiers in WWI, the "neurological novels" of Alexandr Luria, the popular writings of Oliver Sacks, the brain-injured patient as author, and internet-based writings celebrating "neurodiversity."

Note: Expected to be given in 2011–12.

History of Science 173. The Abnormal Mind - (New Course)

Catalog Number: 84089

Jamie Cohen-Cole

Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17

This course examines how the abnormal mind has been understood from the origins of psychiatry and psychoanalysis to the development of psychopharmaceuticals. We will study classification of diseases and methods of treatment, the professional formation of psychiatry, changing definitions of normality, the interplay between social and mental norms, and ways that



deviant or minority social groups have been explained through references to the character of their minds.

[History of Science 174. Critical Experiments in the Human Sciences]

Catalog Number: 1750

Rebecca M. Lemov

Half course (fall term). M., W., (F.), at 10.

This course focuses on high-impact experiments - among them, the Milgram "Obedience" experiments and the Stanford Prison Experiment - carried out in the twentieth-century human sciences by anthropologists, sociologists, social psychologists, and/or experimental psychologists. Many dreamed of a "technology of human behavior" and conducted experiments toward this end. What were the results, and how do they continue to affect our thinking and daily lives today?

Note: Expected to be given in 2011–12.

History of Science 175. Minds, Machines, and Computers - (New Course)

Catalog Number: 32567

Jamie Cohen-Cole

Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17

How has what we know or believe about machines affected what we know and believe about the human mind? How have developments in the human sciences shaped the development of information technology? Topics covered in this course include Charles' Babbage's analytical engine, the Turing Machine, cyberspace, distributed cognition, and the origins, development, and criticism of research in artificial intelligence.

[*History of Science 176. Brainwashing and Modern Techniques of Mind Control]

Catalog Number: 76277

Rebecca M. Lemov

Half course (spring term). Th., 2–4.

This course examines the phenomenon of "brainwashing" as a modern set of techniques that can apparently force a subject radically to alter her beliefs against her will. The Cold War roots of 'brainwashing' - both the myth and the reality -- lie in the politics of twentieth-century anti-Communism and the deeper fear that people's most strongly held thoughts, ideas, and ideological commitments could be vulnerable to powerful infiltration. In order to understand the dynamics of this process we will examine case studies beginning with the Korean War-era emergence of the term 'brainwashing', the American interdisciplinary science of "coercive persuasion" that arose in response, and successive waves of technological, political, and sociocultural developments. We will also look at how brainwashing and analogous persuasive techniques may operate among larger groups, crowds, organizations, and mass societies.

Note: Expected to be given in 2011–12.

History of Science 178. Discovering the Mind - (New Course)

Catalog Number: 99196

Jamie Cohen-Cole

Half course (spring term). M., W., (F.), at 11; Th., at 2. EXAM GROUP: 4

An introduction to the growth and development of scientific study of the mind since the



nineteenth century and role of the mind sciences in shaping modern society, politics and culture. Topics include phrenology, the birth of experimental psychology, eugenics, personality testing, the SAT, behaviorism, cognitive science, evolutionary psychology, cognitive neuroscience, and the use of mind science in politics, law, business, and education.

History of Science 183. Democracy and Technology - (New Course)

Catalog Number: 47674

Adelheid Voskuhl

Half course (fall term). M., W., (F.), at 11. EXAM GROUP: 4

What is the relationship between technology and politics in global democracies? This course explores various forms of technology, its artifacts and experts in relation to government and political decision-making. Does technology "rule" or "run" society, or, should it? How do democratic societies balance the need for specialized technological expertise with rule by elected representatives? Topics will include: industrial revolutions, factory production and consumer society, technological utopias, the Cold War, state policy, colonial and post-colonial rule, and engineers' political visions.

History of Science 184. Nanocultures - (New Course)

Catalog Number: 62068

Hallam Stevens

Half course (spring term). M., W., (F.), at 12; F., at 1; F., at 12; F., at 2.

Beginning with the history of miniaturization, this course analyzes the cultural impact of the increasing smallness and invisibility of devices that play an important role in our lives. From the first computers to nano-technology we have experienced the continual shrinkage of devices of increasing power and significance. This course will examine the role of tiny technologies in communication, surveillance, warfare, medicine, and engineering, examining their social, cultural, political, environmental, legal, and economic impacts.

***History of Science 185. Cyberpunk - (New Course)**

Catalog Number: 46961 Enrollment: Limited to 25.

Hallam Stevens

Half course (spring term). W., 2-4.

Fields such as virtual reality, biotechnology, nanotechnology, and communications technologies have been inspired and transformed by our cultural imaginaries. Our fears, hopes, and understandings of these domains are written into texts. Through reading science fiction, role-playing games, hypertext fiction, and MMORPGs, this class will explore the interfaces between science, technology, and fiction. This will lead to a deeper understanding of how our culture comes to terms with the dangers, threats, and complexities of contemporary technologies.

History of Science 186. Technology in the Social World

Catalog Number: 2147

Adelheid Voskuhl

Half course (spring term). M., W., (F.), at 11. EXAM GROUP: 4

What role does technology play in the social world? This course explores a variety technological systems in social and historical contexts in Europe, North America, Africa, and Asia between 1300 and 2010. Topics include warfare, agriculture, communication technologies, transportation,



consumerism, urbanization, and colonization. Special emphasis on the interrelations between technological artifacts and other forms of "cultural production" such as government, commerce, philosophy, and art.

History of Science 187. Cybersociety - (New Course)

Catalog Number: 75642

Hallam Stevens

Half course (fall term). M., W., (F.), at 12.

Cybersociety explores the social, cultural, moral, legal and political implications of the Internet and other recent communications technologies. Tracking the history of the Internet from a 'survivable' cold war network to a social networking tool, the class will explore how these technologies have transformed privacy, sociality, notions of selfhood and identity, commerce, globalization, the media, and the boundaries of the body. By studying packet switching, email, hypertext, Facebook, Second Life, and Twitter as cultural as well as technological phenomena, we will explore the complicated influence of these artifacts on our everyday lives.

Cross-listed Courses

[Classical Studies 165. Ancient Medicine]

East Asian Studies 175. The History of Modern Science and Technology in East Asia

History 1345. The Human Sciences in the Modern West

History 1702 (formerly History 1923). Violence, Substances and Mental Illness: African Perspectives: Conference Course

***History 1955. Humans and Germs in History: Conference Course - (New Course)**

[*MCB 142. Major Advances in Classical and Molecular Genetics]

[Sociology 160. Medicine, Health Policy and Bioethics in Comparative and Global Perspective: Conference Course]

Sociology 190. Life and Death in the US: Medicine and Disease in Social Context

Primarily for Graduates

***History of Science 206r. Physical Atomism in Antiquity: Epicurus and Lucretius: Seminar**

Catalog Number: 2410

Mark Schiefsky

Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17

Reading of Epicurus' *Letter to Herodotus* in Book X of Diogenes Laertius, together with Epicurean atomism in Lucretius' *De rerum natura* and its criticism in other ancient sources. All readings in translation.

[*History of Science 207r. Late Medieval and Early Modern Atomism: Seminar - (New Course)]

Catalog Number: 8468

Instructor to be determined

Half course (spring term). Hours to be arranged.

Study of selected primary texts from the fourteenth to the seventeenth centuries and their



refutation in these periods.

Note: Expected to be given in 2011–12. Reading knowledge of Latin is not required.

**History of Science 209. Science and Islam: Debates, Approaches and Controversies:
Seminar - (New Course)**

Catalog Number: 74851

Ahmed Ragab

Half course (spring term). W., 4–6. EXAM GROUP: 9

A critical examination of the historiography of science and religion in the medieval and modern Middle East, Focus on the effects of religious laws and traditions on scientific theory and practice and the influence of science and technology on religious and theological discourse and practice. Comparison with relevant European developments.

**History of Science 215r. Science and Culture in Medieval and Early Modern Europe:
Seminar**

Catalog Number: 4568

Katharine Park

Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17

Topic for 2010-11: Utopia in the Age of the Scientific Revolution. Explores the relations between new forms of scientific knowledge and the new literary genre of the utopian fiction in sixteenth- and seventeenth-century Europe, including works by More, Palissy, Brahe, Campanella, Bacon, Cavendish, and Fontenelle.

Prerequisite: Some familiarity with the history of early modern European art or science and reading knowledge of at least one European language in addition to English.

[History of Science 238. Rethinking the Darwinian Revolution: Seminar]

Catalog Number: 9533

Janet Browne

Half course (fall term). Tu., 2–4.

Taking Charles Darwin as a well-documented case study, we will explore the historiography of evolutionary ideas from 1900 on, covering the political, social, and scientific commitments involved in the concept of a "Darwinian Revolution."

Note: Expected to be given in 2011–12.

History of Science 240. The Body in Health and Disease: Seminar

Catalog Number: 6821

Charles E. Rosenberg

Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17

"Sickness" and "health," notions of inappropriate and appropriate behavior, are determined by conceptions of the body and its proper management. Discussion will focus first upon secondary studies and subsequently upon students' research.

History of Science 241. Lives and Letters

Catalog Number: 5778

Janet Browne

Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17



This graduate conference course centers on recent critical interest in life-writing and the image or 'identity' of a scientist (male and female) in the 19th and early 20th centuries. We explore the emergence of scientific biography as a genre and how it may have contributed to changing notions of science. We shall also cover the increasing emphasis on the personality of a scientist and in some cases the cult of celebrity. Sessions will include modern critical thinking about 'writing lives' in scientific history, self-representations through autobiography; biography as a historically contingent genre; group biographies; and pay some attention to the presentation of scientific lives in non-textual media such as film and portraiture. A key part of the course concerns the documents of a recorded life, especially letters as a resource for historical analysis. There will be opportunities to engage with major editorial projects underway at Harvard featuring the Victorian physicist John Tyndall and the Charles Darwin Correspondence Project. Assessed by participation in weekly workshops, assignments and a research project.

[History of Science 243. The Making of Modern Medicine: Seminar]

Catalog Number: 5572

Charles E. Rosenberg

Half course (spring term). W., 4–6.

Focus on key works in the history of medicine, illustrating historiographical trends in the past half-century as well as the substantive aspects of the field that have attracted the historical concern.

Note: Expected to be given in 2011–12.

[History of Science 247. Current Issues in the History of Medicine: Seminar](#)

Catalog Number: 28251

Allan M. Brandt

Half course (fall term). M., 4–6. EXAM GROUP: 9

Explores new methods for understanding disease, medicine, and society, ranging from historical demography to cultural studies. Topics include patterns of health and disease, changes in medical science and clinical practice, the doctor-patient relationship, health care systems, alternative healing, and representations of the human body. The course will focus on historical problem-framing, research strategies, and writing.

[History of Science 249. Caregiving: Historical and Anthropological Perspectives: Seminar]

Catalog Number: 43358

Charles E. Rosenberg and Arthur Kleinman

Half course (spring term). Th., 2–4.

In every time and place women and men have become ill and sought care. This course is organized around ethnographic and historical studies of caregiving, providing a framework for thinking comparatively about the illness experience in a variety of cultural and historical contexts. We will be examining the spectrum of care from local and family through highly bureaucratic and specialized settings. We will examine chronic as well as acute illness and disability and interrogate rationales for caregiving including the moral and emotional as well as the operational and instrumental.

Note: Expected to be given in 2011–12.



[*History of Science 253. Bioethics, Law, and the Life Sciences]

Catalog Number: 4500

Sheila S. Jasanoff (Kennedy School)

Half course (spring term). Tu., Th., 10–11:30.

Seeks to identify and explore salient ethical, legal, and policy issues – and possible solutions – associated with developments in biotechnology and the life sciences.

Note: Expected to be given in 2011–12. Offered jointly with the Kennedy School as IGA-325.

May not be taken for credit by students who have already taken IGA-325 (KSG).

[History of Science 256. Culture, Personality, and Self]

Catalog Number: 5086

Rebecca M. Lemov

Half course (fall term). Th., 4–6.

Examines the history of the culture and personality movement, considered narrowly and broadly, as well as technologies and techniques developed in the social and human sciences for measuring the self and its socialization processes.

Note: Expected to be given in 2011–12.

[*History of Science 259. The History of the History of Science]

Catalog Number: 68494

Steven Shapin

Half course (spring term). Tu., 2–4.

A critical survey of conceptions of the history of science over the past hundred years or so and an interpretative engagement with why what's been said about science and its history have mattered so much.

Note: Expected to be given in 2011–12.

History of Science 284. Technology and the Text: Machines and Discourse in Historical and Literary Inquiry

Catalog Number: 6779

Adelheid Voskuhl

Half course (fall term). Th., 4–6. EXAM GROUP: 18

Investigates historically and theoretically the relationship between textuality and technology in recent works as well as in "classics" of the history of technology, cultural theory, and literary criticism. Readings include studies in media history and theory, and theories of technology and textuality; case studies in the history of technology and literature; and analyses of the mechanical reproduction of poetry and works of art from 19th- and 20th-c. German and French Social and Cultural Theory.

[*History of Science 285a. Science, Power and Politics I]

Catalog Number: 5124

Sheila S. Jasanoff (Kennedy School)

Half course (fall term). W., 2:10–4.

This is the fall term of a year-long seminar that introduces students to the major contributions of the field of science and technology studies (S&TS) to the understanding of politics and policymaking in democratic societies.



Note: Expected to be given in 2011–12. Offered jointly with the Kennedy School as IGA-313. May not be taken for credit by students who have already taken IGA-313 (KSG). Either 285a or 285b may be taken as a separate course, but only with permission of the instructor.

[*History of Science 285b. Science, Power, and Politics II]

Catalog Number: 5291

Sheila S. Jasanoff (Kennedy School)

Half course (spring term). Tu., 2:10-4. EXAM GROUP: 16, 17

Introduction to major methodological approaches in the field of science and technology studies (S&TS), particularly focusing on the analysis of science politics and policymaking in democratic societies.

Note: Expected to be given in 2011–12. Either 285a or 285b may be taken as a separate course, but only with permission of the instructor.

History of Science 286. History of Technology: Reformation to the Present

Catalog Number: 0767

Adelheid Voskuhl

Half course (spring term). Hours to be arranged.

Survey of history of technology during early modern and modern periods in Europe, North America, and Asia. Readings include social and cultural histories of technology, classics in the theory of technological modernity, and primary sources.

[History of Science 288. History and Philosophy of Technology: Proseminar]

Catalog Number: 6645

Adelheid Voskuhl

Half course (spring term). Th., 4–6.

Graduate-level seminar on classic and recent influential works in the history and philosophy of technology, covering the early modern, modern, and late modern periods; industrial-technological, information-technological, and bio-technological systems; as well as philosophical accounts from the analytical and the continental traditions. Literature covers authors such as Karl Marx, Martin Heidegger, Jurgen Habermas, Thomas Hughes, Donna Haraway, Donald MacKenzie, David Landes, Hayden White, Emily Thompson, and Ken Alder.

Note: Expected to be given in 2011–12.

History of Science 290. Critical History: Curating Images, Objects, Media: Seminar - (New Course)

Catalog Number: 62781 Enrollment: Limited to 15.

Peter L. Galison and Jeffrey Schnapp (Stanford University)

Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17

Examines recent writings on material culture and collecting as part of development of "Tangible Things": an exhibition drawing from the collections of Harvard museums. Seminar combines critical curatorial work with production of short films.

History of Science 291. Science and Art (Graduate Seminar in General Education) - (New Course)

Catalog Number: 45428



Jimena Canales

Half course (spring term). M., 2–4. EXAM GROUP: 7, 8

When perspective was invented in the 15th century, was it a scientific or an artistic discovery? Science and art sometimes meet, crash, and separate. This course will examine the shifting relations between art and science from the Early Modern period to the 20th century. Starting with canonical examples such as Vesalius's anatomical atlas, Da Vinci's work on human proportions, and Galileo's astronomical drawings, the course will include visual culture more broadly, studying the impact of new technologies across fields from medicine to physics. The seminar will design and develop a General Education course on these themes for undergraduates.

***History of Science 292. Gravity's Rainbow: Seminar - (New Course)**

Catalog Number: 60535

Peter L. Galison

Half course (fall term). W., 2–4. EXAM GROUP: 7, 8

This course focuses on a single, extraordinary work of fiction, Thomas Pynchon's **Gravity's Rainbow**. By studying this work we explore Pynchon's vision of modernity, but also important themes in the history of science and in philosophy. We will grapple with the weaponization of science in the twentieth century and on the one hand, and with clashing accounts of explanation on the other. How does one explain the world of V2 rocket-bombs exploding around London in World War II? Do we learn about the location of future detonations from the ones that come earlier as Pavlov might have had it? Or is the world, at root, inextricably random, with events utterly independent one from the other as Poisson would say? Such reflections on the world--and they extend through identity, love, war, and materiality-- feed back into the very nature of writing itself, and in the final sessions of the seminar, we will turn to literary-philosophical questions such this: How, in the absence of causality and continuity, does narrative itself function? What might be a postcausal (postmodern) novel? Along with Pynchon's original text, we will read widely in the history of technology, warfare, science, literary theory, and philosophy.

[*History of Science 294. Tools, Instruments, and Extended Cognition]

Catalog Number: 3303

Peter L. Galison and Peter Godfrey-Smith

Half course (fall term). W., 4–6.

Examination of the relation between external tools and cognition. Can the boundaries of a thinking agent extend beyond the skin? Perspectives from philosophy of mind and history of science, including Clark, Wilson, Galison and others.

Note: Expected to be given in 2011–12.

[History of Science 297r. Topics in the History of Medieval Latin Science]

Catalog Number: 5050

Instructor to be determined

Half course (spring term). Hours to be arranged.

Topic to be announced.

Note: Expected to be given in 2011–12.

Prerequisite: Reading knowledge of Latin.



[*History of Science 298r. The Establishment of Medieval Latin Scientific and Philosophical Texts: Seminar]

Catalog Number: 4893

Instructor to be determined

Half course (spring term). Hours to be arranged.

Note: Expected to be given in 2011–12.

Prerequisite: Knowledge of Latin, but no previous experience with paleography required.

Cross-listed Courses

Chinese History 267. Too Much Water or Too Little Water: Water and Man in the Chinese Environmental History: Seminar - (New Course)

[East Asian Studies 200. The Uses and Meaning of the New Arts of Presentation]

[East Asian Studies 205. Approaches to the Comparative History of Medicine and the Body]

[East Asian Studies 230r (formerly East Asian Studies 230). The History of East Asian Medicine: Seminar]

History 2462 (formerly History 2607). Readings in the U.S. in the 20th Century: Proseminar

[Japanese History 260r. Topics in Japanese Cultural History]

Graduate Courses of Reading and Research

***History of Science 300. Direction of Doctoral Dissertations**

Catalog Number: 3388

Mario Biagioli 1756 (on leave fall term), Allan M. Brandt 3031, Janet Browne 5511, Jimena Canales 5070, Peter L. Galison 3239, Peter Godfrey-Smith 3338, Jeremy Alan Greene 6155 (on leave 2010-11), Evelyn M. Hammonds 4545, Anne Harrington 1895 (on leave 2010-11), Sarah Jansen 4107, Sheila S. Jasanoff (Kennedy School) 2248, Arthur Kleinman 7473, Shigehisa Kuriyama 5269 (on leave 2010-11), Rebecca M. Lemov 5570 (on leave 2010-11), Martha L. Minow (Law School) 2617, Katharine Park 2974, Charles E. Rosenberg 3784, Steven Shapin 3984 (on leave spring term), and Adelheid Voskuhl 5569

Note: Under special circumstances arrangements may be made for other instruction in guidance for doctoral dissertations.

***History of Science 301. Reading and Research**

Catalog Number: 5641

Mario Biagioli 1756 (on leave fall term), Allan M. Brandt 3031, Janet Browne 5511, Jimena Canales 5070, Peter L. Galison 3239, Owen Gingerich 1159, Peter Godfrey-Smith 3338, Jeremy Alan Greene 6155 (on leave 2010-11), Evelyn M. Hammonds 4545, Anne Harrington 1895 (on leave 2010-11), Steven James Harris 4081, Erwin N. Hiebert 1187, Gerald Holton 1883, Sarah Jansen 4107, Sheila S. Jasanoff (Kennedy School) 2248, Arthur Kleinman 7473, Shigehisa Kuriyama 5269 (on leave 2010-11), Andrew Lakoff (University of California, San Diego) 6152, Rebecca M. Lemov 5570 (on leave 2010-11), Everett I. Mendelsohn 2700, Martha L. Minow (Law School) 2617, Katharine Park 2974, Antoine Picon (Design School) 4295, Ahmed Ragab 6263, Charles E. Rosenberg 3784, Barbara Gutmann Rosenkrantz 3651, A. I. Sabra 2702,



Steven Shapin 3984 (on leave spring term), and Adelheid Voskuhl 5569
Individual work in preparation for the General Examination for the PhD degree.

***History of Science 302. Guided Research**

Catalog Number: 5282

Mario Biagioli 1756 (on leave fall term), Allan M. Brandt 3031, Janet Browne 5511, Jimena Canales 5070, Peter L. Galison 3239, Owen Gingerich 1159, Peter Godfrey-Smith 3338, Jeremy Alan Greene 6155 (on leave 2010-11), Evelyn M. Hammonds 4545, Anne Harrington 1895 (on leave 2010-11), Erwin N. Hiebert 1187, Gerald Holton 1883, Sarah Jansen 4107, Sheila S. Jasanoff (Kennedy School) 2248, Arthur Kleinman 7473, Shigehisa Kuriyama 5269 (on leave 2010-11), Rebecca M. Lemov 5570 (on leave 2010-11), Everett I. Mendelsohn 2700, Martha L. Minow (Law School) 2617, Robb Moss 1392 (on leave fall term), Katharine Park 2974, Antoine Picon (Design School) 4295, Charles E. Rosenberg 3784, Barbara Gutmann Rosenkrantz 3651, A. I. Sabra 2702, Steven Shapin 3984 (on leave spring term), and Adelheid Voskuhl 5569

Through regular meetings with faculty advisor, each student will focus on research and writing with the purpose of developing a publishable research paper.

***History of Science 310hf. History of Science Salon**

Catalog Number: 1047

Katharine Park 2974

Half course (throughout the year). .

What is history of science about as a discipline and profession? This half-course meets evenings throughout the academic year to introduce first-year graduate students to the range of debates, questions, and research practices currently shaping the field.

Note: The course is required for first year students in the PhD program and students in the AM program in the History of Science. For the purpose of degree requirements for these students, HS 310 fulfills the HS 201 requirement, as HS 201 has been withdrawn.

Human Evolutionary Biology

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Department of Human Evolutionary Biology

Daniel E. Lieberman, Professor of Human Evolutionary Biology, Harvard College Professor
(Chair)

John C. Barry, Lecturer on Human Evolutionary Biology

Judith F. Chapman, Lecturer on Human Evolutionary Biology

Nancy Lou Conklin-Brittain, Lecturer on Human Evolutionary Biology



Peter T. Ellison, John Cowles Professor of Anthropology
 Russell Dean Greaves, Lecturer on Human Evolutionary Biology
 Carole K. Hooven, Lecturer on Human Evolutionary Biology
 Karen L. Kramer, Associate Professor of Human Evolutionary Biology (*on leave fall term*)
 Kristi Lynn Lewton, Preceptor in Human Evolutionary Biology
 Susan F. Lipson, Lecturer on Human Evolutionary Biology
 Amanda S. Lobell, College Fellow in Human Evolutionary Biology
 Zarin Pearl Machanda, Lecturer on Human Evolutionary Biology
 Luke J. Matthews, Lecturer on Human Evolutionary Biology
 Charles Lindsay Nunn, Associate Professor of Human Evolutionary Biology
 David Pilbeam, Henry Ford II Professor of Human Evolution (*Head Tutor*)
 Andy Russell, Visiting Lecturer on Human Evolutionary Biology
 Maryellen Ruvolo, Professor of Human Evolutionary Biology (*Director of Graduate Studies*)
 Tanya M. Smith, Assistant Professor of Human Evolutionary Biology
 Noreen Tuross, Landon T. Clay Professor of Scientific Archaeology (*on leave spring term*)
 Richard W. Wrangham, Ruth Moore Professor of Biological Anthropology (*on leave 2010-11*)

Other Faculty Offering Instruction in the Department of Human Evolutionary Biology

Andrew A. Biewener, Charles P. Lyman Professor of Biology (*on leave 2010-11*)
 Stacey A. Combes, Assistant Professor of Organismic and Evolutionary Biology
 George V. Lauder, Henry Bryant Bigelow Professor of Ichthyology

Human Evolutionary Biology provides a general foundation in human and organismic biology as part of the Life Sciences cluster of concentrations. It addresses why humans and primates are the way they are from an evolutionary perspective. Understanding the biological bases for the behavioral and physical traits that distinguish humans from other primates is one of the great challenges of modern biology, and is the focus of Human Evolutionary Biology. Students interested in addressing questions about human and non-human primate cognition from the perspective of human evolutionary biology also may pursue a special program of study affiliated with the University-wide Mind, Brain, and Behavior Initiative. For concentration requirements, see the Department of Human Evolutionary Biology website.

Primarily for Undergraduates

[*Human Evolutionary Biology 91r. Supervised Reading and Research](#)

Catalog Number: 3631

David Pilbeam

Half course (fall term; repeated spring term). Hours to be arranged.

Special study of selected topics in human evolutionary biology, given on an individual basis and directly supervised by a member of the Human Evolutionary Biology Faculty.

Note: May be taken for a letter grade or Pass/Fail. Signature of faculty supervisor required.

[*Human Evolutionary Biology 97. Sophomore Tutorial in Human Evolutionary Biology](#)

Catalog Number: 2205

David Pilbeam



Half course (spring term). Hours to be arranged.

An introduction to the issues and methods of human evolutionary biology, focusing on evolutionary theory, the concept of adaptation, and their application to human evolution. Weekly readings and discussions, with biweekly writing assignments that integrate major course themes.

Note: Required of and limited to Human Evolutionary Biology concentrators.

***Human Evolutionary Biology 99a. Tutorial—Senior Year**

Catalog Number: 2840

David Pilbeam

Half course (fall term). Hours to be arranged.

Research and writing of the Senior Thesis.

Note: Limited to honors candidates. Signature of the faculty adviser required.

***Human Evolutionary Biology 99b. Tutorial - Senior Year - (New Course)**

Catalog Number: 61326

David Pilbeam

Half course (spring term). Hours to be arranged.

Research and writing of the Senior Thesis.

Note: Limited to honors candidates. Signature of the faculty adviser required.

Cross-listed Courses

For Undergraduates and Graduates

***Human Evolutionary Biology 1210. Research in Comparative Biomechanics: Seminar - (New Course)**

Catalog Number: 11259

Andrew A. Biewener, Stacey A. Combes, George V. Lauder, and Daniel E. Lieberman

Half course (spring term). Hours to be arranged.

Introduces students to experimental techniques used to investigate the structure and physiology of animals. Each instructor offers research projects that are undertaken in their laboratory (limit 5 students per instructor). Students meet to introduce their project, discuss their work and progress, and to present their final results. An extensive commitment of time in the laboratory is required.

Grades are based on the work completed, the oral presentation, and a short research paper.

Note: Laboratory safety session required.

Prerequisite: Life Sciences 2 or OEB 102 or equivalent preferred.

Human Evolutionary Biology 1310. Hormones and Behavior

Catalog Number: 2265

Carole K. Hooven

Half course (spring term). M., W., F., at 11. EXAM GROUP: 4

An introduction to the interaction between hormones and behavior, emphasizing research in humans. General principles of endocrine physiology are presented. The course then focuses on how hormones affect the brain and body in early development and later in adulthood, and the relationship of hormones to sex and gender. We will explore human reproduction, energy metabolism, mating and sexuality, parental behavior, learning and memory, stress, and



dominance interactions.

Note: This course is a prerequisite for Human Evolutionary Biology 1418. This course, when taken for a letter grade, meets the Core area requirement for Science B.

Human Evolutionary Biology 1312. Human Sexuality: Research and Presentation Seminar

Catalog Number: 5008 Enrollment: Limited to 15.

Judith F. Chapman

Half course (spring term). F., 1–3. EXAM GROUP: 6, 7

An examination of human sexuality from a scientific perspective. Students will read and present primary scientific literature that highlights current research on a variety of topics including: sexual development, gender identity, sexual orientation, cross cultural variations in mating systems, promiscuity, the evolution of monogamy, sexual attraction, sexual communication, including an exploration of the existence of human pheromones, libido and sexual dysfunction.

[Human Evolutionary Biology 1315. Ecology of Modern Hunter Gatherers]

Catalog Number: 2051

Karen L. Kramer

Half course (spring term). Tu., Th., 1–2:30.

This course focuses on the variable ways that hunter-gatherers interface with their environment and make their living, and the implications of this subsistence strategy for their biology and behavior. During the first part of the course, key theoretical issues and debates that surround the study of modern hunter/gatherers will be discussed. Once this foundation is laid, the course will survey modern and historic hunter/gatherers from all the major geographic regions of the world.

Note: Expected to be given in 2011–12.

Human Evolutionary Biology 1318. BioDemography - (New Course)

Catalog Number: 22665

Karen L. Kramer

Half course (spring term). M., W., 1–2:30. EXAM GROUP: 6, 7

How did there get to be so many of us? Population growth has profound effects on people's lives today. It also is one of the remarkable stories of our evolutionary history. This course explores how human patterns of reproduction, disease, death and migration have changed through time and vary around the world today.

Human Evolutionary Biology 1325. Evolution of Technology

Catalog Number: 2357 Enrollment: Limited to 20.

Russell Dean Greaves

Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16

An important aspect of what makes us human is our unique reliance on diverse technologies.

This class develops inferences about the evolution of technology from modern human traditional cultures, the archaeological record, hominin functional morphology, and comparisons with tool use in other primates. Readings, lectures, and discussions emphasize how technology is used for subsistence, shelter, physical protection, and other behaviors that helped ancestral hominins and contemporary humans occupy a range of variable environments.



Human Evolutionary Biology 1330. Primate Social Behavior

Catalog Number: 4332

Zarin Pearl Machanda and Luke J. Matthews

Half course (fall term). M., W., F., at 10. EXAM GROUP: 3

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.

Human Evolutionary Biology 1331. Comparison and Adaptation in Primate Evolutionary Biology

Catalog Number: 8252 Enrollment: Limited to 8.

Charles Lindsay Nunn

Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17

Understanding human evolution requires us to reconstruct the past and identify the adaptive basis of primate traits. How can this be achieved for behavior, language, culture and other traits that lack a clear fossil record? This course will take a hands-on approach to teach new methods for reconstructing evolutionary history. Through readings, computer labs and an independent project, students will investigate cognitive evolution in hominids, primate sociality, and ecological adaptations in humans and nonhuman primates.

Human Evolutionary Biology 1333. Primate Disease Ecology

Catalog Number: 8036 Enrollment: Limited to 15.

Charles Lindsay Nunn

Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

Infectious disease plays a major role in the lives of humans, and the same is true of nonhuman primates. This course will explore infectious diseases in humans and nonhuman primates. We will consider similarities and differences in disease ecology in humans and nonhuman primates, and we will investigate the role of infectious disease in primate - including human - evolution.

[Human Evolutionary Biology 1335. Behavioral Ecology of Chimpanzees]

Catalog Number: 32284

Zarin Pearl Machanda

Half course (spring term). W., 1–4.

An advanced seminar on current topics in behavioral ecology research of chimpanzees and bonobos. Topics will include: foraging, dominance, cooperation, adolescence, reproductive strategies, culture, ranging, cognition, molecular ecology, and relationships. We will discuss behavioral flexibility of chimpanzees between different communities across Africa and learn how to collect and analyze behavioral data. We will compare the behavior of chimpanzees and bonobos with that of humans and examine how these species might serve as models for human evolution.

Note: Expected to be given in 2011–12.

Prerequisite: Human Evolutionary Biology 1330 or Science B-29 or permission of instructor.



Human Evolutionary Biology 1371. Paternity, Fidelity and Parenting

Catalog Number: 0712

Karen L. Kramer

Half course (spring term). Tu., Th., 1–2:30.

Why do males and females have different sexual strategies? This course covers the remarkable diversity in human mating and family relationships. Key topics covered include the ecology of sex differences, male and female histories, mate choice, male coercion and female choice, reproductive strategies, the sexual division of labor and evolution of the human family. Emphasis is placed on behavioral aspects of male/female relationships across primates, and human societies.

Note: Junior research seminar. Taught every other year, alternating with Human Evolutionary Biology 1315.

***Human Evolutionary Biology 1375. Testosterone and Human Behavior**

Catalog Number: 6933 Enrollment: Limited to 15.

Judith F. Chapman

Half course (fall term). Th., 3–5. EXAM GROUP: 17, 18

An exploration of current research in human behavior and testosterone, including the relationships between normal variation in testosterone and variation in traits such as cognition, aggression, personality traits, and sexual behavior within both males and females. Medical uses of testosterone, such as anabolic steroids, hormone replacement therapy, and reassignment, are explored.

Note: Preference given to Human Evolutionary Biology and Biological Anthropology concentrators.

Human Evolutionary Biology 1383. The Evolution of Altruism, Selfishness and Spite

Catalog Number: 45731

Andy Russell

Half course (fall term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17

We expect evolutionary fitness to be maximized by selfishness. Why then do prokaryotes cooperate to make eukaryotes or individuals cooperate to make societies? We will examine the extent and degree of intra- and inter-specific cooperation from bacteria to humans. We will identify the different reasons for cooperative, selfish and spiteful behavior in humans and then investigate the ecological and evolutionary causes and consequences of these in humans and other animals.

Prerequisite: Introductory behavior course or with permission of instructor.

Human Evolutionary Biology 1400. Nature vs. Nurture: What Makes You Who You Are? - (New Course)

Catalog Number: 89294

Andy Russell

Half course (spring term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17

Evolution by natural selection should cause individuals to grow, reproduce and die in a manner that maximizes the number of surviving offspring they produce in their lifetimes. This lecture course will examine how fast and to what extent individuals should grow, when they mature, when they produce offspring and the number they produce, and finally when they senesce and



die. The course will draw on examples from throughout the animal kingdom with particular emphasis on humans.

Human Evolutionary Biology 1405. The Biology of Aging

Catalog Number: 30624

Noreen Tuross

Half course (fall term). M., 2:30–4:30. EXAM GROUP: 7, 8, 9

The course will focus on human aging by examining experimental models of aging, mechanisms involved in aging, the role of diet and infection in the aging process and the evolution of the human life span.

Prerequisite: Life Sciences 1b.

Human Evolutionary Biology 1414. Evolution of Human Diet: Research Seminar

Catalog Number: 9881

Nancy Lou Conklin-Brittain

Half course (fall term). W., 1–3. EXAM GROUP: 6, 7

An exploration of modern controversies in human nutrition from an evolutionary perspective, using primate and human dietary adaptations, digestive physiologies, feeding behavior and ecology. We will explore topics including: nutritional requirements, optimal foraging, maternal and infant nutrition, the nature of early hominid diets, the role of hunting and carnivory in human evolution, and finally, the nutritional impact of agriculture and technology on dietary composition and modern human diets.

***Human Evolutionary Biology 1418. Endocrinology and Behavior: Research Seminar**

Catalog Number: 1437 Enrollment: Limited to 8.

Susan F. Lipson

Half course (fall term). M., W., (F.), at 11, and a weekly laboratory either M. or W., 2-5. EXAM GROUP: 4

An introduction to laboratory techniques and research design in behavioral endocrinology. Students conduct pilot research projects.

Note: Preference given to Human Evolutionary Biology and Biological Anthropology concentrators.

Prerequisite: Human Evolutionary Biology 1310 or with permission of instructor.

Human Evolutionary Biology 1420. Human Evolutionary Anatomy

Catalog Number: 6233

Tanya M. Smith

Half course (spring term). M., W., F., at 10. EXAM GROUP: 3

How did the human body evolve, and how does it develop, grow and function? An integrative overview of human anatomy and evolution, with a focus on the musculo-skeletal system, including aspects of developmental biology, functional morphology, physiology, and the fossil record. Topics include: muscle and skeletal development, anatomy, and histology; the biomechanics of muscles and bones; craniofacial growth and development; the functional morphology of chewing, respiration, vocalization, locomotion, and other activities.

Prerequisite: Life Sciences 2 or with permission of instructor.



[Human Evolutionary Biology 1421. Teeth]

Catalog Number: 8758 Enrollment: Limited to 6.

Tanya M. Smith

Half course (fall term). W., 3–5:30. EXAM GROUP: 8, 9

Teeth are one of the best preserved and most commonly-recovered elements in fossil assemblages. This seminar will focus on ways in which dental remains may inform studies of fossil primate growth and development, ecology, and social structure. Students will read and discuss current scientific literature, and will conduct pilot research projects.

Note: Expected to be given in 2011–12. Preference given to Human Evolutionary Biology and Biological Anthropology concentrators and graduate students.

Human Evolutionary Biology 1435. Primate Ecology and Evolution - (New Course)

Catalog Number: 83093

David Pilbeam, John C. Barry, and Zarin Pearl Machanda

Half course (spring term). Tu., Th., 10–11:30, and a weekly section to be arranged. EXAM GROUP: 12, 13

The course will explore how primates have evolved and adapted to their environments with particular attention given to critical drivers of these adaptations such as food, predation and sexual selection. We will examine both living primates and their fossil ancestors and discuss the different temporal perspectives of "ecological time" and "paleontological time". Topics will include adaptations for food harvesting and processing, life history strategies, sexual dimorphism, locomotion, and grouping patterns.

Prerequisite: None, but Life Sciences 2, Science of Living Systems 16, Human Evolutionary Biology 1420, or Human Evolutionary Biology 1330 would be helpful.

[*Human Evolutionary Biology 1450. Human Evolutionary Genetics]

Catalog Number: 1769 Enrollment: Limited to 15.

Amanda S. Lobell

Half course (fall term). M., 2–5.

This course investigates the human genome in an evolutionary context. Topics to be covered include human and primate comparative genetics, the genetic evidence for modern human origins, human genetic diversity and its functional implications (including disease), and natural selection on the human genome.

Note: Expected to be given in 2011–12.

Prerequisite: Life Sciences 1b.

Human Evolutionary Biology 1455. Primate Genetics

Catalog Number: 97253 Enrollment: Limited to 15.

Amanda S. Lobell

Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

The last few years have witnessed a revolution in the study of primate biology thanks to newly available genetic data. This seminar integrates genetics with behavior and ecology to consider key topics in primate evolution. Major questions posed by this class include how DNA-based evolutionary relationships provide information about primate anatomy, physiology and behavior; the role of dispersal, paternity, and kinship in structuring primate societies; and the application of behavioral genetics to humans and primates.



Prerequisite: Life Sciences 1b. Human Evolutionary Biology 1330 and Human Evolutionary Biology 1463 helpful.

***Human Evolutionary Biology 1463. Molecular Evolution of the Primates**

Catalog Number: 3359

Maryellen Ruvolo

Half course (fall term). W., 2–5. EXAM GROUP: 7, 8, 9

Introduction to the primates, emphasizing their molecular evolutionary history and the forces that mold their genomes. Topics include the neutral theory of molecular evolution, molecular clock concept and its applications, evolution of multigene families, relationships between primate morphological and molecular evolution, molecular convergences, evidence for horizontal gene transfer in primate genomes, and evolution of simian and human immunodeficiency viruses, color vision genes.

Prerequisite: Life Sciences 1b.

[Human Evolutionary Biology 1490. Primate Evolution]

Catalog Number: 7376

David Pilbeam and John C. Barry

Half course (spring term). Tu., Th., 1:30–3:30.

A lecture/discussion course on primate evolution from a paleontological perspective. Following a survey of major primate groups as adaptive radiations, the hominoid fossil record will be reviewed within the context of the mammalian record, a particular focus being the relationship between adaptive, faunal, and climate change. Systems that can be inferred from the fossil record (for example, positional and foraging behaviors) will be discussed comparatively. Section meetings will focus primarily on the fossil record.

Note: Expected to be given in 2011–12. No final exam; research paper required. Can be taken by Human Evolutionary Biology concentrators as a Junior Research Seminar. Introductory courses in paleoanthropology, evolution, genetics, or anatomy helpful.

Human Evolutionary Biology 1530. Hominid Paleontology and Evolution - (New Course)

Catalog Number: 52879

David Pilbeam and John C. Barry

Half course (fall term). Tu., Th., 1–2:30, and a weekly section to be arranged.

A lecture, discussion, and research course using cast and comparative collections, focusing on important issues in hominid paleobiology: ape ancestors, human ancestors, and early hominin radiations; earliest *Homo*; neandertals and modern humans; the role of environmental change. Can be taken as a research seminar.

Prerequisite: Life Sciences 2 or Science of Living Systems 16 or Human Evolutionary Biology 1420 or with permission of instructor.

[*Human Evolutionary Biology 1580. Paleoecology and Human Evolution]

Catalog Number: 3509

John C. Barry

Half course (spring term). Tu., 1:30–3:30.

A lecture-seminar course on the principles of paleoecology, including methods used to reconstruct past climate and ecosystems. There will be an emphasis on the ancient environments



and paleoecology of early hominids. May be taken as a Research Seminar in Biological Anthropology or Human Evolutionary Biology.

Note: Expected to be given in 2012–13.

Prerequisite: With permission of instructor.

Cross-listed Courses

[Life Sciences 1b. An Integrated Introduction to the Life Sciences: Genetics, Genomics, and Evolution](#)

[Life Sciences 2. Evolutionary Human Physiology and Anatomy](#)

[*OEB 121a. Research in Comparative Biomechanics: Seminar](#)

[Science of Living Systems 16. Human Evolution and the Human Body](#)

[Science of Living Systems 21. Evolutionary Medicine - \(New Course\)](#)

Primarily for Graduates

[*Human Evolutionary Biology 2205. Current Topics in Isotope Ecology and Energetics - \(New Course\)](#)

Catalog Number: 46678

Noreen Tuross

Half course (fall term). Hours to be arranged.

Reading and discussion of current literature in isotope uses in ecology and energetics.

Note: Open to graduate students.

[*Human Evolutionary Biology 2312. Current Topics in Human Evolutionary Genetics](#)

Catalog Number: 1175

Maryellen Ruvolo

Half course (spring term). Hours to be arranged.

Critical reading of current literature on the genetics of living humans and discussion of evolutionary implications.

Note: Open to first and second year graduate students in Human Evolutionary Biology.

[*Human Evolutionary Biology 2313r. Topics in Reproductive Ecology and Life History - \(New Course\)](#)

Catalog Number: 88581 Enrollment: Limited to graduate students in Human Evolutionary Biology.

Peter T. Ellison

Half course (fall term). Hours to be arranged.

A graduate seminar focusing on different contemporary issues in human reproductive ecology and life history evolution. The topic for 2010 will be evolutionary approaches to adolescence.

[Human Evolutionary Biology 2430. Behavioral Biology Seminar]

Catalog Number: 3777

Karen L. Kramer

Half course (spring term). Hours to be arranged.

Reading and discussion of current research in the behavioral ecology of humans and nonhuman



primates. Emphasis placed on comparative and interdisciplinary approaches.

Note: Expected to be given in 2011–12. Required of entering graduate students in Human Evolutionary Biology. Open to other graduate students. Limited to graduate students.

[Human Evolutionary Biology 2460. Issues in Human Evolution]

Catalog Number: 1073

David Pilbeam

Half course (spring term). Hours to be arranged.

A discussion course for first and second year graduate students in Human Evolutionary Biology. Topics will include origins of hominids, radiation of hominins, origins of the genus *Homo*, and origins of *Homo sapiens*.

Note: Expected to be given in 2011–12. To be taken while auditing Science of Living Systems 16.

Cross-listed Course

[*Psychology 2381. Hot Topics in Cognitive Science and Neuroscience]

Graduate Courses of Reading and Research

***Human Evolutionary Biology 3000. Reading and Research**

Catalog Number: 99167

John C. Barry 1892, Peter T. Ellison 7413, Karen L. Kramer 5769 (on leave fall term), Daniel E. Lieberman 3980, Susan F. Lipson 1969, Amanda S. Lobell 6242, Charles Lindsay Nunn 6146, David Pilbeam 7224, Maryellen Ruvolo 2512, Tanya M. Smith 6147, Noreen Tuross 4845 (on leave spring term), and Richard W. Wrangham 2349 (on leave 2010-11)

Special reading in selected topics under the direction of members of the department.

Note: Consult the appropriate member of the department.

***Human Evolutionary Biology 3001. Reading for General Examination**

Catalog Number: 47645

Members of the Department

Individual reading in preparation for the general examination for the doctoral degree.

Note: Restricted to candidates for the doctoral degree and ordinarily to those who have completed at least one year in residence.

***Human Evolutionary Biology 3200. Graduate Seminar in Human Evolutionary Biology - (New Course)**

Catalog Number: 31571

David Pilbeam 7224 and Amanda S. Lobell 6242

Half course (fall term). Hours to be arranged.

Discussion of adaptations and the process of adaptation using examples from various areas of human evolutionary biology.

Note: Open to graduate students in Human Evolutionary Biology.



***Human Evolutionary Biology 3310. Experimental Methods**

Catalog Number: 9602

Members of the Department

***Human Evolutionary Biology 3320. Advanced Laboratory and Dissertations**

Catalog Number: 62752

Members of the Department

***Human Evolutionary Biology 3337. Advanced Laboratory Methods in Human Endocrinology**

Catalog Number: 5345

Susan F. Lipson 1969

Note: Intended for graduate students engaged in laboratory research on human endocrinology.

***Human Evolutionary Biology 3350. Laboratory Methods in Primate and Human Nutrition**

Catalog Number: 62293

Nancy Lou Conklin-Brittain 6142 (fall term only) and Daniel E. Lieberman 3980 (spring term only)

Independent laboratory study in the biochemical analysis of plant and animal foods, and of human and animal digestive physiology and feeding behavior.

***Human Evolutionary Biology 3400. Advanced Reading and Research**

Catalog Number: 77859

Members of the Department

Note: Consult the appropriate member of the department.

***Human Evolutionary Biology 3500. Direction of the Doctoral Dissertations**

Catalog Number: 26337

Members of the Department

Note: Consult the appropriate member of the department.

***Human Evolutionary Biology 3595. Laboratory Methods in Evolutionary Genetics**

Catalog Number: 7934

Maryellen Ruvolo 2512

Note: Limited to graduate students conducting doctoral dissertation research.

***Human Evolutionary Biology 3600. Current Issues in Human Evolutionary Biology**

Catalog Number: 9373

Members of the Department

Half course (fall term; repeated spring term). Tu., at 12.

Weekly seminars in human evolutionary biology.



Inner Asian and Altaic Studies

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Committee on Higher Degrees in Inner Asian and Altaic Studies

Leonard W. J. van der Kuijp, Professor of Tibetan and Himalayan Studies (*Chair*) (*on leave fall term*)

Mark C. Elliott, Mark Schwartz Professor of Chinese and Inner Asian History (*Acting Chair*)

Rowan K. Flad, Associate Professor of Anthropology

Janet Gyatso, Hershey Professor of Buddhist Studies (*Divinity School*)

Cemal Kafadar, Vehbi Koc Professor of Turkish Studies

C. C. Lamberg-Karlovsky, Stephen Phillips Professor of Archaeology and Ethnology (*on leave fall term*)

Terry D. Martin, George F. Baker III Professor of Russian Studies

Michael J. Puett, Professor of Chinese History

David J. Roxburgh, Prince Alwaleed bin Talal Professor of Islamic Art History

Michael Witzel, Wales Professor of Sanskrit

Richard K. Wolf, Professor of Music

The Committee supervises the work of graduate students whose interest in Inner Asia is not confined to languages alone, or history alone, but encompasses linguistics, history, religion, art history, and general cultural study. Courses relating to Inner Asian Studies are given by members of the Committee and other faculty in the departments of Anthropology, East Asian Languages and Civilizations, History, History of Art and Architecture, Linguistics, Near Eastern Languages and Civilizations, and Sanskrit and Indian Studies, and by the Committee on the Study of Religion. Interested students should consult these sections of the catalog. The Committee has offices at 1730 Cambridge Street, Cambridge, MA, 02138; 617-495-3777.

Latin American and Iberian Studies

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION



Faculty of the Committee on Latin American and Iberian Studies

David L. Carrasco, Neil L. Rudenstine Professor for the Study of Latin America in the Faculty of Divinity and the Faculty of Arts and Sciences (*Chair*)

Thomas B. F. Cummins, Dumbarton Oaks Professor of the History of Pre-Columbian and Colonial Art

Jorge I. Domínguez, Antonio Madero Professor for the Study of Mexico

Bradley S. Epps, Professor of Romance Languages and Literatures and of Studies of Women, Gender, and Sexuality

Brian D. Farrell, Professor of Biology

William L. Fash, Bowditch Professor of Central American and Mexican Archaeology and Ethnology

Luis Fernández-Cifuentes, Robert S. and Ilse Friend Professor of Romance Languages and Literatures, Harvard College Professor

Jeffrey Frieden, Stanfield Professor of International Peace

Mary M. Gaylord, Sosland Family Professor of Romance Languages and Literatures

Merilee Grindle, Director of the David Rockefeller Center for Latin American Studies and

Edward S. Mason Professor of International Development at the Kennedy School of Government (*Kennedy School*) (*ex officio*)

James Hanken, Professor of Biology and Curator of Herpetology (*on leave fall term*)

N. Michele Holbrook, Charles Bullard Professor of Forestry (*on leave spring term*)

Steven R. Levitsky, Professor of Government (*on leave 2010-11*)

José Rabasa, Visiting Professor of Romance Languages and Literatures

Doris Sommer, Ira Jewell Williams, Jr. Professor of Romance Languages and Literatures and of African and African American Studies

Gary Urton, Dumbarton Oaks Professor of Pre-Columbian Studies

The Committee on Latin American and Iberian Studies (CLAIS) is composed of a multidisciplinary group of FAS faculty associated with the activities of the David Rockefeller Center for Latin American Studies, which promotes and coordinates research, teaching, and public programs on Latin American and related fields such as the Caribbean, the Iberian peninsula, and the Latin American Diaspora in the United States.

Founded in 1994, Harvard's David Rockefeller Center for Latin American Studies (DRCLAS) works to increase knowledge of the cultures, economies, histories, environment, and contemporary affairs of past and present Latin America. For complete information on DRCLAS visit the David Rockefeller Center for Latin American Studies website.

Although the CLAIS does not offer an undergraduate concentration or an advanced degree, it awards a Certificate in Latin American Studies to undergraduate and graduate students who have completed an approved course of study as part of their work toward a degree in many concentrations. For complete information on Latin American Studies certificate requirements, visit the David Rockefeller Center for Latin American Studies website ("Undergraduate Certificate in Latin American Studies" or "Certificate in Latin American Studies - Graduate Students").



The following departments and professional schools offer courses related to Latin America. A more detailed description of these courses may be found in this catalog under the appropriate department, or on the course websites of the different professional schools.

Departments with Courses of Interest:

- General Education
- Freshman Seminars
- Core Curriculum
- Anthropology
- Economics
- English
- Government
- History
- History of Literature
- History of Art and Architecture
- History of Science
- Organismic and Evolutionary Biology
- The Study of Religion
- Romance Languages and Literatures
- Social Studies
- Sociology

Professional Schools with Courses of Interest:

- Harvard Business School
- Harvard Graduate School of Design
- Harvard Divinity School



- Harvard Graduate School of Education
- Harvard Kennedy School
- Harvard Law School
- Harvard Medical School
- Harvard School of Public Health
- Harvard Extension School

Related website pages, on the David Rockefeller Center for Latin American Studies website:

- Guide to Courses
- Student Resources
- College Student Resources (Undergraduate Grants and Prizes)
- Graduate and Professional School Students Resources

Life Sciences

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Committee on Life Sciences

Erin K. O'Shea, Professor of Molecular and Cellular Biology and of Chemistry and Chemical Biology (*Chair*)

Mahzarin R. Banaji, Richard Clarke Cabot Professor of Social Ethics

Tamara J. Brenner, Lecturer on Molecular and Cellular Biology

John E. Dowling, Gordon and Llura Gund Professor of Neurosciences

Kevin C. Eggan, Associate Professor of Stem Cell & Regenerative Biology

Rachelle Gaudet, Professor of Molecular and Cellular Biology

Ann Georgi (*ex officio*)

David A. Haig, George Putnam Professor of Organismic and Evolutionary Biology, Harvard College Professor

Robert D. Howe, Abbott and James Lawrence Professor of Engineering, Area Dean for



Bioengineering

Daniel E. Kahne, Professor of Chemistry and Chemical Biology

Stephanie H. Kenen (*ex officio*)

Richard M. Losick, Maria Moors Cabot Professor of Biology

Robert A. Lue, Professor of the Practice of Molecular and Cellular Biology

Lee Ann Michelson (*ex officio*)

David Pilbeam, Henry Ford II Professor of Human Evolution

Other Faculty Offering Instruction in Life Sciences

Barry R. Bloom, Harvard University Distinguished Service Professor and Joan L. and Julius H. Jacobson Professor of Public Health (*Public Health*)

Jon Clardy, Hsien Wu and Daisy Yen Wu Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)

Peter T. Ellison, John Cowles Professor of Anthropology

Daniel L. Hartl, Higgins Professor of Biology

Roberto G. Kolter, Professor of Microbiology and Molecular Genetics (*Medical School*)

George V. Lauder, Henry Bryant Bigelow Professor of Ichthyology

Daniel E. Lieberman, Professor of Human Evolutionary Biology, Harvard College Professor

Sirinya Matchacheep, Preceptor in Chemistry and Chemical Biology

Maryellen Ruvolo, Professor of Human Evolutionary Biology

Gregory C. Tucci, Senior Lecturer on Chemistry and Chemical Biology

Alain Viel, Senior Lecturer on Molecular and Cellular Biology

Life Sciences Courses are jointly organized by faculty members of the Chemistry and Chemical Biology, Human Evolutionary Biology, Molecular and Cellular Biology, Organismic and Evolutionary Biology, Psychology, and Stem Cell and Regenerative Biology Departments. Life Sciences Courses fulfill requirements in multiple Life Sciences Concentrations, the Core Curriculum, and General Education and are taught by teams of faculty from multiple departments. More information on Life Sciences Education may be found online at: www.lifescience.fas.harvard.edu.

Incoming students interested in the life sciences should take Harvard's online Chemistry and Biology Placement Tests, and should take advantage of the science advising available in the Science Center the week before classes begin. Members of the Life and Physical Sciences Departments will be available during this period to advise students. The Harvard Chemistry and Biology Placement Tests recommend the appropriate beginning course for students interested in pursuing the life sciences, either Life Sciences 1a or Life and Physical Sciences A. Life and Physical Sciences A is a one-term introduction to fundamental chemical and biological concepts. Life Sciences 1a integrates chemistry with molecular and cellular biology.

Life and Physical Sciences

Primarily for Undergraduates

**Life and Physical Sciences A. Foundational Chemistry and Biology**

Catalog Number: 3956

*Gregory C. Tucci, Tamara J. Brenner, and Sirinya Matchacheep**Half course (fall term). M., W., F., at 9, and a weekly one-hour of discussion section, three-hour lab, and one-hour of review session. EXAM GROUP: 2*

This course introduces fundamental concepts in chemistry and biology. Topics in chemistry include stoichiometry, acids and bases, aqueous solutions, gases, thermochemistry, electrons in atoms, and chemical bonding. Topics in biology include the transfer of information from DNA to RNA to protein, genetic inheritance, mitosis and meiosis, and cell structure.

Note: Students should use their scores on the Chemistry and Biology Placement Tests to determine whether to enroll in Life and Physical Sciences A or Life Sciences 1a. This course assumes fluency with high school algebra. Students who have completed Life Sciences 1a, Physical Sciences 1, Chemistry 17 or Chemistry 20 may not take Life and Physical Sciences A for credit. This course, when taken for a letter grade, meets the General Education Requirement for Science of Living Systems. This course, when taken for a letter grade, meets the Core area requirement for either Science A or Science B, but not both.

Life Sciences***Primarily for Undergraduates*****Life Sciences 1a. An Integrated Introduction to the Life Sciences: Chemistry, Molecular Biology, and Cell Biology**

Catalog Number: 2137

*Robert A. Lue, Daniel E. Kahne, and Erin K. O'Shea**Half course (fall term). Tu., Th., 1-2:30, and three hours of laboratory/discussion weekly. EXAM GROUP: 15, 16*

What are the fundamental features of living systems? What are the molecules imparting them and how do their chemical properties explain their biological roles? The answers form a basis for understanding the molecules of life, the cell, diseases, and medicines. In contrast with traditional presentations of relevant scientific disciplines in separate courses, we take an integrated approach, presenting chemistry, molecular biology, biochemistry, and cell biology framed within central problems such as the biology of HIV and cancer.

Note: This course, in combination with Life Sciences 1b, constitutes an integrated introduction to the Life Sciences. This course, when taken for a letter grade, meets the General Education requirement in Science of Living Systems or the Core area requirement for Science A.

Life Sciences 1b. An Integrated Introduction to the Life Sciences: Genetics, Genomics, and Evolution

Catalog Number: 2159

*Daniel L. Hartl and Maryellen Ruvolo**Half course (spring term). Tu., Th., 1-2:30, and three hours of laboratory/discussion weekly.**EXAM GROUP: 15, 16*

What is the basis for inherited traits? How do traits change over time - between generations and species? This course takes an integrated approach, showing how evolution and genetics are intimately related and how genomics provides tools to analyze case studies of human disease



(e.g., autism, schizophrenia), normal variation (e.g. lactose "intolerance"), and evolution (e.g., the Neandertal genome, language). Quantitative methods essential for interpreting genetic data are introduced. This class has been newly redesigned for 2010-2011.

Note: May not be taken for credit if Biological Sciences 50 has already been taken. This course, in combination with Life Sciences 1a, constitutes an integrated introduction to the Life Sciences. This course, when taken for a letter grade, meets the General Education requirement in Science of Living Systems or the Core area requirement for Science B.

Life Sciences 2. Evolutionary Human Physiology and Anatomy

Catalog Number: 9007 Enrollment: Limited to 200.

George V. Lauder, Peter T. Ellison, and Daniel E. Lieberman

Half course (fall term). M., W., F., at 1, and three hours of laboratory/discussion weekly. EXAM GROUP: 6

Why is the human body the way that it is? This course explores human anatomy and physiology from an integrated framework, combining functional, comparative, and evolutionary perspectives on how organisms work. Major topics, which follow a life-course framework, include embryogenesis, metabolism and energetics, growth and development, movement and locomotion, food and digestion, stress and disease, and reproduction. Also considered is the relevance of human biology to contemporary issues in human health and biology.

Note: This course replaces OEB 102. This course, when taken for a letter grade, meets the General Education requirement in Science of Living Systems or the Core area requirement for Science B.

[Life Sciences 60 (formerly MCB 60). Ethics, Biotechnology, and the Future of Human Nature]

Catalog Number: 2164

Douglas A. Melton and Michael J. Sandel

Half course (spring term). Hours to be arranged.

Explores the moral, political, and scientific implications of new developments in biotechnology. Does science give us the power to alter human nature? If so, how should we exercise this power? The course examines the science and ethics of stem cell research, human cloning, sex selection, genetic engineering, eugenics, genetic discrimination, and human-animal hybrids. Readings will be drawn from literature in the areas of biology, philosophy, and public policy.

Note: Expected to be given in 2011–12. May not be taken concurrently with Government 1093. May not be taken for credit if Government 1093 has already been taken. The course is open to both science and non-science concentrators. Moral Reasoning 22 is recommended as a background. Enrollment may be limited. This course, when taken for a letter grade, meets the General Education requirement in Ethical Reasoning or the Core area requirement for Moral Reasoning

Cross-listed Courses

[MCB 192. Principles of Drug Discovery and Development]

Science of Living Systems 11. Molecules of Life

[*Visual and Environmental Studies 54s. Animating Science]

***For Undergraduates and Graduates******Life Sciences 100r (formerly *MCB 100r). Experimental Research in the Life Sciences**

Catalog Number: 2122 Enrollment: Limited to 30.

*Alain Viel**Half course (fall term; repeated spring term). Fall: F., 3–5; Spring: Tu., 2:30–4:30. EXAM GROUP: Fall: 8, 9; Spring: 16, 17, 18*

A laboratory course that immerses students in a dynamic project-based research environment. Participate in experimental projects directly linked with ongoing faculty research. Students select a project from the following research tracks: neurobiology, microbial sciences, cell biology, and synthetic biology. New projects, including some in other research fields, are offered every term. In a highly collaborative atmosphere, students form a fully-functional and diverse research group based on the sharing of ideas and progress reports between projects.

Note: Location of the first meeting will be announced on the course website. Open to freshmen, sophomores, juniors, and seniors, regardless of concentration, and suitable for students either with or without extensive laboratory experience. The course may only be repeated once and the second enrollment must be approved by the instructor.

Prerequisite: Life and Physical Sciences A or Life Sciences 1a or permission of the instructor. Students interested in a neurobiology project will need MCB 80 or permission of the instructor.

[Life Sciences 110. A Microbial World]

Catalog Number: 5701

*Roberto G. Kolter (Medical School) and Jon Clardy (Medical School)**Half course (spring term). Hours to be arranged.*

This course will cover the broad spectrum of microbial sciences from biodiversity to the crucial impact of microorganisms on geological history, the environment, climate, and world health. The course will be taught by an academically diverse team of three Microbial Sciences Initiative (MSI) faculty at a rigorous and fast-paced level appropriate for upper-level undergraduates. Topics include the origins and molecules of life, biogeochemical cycles, microbial diversity, and ecology.

Note: Expected to be given in 2011–12.

Prerequisite: Ordinarily completion of Life and Physical Sciences A or Life Sciences 1a or higher, or Physical Sciences 1 or higher, or permission of the instructor.

Life Sciences 120. Global Health Threats - (New Course)

Catalog Number: 98532 Enrollment: Limited to 100.

*Barry R. Bloom (Public Health) and Richard M. Losick**Half course (spring term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16*

The multidisciplinary application of epidemiology, molecular biology and genetics, pathogenesis, drug discovery, immunology and vaccine development, and economic analysis to understanding and combating major threats to human health in developing countries. Emphasis will be on critical readings and scientific writing. Grades will be based on papers in which students will propose the application of multidisciplinary approaches to global health threats not covered in lecture.

Prerequisite: Life Sciences 1a and 1b or LPSA and one additional course from the following:



Chemistry 27, Engineering 53, Life Sciences 2, MCB 52, MCB54, OEB 10, OEB 53, or SCRB 10, or permission of the instructors.

For additional courses in the Life Sciences, see offerings in the following chapters:

Chemical and Physical Biology

Chemistry and Chemical Biology

Human Evolutionary Biology

Molecular and Cellular Biology

Neurobiology

Organismic and Evolutionary Biology

Psychology

Stem Cell and Regenerative Biology

Linguistics

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Department of Linguistics

Gennaro Chierchia, Haas Foundations Professor of Linguistics (*Chair*)

Michael Becker, Lecturer on Linguistics

Amy Rose Deal, Assistant Professor of Linguistics

Michael S. Flier, Oleksandr Potebnja Professor of Ukrainian Philology

C.-T. James Huang, Professor of Linguistics (*Director of Graduate Studies*) (*on leave spring term*)

Jay Jasanoff, Diebold Professor of Indo-European Linguistics and Philology (*on leave fall term*)

Maria Polinsky, Professor of Linguistics (*Director of Undergraduate Studies*)

Nina Radkevich, College Fellow in the Department of Linguistics

Jeremy Rau, Professor of Linguistics and of the Classics



Other Faculty Offering Instruction in the Department of Linguistics

Alfonso Caramazza, Daniel and Amy Starch Professor of Psychology (*on leave spring term*)
Wesley M. Jacobsen, Professor of the Practice of the Japanese Language and Director of the Japanese Language Program (*on leave 2010-11*)
Stacey Katz Bourns, Senior Preceptor in Romance Languages and Literatures
Susumu Kuno, Professor of Linguistics, Emeritus
Steven Pinker, Johnstone Family Professor of Psychology, Harvard College Professor
P. Oktor Skjaervo, Aga Khan Professor of Iranian (*on leave spring term*)
Jesse Snedeker, Professor of Psychology

See also other course listings under the following departments of languages and literatures: Celtic, the Classics, East Asian, English, Germanic, Near Eastern, Romance, Sanskrit and Indian Studies, and Slavic; Social Analysis 34 (Core); and the linguistic offerings at MIT.

Primarily for Undergraduates

Linguistics 83. Language, Structure, and Culture

Catalog Number: 8319

Maria Polinsky

Half course (fall term). M., W., at 11. EXAM GROUP: 4

What do the world's almost 7,000 languages have in common? Why do they show recurrent commonalities and principled differences? What do they reveal about the human ability for speaking and thinking? How do languages develop? How do they die? This course addresses these and related questions while introducing the languages of the world; their distribution, recurrent structural properties, and genetic classification; processes of language contact; and the relationship between language and the brain.

[Linguistics 88. Language and Cognition]

Catalog Number: 5126

Instructor to be determined

Half course (fall term). Hours to be arranged.

What does language tell us about the human brain? We will approach this question from various psycholinguistic and neurolinguistic perspectives: speech perception and perceptual illusions; language disorders; blind sight and split brain effects; brain imaging; neural networks and computer modeling of language. We will also touch on the problems of speech recognition and speech synthesis, focusing on the light that these topics shed on the nature of linguistic knowledge.

Note: Expected to be given in 2011–12.

***Linguistics 91r. Supervised Reading and Research**

Catalog Number: 1100

Maria Polinsky and members of the Department

Half course (fall term; repeated spring term). Hours to be arranged.

Independent study with a faculty member. For students who wish to pursue a particular linguistic topic not covered in other course offerings.



Note: Students should consult the Head Tutor about having this course count towards the concentration.

***Linguistics 97r. Group Tutorial — Sophomore Year**

Catalog Number: 1791

Maria Polinsky and members of the Department

Half course (fall term; repeated spring term). Hours to be arranged.

Intensive study in a selected linguistic area such as phonology, syntax, historical linguistics, phonetics, morphology, semantics, psycholinguistics, acquisition, sociolinguistics, creole studies, or computational linguistics. Meets as two six-week small-group tutorials, in the spring term.

Note: Required of concentrators.

***Linguistics 98a. Group Tutorial — Junior Year**

Catalog Number: 4222

Maria Polinsky and members of the Department

Half course (fall term; repeated spring term). Hours to be arranged.

Meets as two six-week small-group tutorials, both held in the fall term, each covering one of the areas of linguistics listed under Linguistics 97r.

Note: Required of concentrators.

***Linguistics 98b. Tutorial — Junior Year**

Catalog Number: 7273

Maria Polinsky and members of the Department

Half course (fall term; repeated spring term). Hours to be arranged.

Individual tutorial with a faculty member.

Note: Required of concentrators.

***Linguistics 99a (formerly *Linguistics 99). Tutorial — Senior Year**

Catalog Number: 3082

Maria Polinsky

Half course (fall term). M., 1–3.

Group tutorial led by the Head Tutor with the participation of students' thesis advisors 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: Both Linguistics 99a and 99b are required of all senior honors concentrators. Students who wish to enroll must obtain the signature of the Head Tutor.

***Linguistics 99b. Tutorial - Senior Year**

Catalog Number: 2561

Maria Polinsky

Half course (spring term). 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: Both Linguistics 99a and 99b are required of all senior honors concentrators. Students who wish to enroll must obtain the signature of the Head Tutor.

Cross-listed Courses

Empirical and Mathematical Reasoning 11. Making Sense: Language, Logic, and Communication

For Undergraduates and Graduates

[Linguistics 100. Second Language Acquisition]

Catalog Number: 96999

Wesley M. Jacobsen

Half course (fall term). M., 3–5.

An overview of second-language teaching and learning focused on theoretical models, learning objectives, developmental stages, materials design, and the use of new technology in teaching. The course explores the nature of second language acquisition, focused specifically on the needs of graduate students teaching a second language.

Note: Expected to be given in 2011–12.

Linguistics 110. Introduction to Linguistics

Catalog Number: 1498

Amy Rose Deal

Half course (spring term). M., W., at 11; and a weekly section to be arranged. EXAM GROUP: 4

An introduction to contemporary linguistic theory and methods of linguistic analysis: phonetic transcription, phonological, morphological, and syntactic analysis, and methods in comparative and historical linguistics. Some psycholinguistic aspects of language will also be examined. The discussion will draw on data from a wide variety of languages.

Note: This course, when taken for a letter grade, meets the Core area requirement for Social Analysis.

Linguistics 112a. Introduction to Syntactic Theory

Catalog Number: 7318

Nina Radkevich

Half course (spring term). Tu., Th., at 11. EXAM GROUP: 13

An introduction to syntactic theory, analysis and argumentation in the model of generative grammar. Discusses analyses and hypotheses of grammatical structure forming the foundation of current syntactic theory. Emphasis on constituent structure analysis, motivation for transformations, constraints on rule application and conditions on representations. Survey of syntactic phenomena, including argument structure, movement, and anaphora.

Linguistics 112b. Intermediate Syntax

Catalog Number: 4730

C.-T. James Huang

Half course (fall term). W., 3–5. EXAM GROUP: 8, 9

Continuation of 112a. Fundamental principles and parameters of Government and Binding



Theory.

Prerequisite: Linguistics 112a.

[Linguistics 114. Introduction to Morphology]

Catalog Number: 1289

Members of the Department

Half course (spring term). W., at 11.

An introduction to the analysis of word structure. Topics include the place of word formation in relation to phonological and syntactic phenomena, the nature of the lexicon, current theories of morphology, including Distributed Morphology. Consideration of morphological issues in psycholinguistics. Emphasis on the analysis of morphological phenomena in a wide range of typologically diverse languages.

Note: Expected to be given in 2011–12.

Linguistics 115a. Introduction to Phonetics and Phonology

Catalog Number: 2791

Michael Becker

Half course (fall term). Tu., Th., at 10; and a weekly section to be arranged. EXAM GROUP: 12

Analysis of phonetic and phonological phenomena from a wide variety of languages. Topics include distinctive feature theory, underlying and surface representations, the abstractness of phonological representations, rules and their ordering, language acquisition and change. Training in phonetic transcription, spectrogram (“voiceprint”) reading, and hypothesis-testing in phonological analysis.

Linguistics 115b. Intermediate Phonology

Catalog Number: 1549

Michael Becker

Half course (spring term). Tu., 1:30–3:30. EXAM GROUP: 15, 16, 17

Focuses on enriched phonological representations and on representational constraints: subsyllabic constituency, autosegmental phonology, the phonological skeleton and timing tier, feature geometry, underspecification, metrical stress, and prosodic morphology.

Prerequisite: Linguistics 115a.

Linguistics 116a. Introduction to Semantics

Catalog Number: 6115

Gennaro Chierchia

Half course (fall term). Tu., Th., at 11; F., at 2. EXAM GROUP: 13

An introductory course on semantic interpretation in natural language. What does it mean to “know the meaning” of an utterance? This course provides the formal tools to characterize truth-conditional meanings of sentences. Topics covered include the relation between form and meaning, ambiguity, reference, the role of context dependency, quantifier scope, and variable-binding.

Linguistics 116b. Intermediate Semantics

Catalog Number: 2118

Amy Rose Deal



Half course (spring term). W., 1–3. EXAM GROUP: 6, 7

Continuation of 116a. Designed to enable students to follow current research in semantics. Topics covered include: intensional contexts, indexicals, modalities, event based semantics, presuppositions, implicatures.

Prerequisite: Linguistics 116a, equivalent, or permission of instructor.

Linguistics 117r. Linguistic Field Methods

Catalog Number: 8401

Amy Rose Deal

Half course (fall term). M., 1–3.

Instruction in the elicitation of phonological, morphological, and syntactic information from a native speaker of an unfamiliar language, with the object of developing a grammatical sketch of the language. Emphasis on methodology and problems of elicitation and grammatical description in the field. Participants work directly with the native speaker, both individually and as a group, with the assistance of the instructor.

[Linguistics 120. Introduction to Historical Linguistics]

Catalog Number: 8486

Jeremy Rau

Half course (spring term). M., W., at 1; F., at 1.

Methods and goals of linguistic reconstruction. Topics include the regularity of sound change, types of linguistic change, the relationship between linguistic reconstruction and synchronic analysis, language contact and borrowing, and mechanisms of linguistic change, including recent theories.

Note: Expected to be given in 2011–12.

Linguistics 122. Introduction to Indo-European

Catalog Number: 1336

Jay Jasanoff

Half course (spring term). M., W., at 10; F., at 10. EXAM GROUP: 3

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.

[Linguistics 123. Intermediate Indo-European]

Catalog Number: 6959

Jay Jasanoff

Half course (spring term). Hours to be arranged.

Designed as a sequel to Linguistics 122. A detailed overview of Indo-European comparative grammar, with emphasis on recent developments and discoveries.

Note: Expected to be given in 2011–12.

Linguistics 132. Psychosemantics

Catalog Number: 6578

Gennaro Chierchia and Jesse Snedeker

Half course (fall term). F., 10–1. EXAM GROUP: 3, 4, 5

Explores issues at the interface of linguistic semantics, pragmatics and psychology. Introduces



how the analysis of meaning has been pursued by linguists and psychologists. Focuses on topics that are both of central interest to theoretical linguistics and the target of experimental research. These include sentence structure, sentential connectives, quantification, numbers, mass-count distinction, adjectives and comparison, scales and modalities.

Prerequisite: A background in psychology or linguistics; some acquaintance with both helpful but not necessary.

[Linguistics 145. Logical Form]

Catalog Number: 5755

Members of the Department

Half course (spring term). Hours to be arranged.

How does the meaning of a sentence derive from the combination of the meanings of the words it contains? It is generally assumed that word meanings by themselves are not sufficient to account for sentence meanings, and that syntax plays an important role. We explore the hypothesis that there is an abstract level of syntax called Logical Form which, in combination with word meanings, determines a substantial part of the meanings of sentences.

Note: Expected to be given in 2011–12.

[Linguistics 146. Syntax and Processing]

Catalog Number: 0536

Maria Polinsky

Half course (spring term). Hours to be arranged.

Selected grammatical phenomena will be examined from a theoretical and experimental perspective, with a view toward answering questions like the following: What theoretical treatments are available? How do experimental studies distinguish among competing theoretical approaches? What kind of future experimental work is needed to resolve the outstanding issues?

Note: Expected to be given in 2011–12.

[Linguistics 148. Language Universals]

Catalog Number: 5455

Maria Polinsky

Half course (spring term). Tu., Th., at 11.

Provides an introduction to the study of cross-linguistic variation and analyzes alternative approaches to language universals (functional explanations, processing explanations, explanations in terms of universal grammar). Topics to be studied include word order, case marking, agreement, lexical categories, subject-hood, and information structure. Sampling techniques and the use of hierarchies will also be covered.

Note: Expected to be given in 2011–12.

Prerequisite: Linguistics 112a or permission of instructor.

Linguistics 152. Prosody and Intonation

Catalog Number: 9457

Michael Becker

Half course (spring term). Tu., Th., at 10. EXAM GROUP: 12

Prosody and intonation are intricately linked to many domains of language use and linguistic structure. We examine the phonetic form of prosodic contours and intonational grouping, the



function of prosody in expressing semantic and pragmatic information and in disambiguation during sentence production and comprehension, and the use of "implicit" prosody even in silent reading.

Prerequisite: Linguistics 110 or permission of instructor.

[Linguistics 158r. From Indo-European to Old Irish]

Catalog Number: 3801

Instructor to be determined

Half course (spring term). Hours to be arranged.

Essentials of Celtic historical and comparative grammar.

Note: Expected to be given in 2011–12.

Prerequisite: Some acquaintance with either Indo-European or Old Irish.

[Linguistics 162. Incomplete Acquisition]

Catalog Number: 0315

Instructor to be determined

Half course (fall term). Hours to be arranged.

This course analyzes the structure of incompletely acquired languages. Emphasis will be on incomplete acquirers (heritage speakers) whose acquisition was interrupted at an early age. Empirical data from several incompletely acquired languages (Russian, Polish, Czech, Lithuanian, Armenian, Korean, Vietnamese, and Tagalog) will be examined to show how incomplete acquisition leads to constraint-based grammars with systematic similarities. Other topics: testing and education of heritage speakers, comparison of heritage speakers with speakers of pidgin and creole languages.

Note: Expected to be given in 2011–12.

[Linguistics 168. Introduction to Germanic Linguistics]

Catalog Number: 7925

Jay Jasanoff

Half course (fall term). Tu., Th., at 10.

An introduction to the comparative and historical linguistics of the Germanic family, with emphasis on Gothic and the early medieval languages.

Note: Expected to be given in 2011–12.

Prerequisite: Elementary knowledge of German, or another Germanic language, or permission of instructor.

Linguistics 171. Structure of Chinese

Catalog Number: 4346

C.-T. James Huang

Half course (fall term). Tu., 1–3. EXAM GROUP: 15, 16

Introduction to the syntactic structure of Mandarin Chinese: the basic structure of clauses and nominal constituents; words, compounds, and phrases; word order and variations; selected special topics (passives, resultatives, ba-construction, topic and relativized structures, questions, anaphora, pro drop); syntactic structure and semantic interpretation.

Prerequisite: Linguistics 112a in previous or current term or permission of instructor.



[Linguistics 173. Linguistic Issues in the Teaching of Japanese]

Catalog Number: 4208

Instructor to be determined

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 2011–12.

Prerequisite: Japanese 120b or its equivalent. Familiarity with basic linguistics concepts desirable.

[Linguistics 174. Tense and Aspect in Japanese]

Catalog Number: 1856

Instructor to be determined

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 2011–12.

Prerequisite: Knowledge of Japanese equivalent to Japanese 120b, or familiarity with the linguistic structure of a non-Indo-European language, or permission of instructor.

[Linguistics 175. Structure of Japanese]

Catalog Number: 4029

Instructor to be determined

Half course (spring term). Hours to be arranged.

Introduction to the syntactic structure of Modern Japanese: the structure of clauses and noun phrases and other constituents; selected special topics such as word order and scrambling, relative clauses and other sentence modifiers, passives and causatives, case marking, etc., as they pertain to linguistic theory.

Note: Expected to be given in 2011–12.

Prerequisite: Linguistics 112a in previous or current term or permission of instructor.

[Linguistics 176. History and Prehistory of the Japanese Language]

Catalog Number: 4861

Wesley M. Jacobsen

Half course (spring term). Tu., 1–3.

An examination of evidence from the comparative method, internal reconstruction, and written documents for reconstructing prehistoric stages of the Japanese language and an overview of major developments in Japanese phonology and grammar from the Nara period through the present day.

Note: Expected to be given in 2011–12.

Prerequisite: Knowledge of Japanese equivalent to Japanese 120b, or familiarity with historical linguistics, or permission of the instructor.

[Linguistics 185. Austronesian]

Catalog Number: 99421



Maria Polinsky

Half course (fall term). Hours to be arranged.

This course is an in-depth investigation into comparative Austronesian syntax. The Austronesian language family -- roughly 1,200 genetically-related languages dispersed over an area encompassing Madagascar, Taiwan, Southeast Asia, and islands of the Pacific -- exhibits several unusual properties: verb-first word order, ergativity, wh-agreement, articulated voice systems, and cleft structures. The course examines these phenomena from the perspective of comparative Austronesian syntax.

Note: Expected to be given in 2011–12.

[Linguistics 188r. Biolinguistics]

Catalog Number: 2750

Instructor to be determined

Half course (spring term). Hours to be arranged.

The class is meant as an exploration of the biology of language. Specifically, it investigates the nature of human language and its importance for the study of the mind and the brain. We will discuss current research into the development of language which tries to make sense of the underlying universality of our language faculty as well as the diversity found in individual languages. We will discuss issues of language design (as a biological system) and language evolution.

Note: Expected to be given in 2011–12.

Prerequisite: Linguistics 88 or permission of instructor.

Cross-listed Courses

[Celtic 160. Advanced Modern Irish](#)

[Celtic 161. Continuing Advanced Modern Irish](#)

Primarily for Graduates

[Linguistics 200. Second Language Acquisition](#)

Catalog Number: 6098

Stacey Katz Bourns

Half course (fall term). M., 3-5. EXAM GROUP: 4, 8, 9

An overview of second-language teaching and learning focused on theoretical models, learning objectives, developmental stages, materials design, and the use of new technology in teaching. The course explores the nature of second language acquisition, focused specifically on the needs of graduate students teaching a second language.

[Linguistics 202r. Advanced Syntax](#)

Catalog Number: 8175

Nina Radkevich

Half course (spring term). M., 3-5. EXAM GROUP: 8, 9

The third course in the syntax sequence, focusing on major issues in current syntactic theory. Topics include head movement, case and agreement, anaphora, constraints on movement and



derivations.

Prerequisite: Linguistics 112b or permission of instructor.

Linguistics 204r. Topics in Syntax

Catalog Number: 6446

Maria Polinsky

Half course (spring term). Th., 1–3. EXAM GROUP: 15, 16

Examination of current issues in syntactic theory with focus on topics of interest to the class.

Linguistics 205r. The Syntax-Semantics Interface

Catalog Number: 0776

Amy Rose Deal

Half course (fall term). W., 1–3. EXAM GROUP: 6, 7

An exploration of issues related to the architecture of the grammar, with emphasis on the structures that are interpreted at the semantic interface, and how they are derived.

[Linguistics 206r. Syntactic Structure and Argument Structure]

Catalog Number: 9020

Instructor to be determined

Half course (fall term). Hours to be arranged.

What is the relationship between a predicate's semantic content and its syntactic realization?

What is the relationship between a predicate's event structure and its argument structure? Does a predicate's semantics determine the syntactic frames it occurs in, or might it be the other way around?

Note: Expected to be given in 2011–12.

[Linguistics 207r. Topics in Semantics]

Catalog Number: 8812

Gennaro Chierchia

Half course (spring term). W., 1–3. EXAM GROUP: 6, 7

Current issues in semantics. Topics for this year include: scope and anaphoric properties of indefinites, quantificational variability and generic uses, and long distance indefinites.

Note: Expected to be given in 2011–12.

Linguistics 214. Advanced Morphology

Catalog Number: 7639

Nina Radkevich

Half course (fall term). Th., 1–3. EXAM GROUP: 15, 16

An examination of selected topics in morphology. Topics this year will include reduplication, cliticization, and affix ordering. Students will consult with instructor on possible research topics.

[Linguistics 219r. Advanced Phonology]

Catalog Number: 2151

Members of the Department

Half course (spring term). Th., 3–5.

An examination of why phonological phenomena exist at all, and the nature of phonological



computation. Primarily exemplification from harmony, reduplication, and meter. Design conditions imposed by economy, perception, articulation, the learning path, and the lexicon.

Note: Expected to be given in 2011–12.

Prerequisite: Linguistics 114 or permission of instructor.

Linguistics 220ar. Advanced Indo-European

Catalog Number: 3428

Jeremy Rau

Half course (spring term). M., 1–3. EXAM GROUP: 6, 7

Topics in Indo-European comparative grammar. Conducted as a seminar.

Linguistics 221r. Workshop in Indo-European

Catalog Number: 1008

Jay Jasanoff

Half course (spring term). Th., 3–5. EXAM GROUP: 17, 18

The topic for the year will be arranged in consultation with interested students. Conducted as a seminar.

[Linguistics 224. Historical and Comparative Linguistics]

Catalog Number: 2967

Jay Jasanoff

Half course (spring term). Hours to be arranged.

An introduction to diachronic linguistics at the graduate level. Theory of language change: sound change and analogy, syntactic and semantic change, change in progress. The comparative method: proving genetic relationship, reconstruction, and subgrouping.

Note: Expected to be given in 2011–12.

Linguistics 225a. Introduction to Hittite

Catalog Number: 8206

Jeremy Rau

Half course (fall term). Th., 3–5. EXAM GROUP: 17, 18

Grammar and reading of texts in cuneiform and in transliteration; essentials of the comparative grammar of the Indo-European languages of Anatolia.

[Linguistics 226r. Advanced Hittite]

Catalog Number: 0858

Instructor to be determined

Half course (fall term). Hours to be arranged.

Grammar and text readings in Cuneiform and Hieroglyphic Luvian.

Note: Expected to be given in 2011–12. Provisions will be made for any student who wishes to begin Hittite this term.

Linguistics 241r. Practicum in Linguistics

Catalog Number: 4260

Maria Polinsky 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 second- and third-year Linguistics graduate students.

[Linguistics 247. Topics in Germanic Linguistics]

Catalog Number: 3693

Members of the Department

Half course (spring term). Tu., 1–3. EXAM GROUP: 15, 16

Investigation of selected topics in Germanic historical linguistics.

Note: Expected to be given in 2011–12.

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 251. Advanced Readings in Church Slavonic Texts]

Catalog Number: 7038

Michael S. Flier

Half course (spring term). Hours to be arranged.

Readings in canonical Old Church Slavonic texts and later Church Slavonic redactions.

Note: Expected to be given in 2011–12.

Prerequisite: Linguistics 250.

[Linguistics 252. Comparative Slavic Linguistics]

Catalog Number: 7659

Michael S. Flier

Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

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 2011–12.

Prerequisite: Linguistics 250

[Linguistics 290. Heritage Languages and Their Speakers (Graduate Seminar in General Education)]

Catalog Number: 58133

Maria Polinsky

Half course (spring term). M., 1–3.

This course will present and analyze theoretical and experimental aspects of heritage language study. A heritage language is a minority language that an individual was exposed to in childhood but never learned to full competence because of the switch to another language. The course will identify critical linguistic generalizations applying to heritage languages. We will test the universal principles of language structure that are expected to stay unchanged in any language. The students will also learn crucial methodologies and tools for investigating heritage languages and their speakers in an experimental setting. Class discussions will reflect the current social and



political discourse surrounding heritage populations. The work done in this class will lead to the development of experimental methodologies and tools for studying and testing heritage languages in the classroom.

Note: Expected to be given in 2011–12.

[Linguistics 291r. Functional Approach to Syntax]

Catalog Number: 5046

Instructor to be determined

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 2011–12.

Cross-listed Courses

[Celtic 200. Introduction to Old Irish]

[Celtic 201. Continuing Old Irish]

[Celtic 225a. Medieval Welsh Language and Literature](#)

[Celtic 225b. Medieval Welsh Prose and Poetry](#)

Graduate Courses of Reading and Research

***Linguistics 300. Direction of Doctoral Dissertations**

Catalog Number: 6729

Michael Becker 6448, Alfonso Caramazza 1871, Gennaro Chierchia 5355, Amy Rose Deal 6418, Michael S. Flier 2878, C.-T. James Huang 4066 (on leave spring term), Wesley M. Jacobsen 3443 (on leave fall and spring terms), Jay Jasanoff 1661 (on leave fall term), Steven Pinker 4733, Maria Polinsky 5601, Jeremy Rau 4657, and P. Oktor Skjaervo 2869.

***Linguistics 301. Reading or Special Topics Course**

Catalog Number: 0861

Members of the Department and others listed under Linguistics 300.

Literature and Comparative Literature

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION



The Department of Comparative Literature has merged with the Committee on Degrees in Literature to form the Department of Comparative Literature. Please see the Department of Comparative Literature.

Mathematics

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Department of Mathematics

Shing-Tung Yau, William Casper Graustein Professor of Mathematics (*Chair*)
 Jameel Habeeb Al-Aidroos, Preceptor in Mathematics
 Lars Ake Andersson, Visiting Professor of Mathematics (*Max Planck Institute*)
 Nir David Avni, Benjamin Peirce Lecturer in Mathematics (*on leave spring term*)
 David Hector Ayala, Lecturer on Mathematics
 Paul G. Bamberg, Senior Lecturer on Mathematics
 Juliana Victoria Belding, Preceptor in Mathematics
 Paul Bourgade, Benjamin Peirce Fellow in the Department of Mathematics
 Janet Chen, Preceptor in Mathematics
 Andrew W. Cotton-Clay, Benjamin Peirce Lecturer on Mathematics
 Noam D. Elkies, Professor of Mathematics
 Rachel Louise Epstein, Benjamin Peirce Fellow in the Department of Mathematics
 Mboyo Esole, Lecturer on Mathematics
 Vaibhav Suresh Gadre, Benjamin Peirce Fellow in the Department of Mathematics
 Dennis Gaitsgory, Professor of Mathematics (*on leave fall term*)
 Peter McKee Garfield, Preceptor in Mathematics
 Robin Gottlieb, Professor of the Practice of Mathematics
 Benedict H. Gross, George Vasmer Leverett Professor of Mathematics
 John T. Hall, Preceptor in Mathematics
 Joseph D. Harris, Higgins Professor of Mathematics (*Director of Graduate Studies*)
 Michael J. Hopkins, Professor of Mathematics
 Mark Kisin, Professor of Mathematics
 Antti Knowles, Lecturer on Mathematics
 Sarah Colleen Koch, Benjamin Peirce Lecturer on Mathematics;
 Peter B. Kronheimer, William Casper Graustein Professor of Mathematics (*Director of Undergraduate Studies*)
 Jacob Lurie, Professor of Mathematics
 Barry C. Mazur, Gerhard Gade University Professor (*on leave spring term*)



Curtis T. McMullen, Maria Moors Cabot Professor of the Natural Sciences
 Sophie Marguerite Morel, Professor of Mathematics (*on leave 2010-11*)
 Martin A. Nowak, Professor of Mathematics and of Biology (*on leave fall term*)
 Rehana Patel, Preceptor in Mathematics
 Joseph David Rabinoff, Benjamin Peirce Lecturer on Mathematics
 Gerald E. Sacks, Professor of Mathematical Logic (*on leave spring term*)
 Wilfried Schmid, Dwight Parker Robinson Professor of Mathematics (*on leave spring term*)
 Yum Tong Siu, William Elwood Byerly Professor of Mathematics
 Shlomo Z. Sternberg, George Putnam Professor of Pure and Applied Mathematics
 Junecue Suh, Benjamin Peirce Fellow in the Department of Mathematics (*on leave 2010-11*)
 Clifford Taubes, William Petschek Professor of Mathematics
 Richard L. Taylor, Herchel Smith Professor of Mathematics (*on leave 2010-11*)
 Yu-jong Tzeng, Lecturer on Mathematics
 Hao Xu, Lecturer on Mathematics
 Horng-Tzer Yau, Professor of Mathematics
 Jun Yin, Benjamin Peirce Lecturer in Mathematics
 Wei Zhang, Benjamin Peirce Fellow in the Department of Mathematics
 Xinwen Zhu, Benjamin Peirce Lecturer on Mathematics

Other Faculty Offering Instruction in the Department of Mathematics

Arthur M. Jaffe, Landon T. Clay Professor of Mathematics and Theoretical Science

The Mathematics Department hopes that all students will take mathematics courses. This said, be careful to take only those courses that are appropriate for your level of experience. Incoming students should take advantage of Harvard's Mathematics Placement Test and of the science advising available in the Science Center the week before classes begin. Members of the Mathematics Department will be available during this period to consult with students. Generally, students with a strong precalculus background and some calculus experience will begin their mathematics education here with a deeper study of calculus and related topics in courses such as Mathematics 1a, 1b, 19a,b, 20, 21a,b, 23a,b and 25a,b. The Harvard Mathematics Placement Test results recommend the appropriate starting level course, either Mathematics Ma, 1a, 1b, or 21. Recommendation for Mathematics 21 is sufficient qualification for Mathematics 19a,b, 20, 21a, 23a, and 25a.

What follows briefly describes these courses: Mathematics 1a introduces the basic ideas and techniques of calculus while Mathematics 1b covers integration techniques, differential equations, sequences and series. Mathematics 21a covers multi-variable calculus while Mathematics 21b covers basic linear algebra with applications to differential equations. Students who do not place into (or beyond) Mathematics 1a can take Mathematics Ma, Mb, a two-term sequence which integrates calculus and precalculus material and prepares students to enter Mathematics 1b.

There are a number of options available for students whose placement is to Mathematics 21. For example, Mathematics 19a,b are courses that are designed for students concentrating in the life sciences, chemistry, and the environmental sciences. (These course are recommended over Math



21a,b by the various life science, environmental science, and chemistry concentrations). In any event, Math 19a can be taken either before or after Math 21a,b. Math 19b requires some multivariable calculus background, and should not be taken with Math 21b. Math 19a teaches differential equations, related techniques and modeling with applications to the life sciences. Math 19b focuses teaches linear algebra, probability and statistics with a focus on life science examples and applications. Mathematics 20 covers selected topics from Mathematics 21a and 21b for students particularly interested in economic and social science applications.

Mathematics 23 is a theoretical version of Mathematics 21 which treats multivariable calculus and linear algebra in a rigorous, proof oriented way. Mathematics 25 and 55 are theory courses that should be elected only by those students who have a strong interest in mathematics. They assume a solid understanding of one-variable calculus, a willingness to think rigorously and abstractly about mathematics, and to work extremely hard. Both courses study multivariable calculus and linear algebra plus many very deep related topics. Mathematics 25 differs from Mathematics 23 in that the work load in Mathematics 25 is significantly more than in Mathematics 23, but then Mathematics 25 covers more material. Mathematics 55 differs from Mathematics 25 in that the former assumes a very strong proof oriented mathematics background. Mathematics 55, covers the material from Mathematics 25 plus much material from Mathematics 122 and Mathematics 113. Entrance into Mathematics 55 requires the consent of the instructor.

Students who have had substantial preparation beyond the level of the Advanced Placement Examinations are urged to consult the Director of Undergraduate Studies in Mathematics concerning their initial Harvard mathematics courses. Students should take this matter very seriously. The Mathematics Department has also prepared a pamphlet with a detailed description of all its 100-level courses and their relationship to each other. This pamphlet gives sample lists of courses suitable for students with various interests. It is available at the Mathematics Department Office. Many 100-level courses assume some familiarity with proofs. Courses that supply this prerequisite include Mathematics 23, 25, 55, 101, 112, 121, and 141. Of these, note that Mathematics 101 may be taken concurrently with Mathematics 1, 19, 20, or 21.

Mathematics 113, 114, 122, 123, 131, and 132 form the core of the department's more advanced courses. Mathematics concentrators are encouraged to consider taking these courses, particularly Mathematics 113, 122 and 131. (Those taking 55a,b will have covered the material of Mathematics 113 and 122, and are encouraged to take Mathematics 114, 123, and 132.)

Courses numbered 200-249 are introductory graduate courses. They will include substantial homework and are likely to have a final exam, either in class or take home. Most are taught every year. They may be suitable for very advanced undergraduates. Mathematics 212a, 230a, 231a and 232a will help prepare graduate students for the qualifying examination in Mathematics. Courses numbered 250-299 are graduate topic courses, intended for advanced graduate students.

The Mathematics Department does not grant formal degree credit without *prior* approval for taking a course that is listed as a prerequisite of one you have already taken. Our policy is that a student who takes and passes any calculus course is not normally permitted to then take a more



elementary course for credit. A student who has passed Mathematics 21a, for example, will normally not be allowed to take Mathematics 1a, or 1b for credit. The Mathematics Department is prepared to make exceptions for sufficient academic reasons; in each case, however, a student must obtain written permission from the Mathematics Director of Undergraduate Studies 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 Ma (formerly Mathematics Xa). Introduction to Functions and Calculus I

Catalog Number: 1981 Enrollment: Normally limited to 15 students per section.

Juliana Belding, Janet Chen, Rachel Epstein, Robin Gottlieb, John Hall, and members of the Department

Half course (fall term). Section meeting times: Section I: M., W., F., at 10; Section II: M., W., F., at 11; Section III: M. W. F., at 12 (with sufficient enrollment); and a twice weekly lab session to be arranged.

The study of functions and their rates of change. Fundamental ideas of calculus are introduced early and used to provide a framework for the study of mathematical modeling involving algebraic, exponential, and logarithmic functions. Thorough understanding of differential calculus promoted by year long reinforcement. Applications to biology and economics emphasized according to the interests of our students.

Note: Required first meeting: Wednesday, September 1, 8:30 am, Science Center D.

Participation in a one and a half hour workshop is required each week. Participation in the weekly problem sessions is also encouraged. This course, when taken for a letter grade, meets the General Education requirement for Empirical and Mathematical Reasoning. This course, when taken for a letter grade together with Mathematics Mb, meets the Core area requirement for Quantitative Reasoning.

Mathematics Mb (formerly Mathematics Xb). Introduction to Functions and Calculus II

Catalog Number: 3857 Enrollment: Normally limited to 15 students per section.

Robin Gottlieb, Juliana Belding, Janet Chen, David Ayala, and members of the Department

Half course (spring term). Section I: M., W., F., at 10; Section II: M. W., F., at 11; Section III: M., W., F., at 12 (with sufficient enrollment); and a twice weekly lab session to be arranged.

EXAM GROUP: 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.

Note: Participation in a one and a half hour workshop is required each week. Participation in the weekly problem sessions is also encouraged. This course, when taken for a letter grade, meets the General Education requirement for Empirical and Mathematical Reasoning. This course, when taken for a letter grade together with Mathematics Ma, meets the Core area requirement for



Quantitative Reasoning.

Prerequisite: Mathematics Ma.

Mathematics 1a. Introduction to Calculus

Catalog Number: 8434 Enrollment: Normally limited to 30 students per section.

Peter M. Garfield, Rehana Patel, and members of the Department (fall term); Oliver Knill (spring term)

Half course (fall term; repeated spring term). Fall: Section I, M., W., F., at 9 (with sufficient enrollment); Section II, M., W., F., at 10; Section III, M., W., F., at 11; Section IV, M., W., F., at 12; Section V, Tu., Th., 10-11:30; Section VI, Tu., Th., 11:30-1. Spring: Section I, M., W., F., at 10, and a weekly problem section to be arranged. EXAM GROUP: 1

The development of calculus by Newton and Leibniz ranks among the greatest achievements of the past millennium. This course will help you see why by introducing: how differential calculus treats rates of change; how integral calculus treats accumulation; and how the fundamental theorem of calculus links the two. These ideas will be applied to problems from many other disciplines.

Note: Required first meeting in fall: Thursday, September 2, 8:30 am, Science Center B. This course, when taken for a letter grade, meets the General Education requirement for Empirical and Mathematical Reasoning or the Core area requirement for Quantitative Reasoning.

Prerequisite: A solid background in precalculus.

Mathematics 1b. Calculus, Series, and Differential Equations

Catalog Number: 1804 Enrollment: Normally limited to 30 students per section.

Clifford Taubes, Janet Chen, Mboyo Esole and Wei Zhang (fall term); Janet Chen, Juliana Belding, and Paul Bourgade (spring term)

Half course (fall term; repeated spring term). Section I, M., W., F., at 9 (with sufficient enrollment); Section II, M., W., F., at 10; Section III, M., W., F., at 11; Section IV, M., W., F., at 12 (with sufficient enrollment); Section V: Tu., Th., 10-11:30; Section VI, Tu., Th., 11:30-1. Spring: Section I, M., W., F., at 10; Section II, M., W., F., 11; Section III, M., W., F., 12; Section IV, Tu., Th., 10-11:30 (with sufficient enrollment); Section V, Tu., Th., 11:30-1 (with sufficient enrollment), and a weekly problem section to be arranged. Required exams: Hours to be arranged. EXAM GROUP: 1

Speaking the language of modern mathematics requires fluency with the topics of this course: infinite series, integration, and differential equations. Model practical situations using integrals and differential equations. Learn how to represent interesting functions using series and find qualitative, numerical, and analytic ways of studying differential equations. Develop both conceptual understanding and the ability to apply it.

Note: Required first meeting in fall: Wednesday, September 1, 8:30 am, Science Center C. Required first meeting in spring: Monday, January 24, 8:30 am, Science Center C. This course, when taken for a letter grade, meets the General Education requirement for Empirical and Mathematical Reasoning or the Core area requirement for Quantitative Reasoning.

Prerequisite: Mathematics 1a, or Ma and Mb, or equivalent.

Mathematics 19a. Modeling and Differential Equations for the Life Sciences

Catalog Number: 1256

John T. Hall



Half course (fall term; repeated spring term). M., W., F., at 1, and a weekly problem section to be arranged. EXAM GROUP: 6

Considers the construction and analysis of mathematical models that arise in the life sciences, ecology and environmental life science. Introduces mathematics that include multivariable calculus, differential equations in one or more variables, vectors, matrices, and linear and non-linear dynamical systems. Taught via examples from current literature (both good and bad).

Note: This course is recommended over Math 21a for those planning to concentrate in the life sciences, chemistry, or ESPP. Can be taken with or without Mathematics 21a,b. Students with interests in the social sciences and economics might consider Mathematics 20. This course can be taken before or after Mathematics 20. This course, when taken for a letter grade, meets the General Education requirement for Empirical and Mathematical Reasoning or the Core area requirement for Quantitative Reasoning.

Prerequisite: Math 1b, or talk to the instructor.

Mathematics 19b. Linear Algebra, Probability, and Statistics for the Life Sciences

Catalog Number: 6144

Oliver Knill

Half course (spring term). M., W., F., at 1, and a weekly problem section to be arranged. EXAM GROUP: 6

Probability, statistics and linear algebra with applications to life sciences, chemistry, and environmental life sciences. Linear algebra includes matrices, eigenvalues, eigenvectors, determinants, and applications to probability, statistics, dynamical systems. Basic probability and statistics are introduced, as are standard models, techniques, and their uses including the central limit theorem, Markov chains, curve fitting, regression, and pattern analysis.

Note: This course is recommended over Math 21b for those planning to concentrate in the life sciences, chemistry, or ESPP. Can be taken with Mathematics 21a. Students who have seen some multivariable calculus can take Math 19b before Math 19a. This course, when taken for a letter grade, meets the General Education requirement for Empirical and Mathematical Reasoning or the Core area requirement for Quantitative Reasoning.

Mathematics 20. Algebra and Multivariable Mathematics for Social Sciences

Catalog Number: 0906

Rachel Louise Epstein

Half course (fall term). M., W., F., at 9. 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. Covers the topics from Mathematics 21a,b which are most important in applications to economics, the social sciences, and some other fields.

Note: Should not ordinarily be taken in addition to Mathematics 21a,b. Examples drawn primarily from economics and the social sciences though Mathematics 20 may be useful to students in certain natural sciences. This course, when taken for a letter grade, meets the General Education requirement for Empirical and Mathematical Reasoning or the Core area requirement for Quantitative Reasoning.

Prerequisite: Mathematics 1b or equivalent, or an A or A- in Mathematics 1a, or a 5 on the AB or a 3 or higher on the BC Advanced Placement Examinations in Mathematics.



Mathematics 21a. Multivariable Calculus

Catalog Number: 6760 Enrollment: Normally limited to 30 students per section.

Wilfried Schmid, Jameel Al-Aidroos, Vaibhav Gadre, Antti Knowles, and Jun Yin (fall term);

Jameel Al-Aidroos, Nir Avni, Peter Garfield, and Joseph Rabinoff (spring term)

Half course (fall term; repeated spring term). Fall: Section I, M., W., F., at 9 (with sufficient enrollment); Section II, M., W., F., at 10; Section III, M., W., F., at 11; Section IV, M., W., F., at 12; Section V, Tu., Th., 10-11:30; Section VI, Tu., Th., 11:30-1. Spring: Section I, M., W., F., at 9 (with sufficient enrollment); Section II, M., W., F., at 10; Section III, M., W., F., at 11; Section IV, M., W., F., 12 (with sufficient enrollment); Section V, Tu., Th., 10-11:30; and a weekly problem section to be arranged. EXAM GROUP: 1

To see how calculus applies in practical situations described by more than one variable, we study: Vectors, lines, planes, parameterization of curves and surfaces, partial derivatives, directional derivatives, and the gradient, optimization and critical point analysis, including constrained optimization and the Method of Lagrange Multipliers, integration over curves, surfaces, and solid regions using Cartesian, polar, cylindrical, and spherical coordinates, divergence and curl of vector fields, and the Green's, Stokes', and Divergence Theorems.

Note: Required first meeting in fall: Thursday, September 2, 8:30 am, Science Center C.

Required first meeting in spring: Tuesday, January 25, 8:30 am, Science Center C. May not be taken for credit by students who have passed Applied Mathematics 21a. This course, when taken for a letter grade, meets the General Education requirement for Empirical and Mathematical Reasoning or the Core area requirement for Quantitative Reasoning. Activities using computers to calculate and visualize applications of these ideas will not require previous programming experience. Special sections for students interested in physics are offered each term.

Prerequisite: Mathematics 1b or equivalent.

Mathematics 21b. Linear Algebra and Differential Equations

Catalog Number: 1771 Enrollment: Normally limited to 30 students per section.

Oliver Knill and members of the Department (fall term); John Hall, Rehana Patel, and members of the Department (spring term)

Half course (fall term; repeated spring term). Fall: Section I, M., W., F., at 10 (with sufficient enrollment); Section II, M., W., F., at 11; Section III, M., W., F., at 12; Spring: Section I, M., W., F., at 10; Section II, M., W., F., at 11; Section III, M., W., F., at 12 (with sufficient enrollment); Section IV, Tu., Th., 10-11:30; Section V, Tu., Th., 11:30-1, and a weekly problem section to be arranged. EXAM GROUP: 1

Matrices provide the algebraic structure for solving myriad problems across the sciences. We study matrices and related topics such as vectors, Euclidean spaces, linear transformations, determinants, eigenvalues, and eigenvectors. Of applications given, a regular section considers dynamical systems and both ordinary and partial differential equations plus an introduction to Fourier series.

Note: Required first meeting in fall: Wednesday, September 1, 8:30 am, Science Center B.

Required first meeting in spring: Monday, January 24, 8:30 am, Science Center B. May not be taken for credit by students who have passed Applied Mathematics 21b. This course, when taken for a letter grade, meets the General Education requirement for Empirical and Mathematical Reasoning or the Core area requirement for Quantitative Reasoning.

Prerequisite: Mathematics 1b or equivalent. Mathematics 21a is commonly taken before Mathematics 21b, but is not a prerequisite, although familiarity with partial derivatives is useful.

**Mathematics 23a. Linear Algebra and Real Analysis I**

Catalog Number: 2486

*Paul G. Bamberg**Half course (fall term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17*

A rigorous, integrated treatment of linear algebra and multivariable differential calculus, emphasizing topics that are relevant to fields such as physics and economics. Topics: fields, vector spaces and linear transformations, scalar and vector products, elementary topology of Euclidean space, limits, continuity, and differentiation in n dimensions, eigenvectors and eigenvalues, inverse and implicit functions, manifolds, and Lagrange multipliers. Students are expected to master twenty important proofs.

Note: Course content overlaps substantially with Mathematics 21a,b, 25a,b, so students should plan to continue in Mathematics 23b. See the description in the introductory paragraphs in the Mathematics section of the catalog about the differences between Mathematics 23 and Mathematics 25. This course, when taken for a letter grade, meets the General Education requirement for Empirical and Mathematical Reasoning or the Core area requirement for Quantitative Reasoning.

Prerequisite: Mathematics 1b or a grade of 4 or 5 on the Calculus BC Advanced Placement Examination, plus an interest both in proving mathematical results and in using them.

Mathematics 23b. Linear Algebra and Real Analysis II

Catalog Number: 8571

*Paul G. Bamberg**Half course (spring term). Tu., Th., 2:30–4, and a weekly conference section to be arranged.**EXAM GROUP: 16, 17*

A rigorous, integrated treatment of linear algebra and multivariable calculus. Topics: Riemann and Lebesgue integration, determinants, change of variables, volume of manifolds, differential forms, and exterior derivative. Stokes's theorem is presented both in the language of vector analysis (div, grad, and curl) and in the language of differential forms. Students are expected to master twenty important proofs.

Note: This course, when taken for a letter grade, meets the General Education requirement for Empirical and Mathematical Reasoning or the Core area requirement for Quantitative Reasoning.

Prerequisite: Mathematics 23a.

Mathematics 25a. Honors Linear Algebra and Real Analysis I

Catalog Number: 1525

*Benedict H. Gross**Half course (fall term). M., W., F., at 11. EXAM GROUP: 4*

A rigorous treatment of linear algebra. Topics include: Construction of number systems; fields, vector spaces and linear transformations; eigenvalues and eigenvectors, determinants and inner products. Metric spaces, compactness and connectedness.

Note: Only for students with a strong interest and background in mathematics. There will be a heavy workload. May not be taken for credit after Mathematics 23. This course, when taken for a letter grade, meets the General Education requirement for Empirical and Mathematical Reasoning or the Core area requirement for Quantitative Reasoning.

Prerequisite: 5 on the Calculus BC Advanced Placement Examination and some familiarity with writing proofs, or the equivalent as determined by the instructor.

**Mathematics 25b. Honors Linear Algebra and Real Analysis II**

Catalog Number: 1590

*Benedict H. Gross**Half course (spring term). M., W., F., at 11. EXAM GROUP: 4*

A rigorous treatment of basic analysis. Topics include: convergence, continuity, differentiation, the Riemann integral, uniform convergence, the Stone-Weierstrass theorem, Fourier series, differentiation in several variables. Additional topics, including the classical results of vector calculus in two and three dimensions, as time allows.

Note: There will be a heavy workload. This course, when taken for a letter grade, meets the General Education requirement for Empirical and Mathematical Reasoning or the Core area requirement for Quantitative Reasoning.

Prerequisite: Mathematics 23a or 25a or 55a.

***Mathematics 55a. Honors Abstract Algebra**

Catalog Number: 4068

*Noam D. Elkies**Half course (fall term). M., W., F., at 10. EXAM GROUP: 3*

A rigorous treatment of abstract algebra including linear algebra and group theory.

Note: Mathematics 55a is an intensive course for students having significant experience with abstract mathematics. Instructor's permission required. Every effort will be made to accommodate students uncertain of whether the course is appropriate for them; in particular, Mathematics 55a and 25a will be closely coordinated for the first three weeks of instruction. Students can switch between the two courses during the first three weeks without penalty. This course, when taken for a letter grade, meets the General Education requirement for Empirical and Mathematical Reasoning or the Core area requirement for Quantitative Reasoning.

Mathematics 55b. Honors Real and Complex Analysis

Catalog Number: 3312

*Noam D. Elkies**Half course (spring term). M., W., F., at 10. EXAM GROUP: 3*

A rigorous treatment of real and complex analysis.

Note: Mathematics 55b is an intensive course for students having significant experience with abstract mathematics. Instructor's permission required. This course, when taken for a letter grade, meets the General Education requirement for Empirical and Mathematical Reasoning or the Core area requirement for Quantitative Reasoning.

***Mathematics 60r. Reading Course for Senior Honors Candidates**

Catalog Number: 8500

*Peter B. Kronheimer**Half course (fall term; repeated spring term). Hours to be arranged.*

Advanced reading in topics not covered in courses.

Note: Limited to candidates for honors in Mathematics who obtain the permission of both the faculty member under whom they want to work and the Director of Undergraduate Studies. May not count for concentration in Mathematics without special permission from the Director of Undergraduate Studies. Graded Sat/Unsat only.



***Mathematics 91r. Supervised Reading and Research**

Catalog Number: 2165

Peter B. Kronheimer

Half course (fall term; repeated spring term). Hours to be arranged.

Programs of directed study supervised by a person approved by the Department.

Note: May not ordinarily count for concentration in Mathematics.

***Mathematics 99r. Tutorial**

Catalog Number: 6024

Peter B. Kronheimer and members of the Department

Half course (fall term; repeated spring term). Hours to be arranged.

Supervised small group tutorial. Topics to be arranged.

Note: May be repeated for course credit with permission from the Director of Undergraduate Studies. Only one tutorial may count for concentration credit.

For Undergraduates and Graduates

See also Applied Mathematics and Statistics.

Mathematics 101. Sets, Groups and Topology

Catalog Number: 8066

Clifford Taubes

Half course (spring term). M., W., F., at 1. EXAM GROUP: 6

An introduction to rigorous mathematics, axioms, and proofs, via topics such as set theory, symmetry groups, and low-dimensional topology.

Note: Familiarity with algebra, geometry and/or calculus is desirable. Students who have already taken Mathematics 23a,b, 25a,b or 55a,b should not take this course for credit. This course, when taken for a letter grade, meets the General Education requirement for Empirical and Mathematical Reasoning or the Core area requirement for Quantitative Reasoning.

Prerequisite: An interest in mathematical reasoning.

Mathematics 110. Vector Space Methods for Differential Equations - (New Course)

Catalog Number: 97995

Paul G. Bamberg

Half course (spring term). M., W., 1–2:30. EXAM GROUP: 6, 7

Develops the theory of inner product spaces, both finite-dimensional and infinite-dimensional, and applies it to a variety of ordinary and partial differential equations. Topics: existence and uniqueness theorems, Sturm-Liouville systems, orthogonal polynomials, Fourier series, Fourier and Laplace transforms, eigenvalue problems, and solutions of Laplace's equation and the wave equation in the various coordinate systems.

Prerequisite: Mathematics 23ab or 25 ab, or Mathematics 21ab plus any Mathematics course at the 100level.

Mathematics 112. Introductory Real Analysis

Catalog Number: 1123

Yum Tong Siu



Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

An introduction to mathematical analysis and the theory behind calculus. An emphasis on learning to understand and construct proofs. Covers limits and continuity in metric spaces, uniform convergence and spaces of functions, the Riemann integral.

Prerequisite: Mathematics 21a,b and either an ability to write proofs or concurrent enrollment in Mathematics 101. Should not ordinarily be taken in addition to Mathematics 23a,b, 25a,b or 55a,b.

Mathematics 113. Analysis I: Complex Function Theory

Catalog Number: 0405

Antti Knowles

Half course (spring 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. An introduction to some special functions.

Prerequisite: Mathematics 23a,b, 25a,b, or 112. Not to be taken after Mathematics 55b.

Mathematics 114. Analysis II: Measure, Integration and Banach Spaces

Catalog Number: 9111

Peter B. Kronheimer

Half course (fall term). M., W., F., at 11. EXAM GROUP: 4

Lebesgue measure and integration; general topology; introduction to L^p spaces, Banach and Hilbert spaces, and duality.

Prerequisite: Mathematics 23, 25, 55, or 112.

Mathematics 115. Methods of Analysis

Catalog Number: 1871

Jun Yin

Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16

Complex functions; Fourier analysis; Hilbert spaces and operators; Laplace's equations; Bessel and Legendre functions; symmetries; Sturm-Liouville theory.

Note: Mathematics 115 is especially for students interested in physics.

Prerequisite: Mathematics 23a,b, 25a,b, 55a,b, or 112.

Mathematics 116. Convexity and Optimization with Applications

Catalog Number: 5253

Paul G. Bamberg

Half course (fall term). Tu., Th., 4–5:30. EXAM GROUP: 18

Develops the theory of convex sets, normed infinite-dimensional vector spaces, and convex functionals and applies it as a unifying principle to a variety of optimization problems such as resource allocation, production planning, and optimal control. Topics include Hilbert space, dual spaces, the Hahn-Banach theorem, the Riesz representation theorem, calculus of variations, and Fenchel duality. Students will be expected to understand and invent proofs of theorems in real and functional analysis.

Prerequisite: Mathematics 23ab, 25ab, or 55ab, or Mathematics 21ab plus at least one other more advanced course in mathematics.



Mathematics 118r. Dynamical Systems

Catalog Number: 6402

Vaibhav Suresh Gadre

Half course (spring term). M., W., F., at 10. EXAM GROUP: 3

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 21a,b.

Mathematics 121. Linear Algebra and Applications

Catalog Number: 7009

Joseph David Rabinoff

Half course (fall term). M., W., F., at 1. EXAM GROUP: 6

Real and complex vector spaces, dual spaces, linear transformations and Jordan normal forms. Inner product spaces. Applications to differential equations, classical mechanics, and optimization theory. Emphasizes learning to understand and write proofs.

Prerequisite: Mathematics 21b or equivalent. Should not ordinarily be taken in addition to Mathematics 23a, 25a, or 55a.

Mathematics 122. Algebra I: Theory of Groups and Vector Spaces

Catalog Number: 7855

Barry C. Mazur

Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

Groups and group actions, vector spaces and their linear transformations, bilinear forms and linear representations of finite groups.

Prerequisite: Mathematics 23a, 25a, 121; or 101 with the instructor's permission. Should not be taken in addition to Mathematics 55a.

Mathematics 123. Algebra II: Theory of Rings and Fields

Catalog Number: 5613

Dennis Gaitsgory

Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

Rings and modules. Polynomial rings. Field extensions and the basic theorems of Galois theory. Structure theorems for modules.

Prerequisite: Mathematics 122 or 55a.

Mathematics 124. Number Theory

Catalog Number: 2398

Joseph D. Harris

Half course (spring term). M., W., F. at 10. EXAM GROUP: 3

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 129. Number Fields

Catalog Number: 2345

Mark Kisin

Half course (spring term). M., W., F., at 1. EXAM GROUP: 6

Algebraic number theory: number fields, unique factorization of ideals, finiteness of class group, structure of unit group, Frobenius elements, local fields, ramification, weak approximation, adeles, and ideles.

Prerequisite: Mathematics 123.

Mathematics 130 (formerly Mathematics 138). Classical Geometry

Catalog Number: 5811

Sarah Colleen Koch

Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16

Presents axioms for several geometries (affine, projective, Euclidean, spherical, hyperbolic).

Develops models for these geometries using three-dimensional vector spaces over the reals, or over finite fields. Emphasis on reading and writing proofs.

Prerequisite: Mathematics 21a,b, 23a, 25a or 55a (may be taken concurrently).

Mathematics 131. Topology I: Topological Spaces and the Fundamental Group

Catalog Number: 2381

Jacob Lurie

Half course (fall term). M., W., F., at 12. EXAM GROUP: 5

Abstract topological spaces; compactness, connectedness, continuity. Homeomorphism and homotopy, fundamental groups, covering spaces. Introduction to combinatorial topology.

Prerequisite: Some acquaintance with metric space topology (Mathematics 23a,b, 25a,b, 55a,b, 101, or 112) and with groups (Mathematics 101, 122 or 55a).

Mathematics 132. Topology II: Smooth Manifolds

Catalog Number: 7725

Michael J. Hopkins

Half course (spring term). M., W., F., at 3. EXAM GROUP: 8

Differential manifolds, smooth maps and transversality. Winding numbers, vector fields, index and degree. Differential forms, Stokes' theorem, introduction to cohomology.

Prerequisite: Mathematics 23a,b, 25a,b, 55a,b or 112.

Mathematics 136. Differential Geometry

Catalog Number: 1949

Shlomo Z. Sternberg

Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

The exterior differential calculus and its application to curves and surfaces in 3-space and to various notions of curvature. Introduction to Riemannian geometry in higher dimensions and to symplectic geometry.

Prerequisite: Advanced calculus and linear algebra.

Mathematics 137. Algebraic Geometry

Catalog Number: 0556



Peter B. Kronheimer

Half course (spring term). M., W., F., at 11. EXAM GROUP: 4

Affine and projective spaces, plane curves, Bezout's theorem, singularities and genus of a plane curve, Riemann-Roch theorem.

Prerequisite: Mathematics 123.

Mathematics 141. Introduction to Mathematical Logic

Catalog Number: 0600

Rachel Louise Epstein

Half course (spring term). M., W., F., at 12. EXAM GROUP: 5

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. Unsolvability problems. Computable functions and Turing machines. Recursively enumerable sets. Transfinite induction.

Prerequisite: Any mathematics course at the level of Mathematics 21a,b or higher, or permission of instructor.

Mathematics 144. Model Theory and Algebra

Catalog Number: 0690

Gerald E. Sacks

Half course (fall term). M., W., F., at 1. EXAM GROUP: 6

An introduction to model theory with applications to fields and groups. First order languages, structures, and definable sets. Compactness, completeness, and back-and-forth constructions. Quantifier elimination for algebraically closed, differentially closed, and real closed fields. Omitting types, prime extensions, existence and uniqueness of the differential closure, saturation, and homogeneity. Forking, independence, and rank.

Prerequisite: Mathematics 123 or the equivalent is suggested as a prerequisite, but not required.

Mathematics 152. Discrete Mathematics

Catalog Number: 8389

Juliana Victoria Belding

Half course (fall term). M., W., F., at 2. EXAM GROUP: 7

An introduction to finite groups, finite fields, finite geometry, discrete probability, and graph theory. A unifying theme of the course is the symmetry group of the regular icosahedron, whose elements can be realized as permutations, as linear transformations of vector spaces over finite fields, as collineations of a finite plane, or as vertices of a graph. Taught in a seminar format, and students will gain experience in presenting proofs at the blackboard.

Note: Students who have taken Mathematics 23a,b, 25a,b or 55a,b should not take this course for credit.

Prerequisite: Mathematics 21b or equivalent.

[Mathematics 153. Mathematical Biology-Evolutionary Dynamics]

Catalog Number: 3004

Martin A. Nowak

Half course (fall term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17

Introduces basic concepts of mathematical biology and evolutionary dynamics: evolution of



genomes, quasi-species, finite and infinite population dynamics, chaos, game dynamics, evolution of cooperation and language, spatial models, evolutionary graph theory, infection dynamics, somatic evolution of cancer.

Note: Expected to be given in 2011–12.

Prerequisite: Mathematics 21a,b.

Mathematics 154 (formerly Mathematics 191). Probability Theory

Catalog Number: 4306

Curtis T. McMullen

Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

An introduction to probability theory. Discrete and continuous random variables; distribution and density functions for one and two random variables; conditional probability. Generating functions, weak and strong laws of large numbers, and the central limit theorem. Geometrical probability, random walks, and Markov processes.

Note: This course, when taken for a letter grade, meets the General Education requirement for Empirical and Mathematical Reasoning and the Core area requirement for Quantitative Reasoning.

Prerequisite: A previous mathematics course at the level of Mathematics 19ab, 21ab, or higher. For students from 19ab or 21ab, previous or concurrent enrollment in Math 101 or 112 may be helpful. Freshmen who did well in Math 23, 25 or 55 last term are also welcome to take the course.

Mathematics 155r (formerly Mathematics 192r). Combinatorics

Catalog Number: 6612

Paul Bourgade

Half course (spring term). M., W., F., at 12. EXAM GROUP: 5

In combinatorics and elsewhere one often encounters a "design", or a collection of subsets of some finite set S whose elements are evenly distributed in a suitable sense; for instance the collection of edges of a regular graph (each of whose vertices is contained in the same number of edges) or the collection of lines of a finite projective plane (any two of whose points are contained in a unique line). Of particular interest are designs symmetric under a large group of permutations of S . The consideration of specific classical designs and their symmetries will lead us to the general study of designs and permutation groups. We conclude with the construction and detailed analysis of the remarkable designs associated with Mathieu's sporadic groups of permutations of 12- and 24- element sets.

Prerequisite: The ability to write proofs and some knowledge of linear algebra will be needed.

Mathematics 162. Introduction to Quantum Computing - (New Course)

Catalog Number: 93376

Clifford Taubes

Half course (spring term). M., W., F., at 2:30. EXAM GROUP: 7, 8

This course is meant to give an introduction to the fundamental mathematics of quantum computing. Notions from linear algebra, elementary number theory and probability theory are introduced along the way as needed.

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](#)
[Empirical and Mathematical Reasoning 14. Fat Chance](#)
[*Freshman Seminar 21u. Calculating Pi](#)
[*Freshman Seminar 24i. Mathematical Problem Solving](#)
[*Freshman Seminar 26s. Mathematical Structures and Gödel's Completeness Theorem](#)
[*Philosophy 142. Set Theory: The Higher Infinite: Proseminar](#)
[*Philosophy 142q. Topics in Set Theory: Proseminar - \(New Course\)](#)

Primarily for Graduates

Mathematics 212a (formerly Mathematics 212ar). Real Analysis

Catalog Number: 5446

Shlomo Z. Sternberg

Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

Banach spaces, Hilbert spaces and functional analysis. Distributions, spectral theory and the Fourier transform.

Prerequisite: Mathematics 114 or equivalent.

Mathematics 212br. Advanced Real Analysis

Catalog Number: 7294

Jun Yin

Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

Continuation of Mathematics 212ar. The spectral theorem for self-adjoint operators in Hilbert space. Applications to partial differential equations.

Prerequisite: Mathematics 212ar and 213a.

Mathematics 213a. Complex Analysis

Catalog Number: 1621

Curtis T. McMullen

Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

A second course in complex analysis: elliptic functions, canonical products, conformal mapping, extremal length, harmonic measure and capacity.

Prerequisite: Mathematics 55b or 113.

Mathematics 213br. Advanced Complex Analysis

Catalog Number: 2641

Yum Tong Siu

Half course (spring term). M., W., F., at 11. EXAM GROUP: 4

Fundamentals of Riemann surfaces. Topics may include sheaves and cohomology, potential theory, uniformization, and moduli.

Prerequisite: Mathematics 213a.

Mathematics 221. Commutative Algebra

Catalog Number: 8320



Jacob Lurie

Half course (fall term). M., W., F., at 11. EXAM GROUP: 4

A first course in commutative algebra: Noetherian rings and modules, Hilbert basis theorem, Cayley-Hamilton theorem, integral dependence, Noether normalization, the Nullstellensatz, localization, primary decomposition, discrete valuation rings, filtrations, completions and dimension theory.

Prerequisite: Mathematics 123.

Mathematics 222. Lie Groups and Lie Algebras

Catalog Number: 6738

Xinwen Zhu

Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

Lie theory, including the classification of semi-simple Lie algebras and/or compact Lie groups and their representations.

Prerequisite: Mathematics 114, 123 and 132.

Mathematics 223a (formerly Mathematics 251a). Algebraic Number Theory

Catalog Number: 8652

Mark Kisin

Half course (fall term). M., W., F., at 12. EXAM GROUP: 5

A graduate introduction to algebraic number theory. Topics: the structure of ideal class groups, groups of units, a study of zeta functions and L-functions, local fields, Galois cohomology, local class field theory, and local duality.

Prerequisite: Mathematics 129.

Mathematics 223b (formerly Mathematics 251b). Algebraic Number Theory

Catalog Number: 2783

Wei Zhang

Half course (spring term). M., W., F., at 12. EXAM GROUP: 5

Continuation of Mathematics 223a. Topics: adeles, global class field theory, duality, cyclotomic fields. Other topics may include: Tate's thesis or Euler systems.

Prerequisite: Mathematics 223a.

[Mathematics 224. Representations of Reductive Lie Groups]

Catalog Number: 25927

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.

Note: Expected to be given in 2011–12.

[Mathematics 229x. Introduction to Analytic Number Theory]

Catalog Number: 41034

Noam D. Elkies

Half course (spring term). M., W., F., at 2. EXAM GROUP: 7

Fundamental methods, results, and problems of analytic number theory. Riemann zeta function



and the Prime Number Theorem; Dirichlet's theorem on primes in arithmetic progressions; lower bounds on discriminants from functional equations; sieve methods, analytic estimates on exponential sums, and their applications.

Note: Expected to be given in 2011–12.

Prerequisite: Mathematics 113, 123

Mathematics 230a. Differential Geometry

Catalog Number: 0372

Andrew W. Cotton-Clay

Half course (fall term). M., W., F., at 1. EXAM GROUP: 6

Elements of differential geometry: Lie groups, vector bundles, principle bundles, connections, curvature, Chern classes, geodesics, Riemannian curvature, introduction to complex and Kahler manifolds.

Prerequisite: Mathematics 132 or equivalent.

Mathematics 230br. Advanced Differential Geometry

Catalog Number: 0504

Andrew W. Cotton-Clay

Half course (spring term). M., W., F., at 1. EXAM GROUP: 6

A continuation of Mathematics 230a. Topics in differential geometry: Analysis on manifolds. Laplacians. Hodge theory. Spin structures. Clifford algebras. Dirac operators. Index theorems. Applications.

Prerequisite: Mathematics 230a.

Mathematics 231a (formerly Mathematics 272a). Algebraic Topology

Catalog Number: 7275

Michael J. Hopkins

Half course (fall term). M., W., F., at 2. EXAM GROUP: 7

Covering spaces and fibrations. Simplicial and CW complexes, Homology and cohomology, universal coefficients and Künneth formulas. Hurewicz theorem. Manifolds and Poincaré duality.

Prerequisite: Mathematics 131 and 132.

Mathematics 231br (formerly Mathematics 272b). Advanced Algebraic Topology

Catalog Number: 9127

Michael J. Hopkins

Half course (spring term). M., W., F., at 2. EXAM GROUP: 7

Continuation of Mathematics 231a. Spectral sequences and techniques of computation. Vector bundles and characteristic classes. Bott periodicity. K-theory, cobordism and stable cohomotopy as examples of cohomology theories.

Prerequisite: Mathematics 231a.

Mathematics 232a (formerly Mathematics 260a). Introduction to Algebraic Geometry I

Catalog Number: 6168

Nir David Avni

Half course (fall term). M., W., F., at 10. EXAM GROUP: 3



Introduction to complex algebraic curves, surfaces, and varieties.

Prerequisite: Mathematics 123 and 132.

Mathematics 232br (formerly Mathematics 260b). Introduction to Algebraic Geometry II

Catalog Number: 9205

Hao Xu

Half course (spring term). M., W., F., at 10. EXAM GROUP: 3

The course will cover the classification of complex algebraic surfaces.

Prerequisite: Mathematics 232a.

[Mathematics 233a (formerly Mathematics 261a). Theory of Schemes I]

Catalog Number: 6246

Instructor to be determined

Half course (fall term). Hours to be arranged.

An introduction to the theory and language of schemes. Textbooks: Algebraic Geometry by Robin Hartshorne and Geometry of Schemes by David Eisenbud and Joe Harris. Weekly homework will constitute an important part of the course.

Note: Expected to be given in 2011–12.

Prerequisite: Mathematics 221 and 232a or permission of instructor.

[Mathematics 233br (formerly Mathematics 261b). Theory of Schemes II]

Catalog Number: 3316

Instructor to be determined

Half course (spring term). Hours to be arranged.

A continuation of Mathematics 233a. Will cover the theory of schemes, sheaves, and sheaf cohomology.

Note: Expected to be given in 2011–12.

Prerequisite: Mathematics 233a.

Mathematics 243 (formerly Mathematics 234). Evolutionary Dynamics

Catalog Number: 8136

Martin A. Nowak

Half course (spring term). Tu., 1–4. EXAM GROUP: 15, 16, 17

Advanced topics of evolutionary dynamics. Seminars and research projects.

Prerequisite: Experience with mathematical biology at the level of Mathematics 153.

Mathematics 253. Introduction to Computability and Randomness - (New Course)

Catalog Number: 67781

Rachel Louise Epstein

Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

An introduction to computability theory and algorithmic randomness. Topics: Turing reducibility, computably enumerable sets, complexity, notions of randomness, and martingales, as well as interactions between computability and randomness.

Mathematics 255. Topics in General Relativity - (New Course)

Catalog Number: 10058



Lars Ake Andersson (Max Planck Institute)

Half course (spring term). M., W., F., at 11. EXAM GROUP: 4

Following an introduction to the Cauchy problem in general relativity from the point of view of nonlinear hyperbolic equations, we review the geometry of black hole spacetimes and discuss methods for analyzing the global behavior of waves on such backgrounds.

Mathematics 258x. Random Matrix - (New Course)

Catalog Number: 80974

Hong-Tzer Yau

Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

The goal of this course is to give a detailed account of the recent advances concerning the local statistics of eigenvalue distributions of random matrices. Basic knowledge of probability theory and measure theory are required.

Mathematics 267x. Semiclassical Analysis - (New Course)

Catalog Number: 29452

Shlomo Z. Sternberg

Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

Typical subjects are high frequency approximations to solutions of hyperbolic equations and the asymptotics of Schrodinger's equation when Planck's constant is thought of as a small parameter. Background in symplectic geometry and functional analysis will be provided.

Mathematics 276x. General Relativity Seminar - (New Course)

Catalog Number: 76687

Lars Ake Andersson (Max Planck Institute)

Half course (spring term). M., W., F., at 1. EXAM GROUP: 6

A literature course in mathematical general relativity, based on research papers. The presentation will involve significant participation from the students.

Mathematics 277x. Mapping Class Groups and Teichmuller Theory - (New Course)

Catalog Number: 96081

Vaibhav Suresh Gadre

Half course (spring term). M., W., F., at 12. EXAM GROUP: 5

Topics in the study of mapping class groups and Teichmuller Theory. These may include: random walks on mapping class groups and properties of Teichmuller flow.

Mathematics 278x. Analytic Methods in Complex and Algebraic Geometry - (New Course)

Catalog Number: 54129

Yum Tong Siu

Half course (spring term). M., W., F., at 10. EXAM GROUP: 3

A discussion of methods of $\bar{\partial}$ -estimates and multiplier ideal sheaves. Topics: effective results in algebraic geometry, invariance of plurigena, finite generation of canonical rings, the abundance conjecture, and algebraic-geometric techniques in PDE estimates.

Mathematics 281x. Degeneration Methods in Enumerative Geometry - (New Course)

Catalog Number: 44559



Yu-jong Tzeng

Half course (fall term). Th., 1–2:30, W., 4:30–6.

Topics may include Hilbert schemes, degeneration methods, algebraic cobordism, theory of counting nodal curves and their applications.

Mathematics 282x. Algebraic Differential Equations - (New Course)

Catalog Number: 59666

Xinwen Zhu

Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

An introduction to algebraic differential equations both in characteristic zero and characteristic p , and some applications.

Mathematics 283x. Some Aspects of Trace Formulae - (New Course)

Catalog Number: 60789

Wei Zhang

Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

An introduction to the Arthur-Selberg trace formula and the relative trace formula. Subtopics: basic harmonic analysis on p -adic groups (orbital integrals and Shalika germs), counting points on Shimura varieties, etc.

Mathematics 286x. Finite Linear Groups and Their Representations - (New Course)

Catalog Number: 74773

Nir David Avni

Half course (fall term). M., W., F., at 12. EXAM GROUP: 5

Structure of finite subgroups of $GL(n, F)$ Kirillov's Orbit Method, structure of reductive groups over finite fields, Deligne-Lusztig theory.

Mathematics 287x. Algebraic L-Theory and Surgery - (New Course)

Catalog Number: 23251

Jacob Lurie

Half course (spring term). M., W., F., at 1. EXAM GROUP: 6

We will develop the algebraic L-theory of quadratic forms and its applications to the classification of manifolds of large dimension.

Mathematics 294x. Complex Manifolds, Its Complex Structure and the Metrics Supported by Them - (New Course)

Catalog Number: 38358

Shing-Tung Yau

Half course (fall term). M., W., F., at 2. EXAM GROUP: 7

A lecture on the space of complex structures and the intrinsic metrics associated to the complex structure and its bundles. A discussion of nonlinear equations. A possible discussion of some connections with string theory.

Mathematics 296. Complex Dynamics and Fractal Groups - (New Course)

Catalog Number: 53465

Sarah Colleen Koch



Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

Introduction to complex dynamics and self-similar groups. Topics: dynamics of rational maps, Thurston's topological characterization of rational maps, iterated monodromy groups, Teichmüller spaces, mapping class groups, and the classification of twisted rabbits.

Mathematics 297. Stochastic Analysis - (New Course)

Catalog Number: 68572

Paul Bourgade

Half course (fall term). M., W., F., at 1. EXAM GROUP: 6

This course consists of both the classical properties of stochastic processes (Brownian motion, Itô calculus) and a differential analysis of these random paths. This requires notions of probability theory and functional analysis.

Graduate Courses of Reading and Research

***Mathematics 300. Teaching Undergraduate Mathematics**

Catalog Number: 3996

Robin Gottlieb and Jameel Al-Aidroos

Half course (fall term). Tu., 1–2:30. EXAM GROUP: 15, 16

Become an effective instructor. This course focuses on observation, practice, feedback, and reflection providing insight into teaching and learning. Involves iterated videotaped micro-teaching sessions, accompanied by individual consultations. Required of all mathematics graduate students.

***Mathematics 304. Topics in Algebraic Topology**

Catalog Number: 0689

Michael J. Hopkins 4376

***Mathematics 306. Topics in Representation Theory**

Catalog Number: 9397

Nir Avni

***Mathematics 308. Topics in Number Theory and Modular Forms**

Catalog Number: 0464

Benedict H. Gross 1112

***Mathematics 313. Topics in Geometrical Representation Theory**

Catalog Number: 65047

Xinwen Zhu 6373

***Mathematics 314. Topics in Differential Geometry and Mathematical Physics**

Catalog Number: 2743

Shlomo Z. Sternberg 1965



***Mathematics 316. Topics in Algebraic Topology / Arithmetic Geometry**

Catalog Number: 97966

Kirsten Graham Wickelgren 6374

***Mathematics 317. Topics in Number Theory and Algebraic Geometry**

Catalog Number: 46444

Joseph David Rabinoff 6356

***Mathematics 318. Topics in Number Theory**

Catalog Number: 7393

Barry C. Mazur 1975 (on leave spring term)

***Mathematics 320. Topics in Deformation Theory**

Catalog Number: 84773

Hao Xu 6520

***Mathematics 321. Topics in Mathematical Physics**

Catalog Number: 2297

Arthur M. Jaffe 2095

***Mathematics 327. Topics in Several Complex Variables**

Catalog Number: 0409

Yum Tong Siu 7550

***Mathematics 332. Topics in Algebraic Geometry - (New Course)**

Catalog Number: 83679

Yu-jong Tzeng 6722

***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 336. Topics in Mathematical Logic - (New Course)**

Catalog Number: 32157

Rachel Louise Epstein 6721

***Mathematics 338. Topics in Complex Dynamics**

Catalog Number: 61551

Sarah Colleen Koch 6308



***Mathematics 345. Topics in Geometry and Topology**

Catalog Number: 4108

Peter B. Kronheimer 1759

***Mathematics 346y. Topics in Analysis: Quantum Dynamics**

Catalog Number: 1053

Horng-Tzer Yau 5260

***Mathematics 350. Topics in Mathematical Logic**

Catalog Number: 5151

Gerald E. Sacks 3862 (on leave spring term)

***Mathematics 351. Topics in Algebraic Number Theory**

Catalog Number: 3492

Richard L. Taylor 1453 (on leave 2010-11)

***Mathematics 352. Topics in Algebraic Number Theory**

Catalog Number: 86228

Mark Kisin 6281

***Mathematics 353. Topics in Teichmüller Theory - (New Course)**

Catalog Number: 98786

Vaibhav Suresh Gadre 6623

***Mathematics 356. Topics in Harmonic Analysis**

Catalog Number: 6534

Wilfried Schmid 5097

***Mathematics 358. Topics in Arithmetic Geometry - (New Course)**

Catalog Number: 30858

Junecue Suh 6835 (on leave 2010-11)

***Mathematics 365. Topics in Differential Geometry**

Catalog Number: 4647

Shing-Tung Yau 1734

***Mathematics 366. Topics in Probability and Analytic Number Theory - (New Course)**

Catalog Number: 64285

Paul Bourgade 6720

***Mathematics 373. Topics in Algebraic Topology**

Catalog Number: 49813

Jacob Lurie 5450



***Mathematics 377. Topics in Number Theory - (New Course)**

Catalog Number: 90085

Sophie Marguerite Morel 6309 (on leave 2010-11)

***Mathematics 381. Introduction to Geometric Representation Theory**

Catalog Number: 0800

Dennis Gaitsgory 5259 (on leave fall term)

***Mathematics 382. Topics in Algebraic Geometry**

Catalog Number: 2037

Joseph D. Harris 2055

***Mathematics 388. Topics in Mathematics and Biology**

Catalog Number: 4687

Martin A. Nowak 4568 (on leave fall term)

***Mathematics 389. Topics in Number Theory**

Catalog Number: 6851

Noam D. Elkies 2604

***Mathematics 394. Topics in Many-Body Quantum System**

Catalog Number: 9143

Jun Yin

***Mathematics 395. Topics in Symplectic, Contact, and Low - Dimensional Topology**

Catalog Number: 10029

Andrew Cotton-Clay

***Mathematics 397. Some Aspects of Trace Formula - (New Course)**

Catalog Number: 15751

Wei Zhang 6723

Medical Sciences

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

The 2010-11 membership of this committee has not yet been finalized. Complete membership information for 2010-11 will be posted as soon as it becomes available.

***Faculty of the Committee on Higher Degrees in Medical Sciences***

The Division of Medical Sciences makes available to graduate students the facilities of the preclinical departments and research laboratories of the Harvard Medical School and its affiliated hospitals and institutions. The Division offers advanced courses and research in cell biology, biological chemistry and molecular pharmacology, genetics, immunology, microbiology and molecular genetics, neurosciences, pathology, physiology, and virology. Qualified undergraduates may be admitted with the permission of the instructor and the student's department of concentration, as far as the facilities of the special laboratories permit. Inquiries should be addressed to the Division of Medical Sciences, Harvard Medical School, 260 Longwood Avenue, Boston, MA 02115, or telephone (617) 432-0162, email address dms@hms.harvard.edu.

For other courses in biological sciences, see listings of the Program in Biological Sciences in Public Health, Biophysics and Molecular and Cellular Biology.

Biological and Biomedical Sciences (BBS)

BBS is an interdepartmental program within the Division of Medical Sciences at Harvard Medical School. BBS faculty are primarily drawn from five preclinical departments of the Medical School and affiliated hospitals: Biological Chemistry and Molecular Pharmacology (BCMP); Cell Biology; Genetics; Human Biology and Translational Medicine (HBTM); Microbiology and Molecular Genetics; and Pathology.

Graduate Courses of Reading and Research***BBS 301. Teaching Practicum - (New Course)**

Catalog Number: 77888

David L. Van Vactor (Medical School) 2089 and members of the Departments

Course for TAs currently teaching in an approved BBS Core Course. Goals of this course: to better prepare TAs for the course they are working on, and to teach skills in instruction and curriculum planning.

***BBS 333r. Introduction to Research in Biological and Biomedical Sciences**

Catalog Number: 1206

David L. Van Vactor (Medical School) 2089

Note: BBS students register for lab rotations under this course number.

***BBS 380. Reading and Research in Biological and Biomedical Sciences**

Catalog Number: 0349

David L. Van Vactor (Medical School) 2089

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

Richard Ian Gregory (Medical School), Kami Ahmad (Medical School), Stephen Buratowski (Medical School), Jack Szostak (Medical School), and Johannes Walter (Medical School)
Half course (fall term). M., W., F., 10:30-12.

An advanced treatment of molecular biology's Central Dogma. Considers the molecular basis of information transfer from DNA to RNA to protein, using examples from eukaryotic and prokaryotic systems. Lectures, discussion groups, and research seminars.

Note: Offered jointly with the Medical School as BP 723.0.

Prerequisite: Intended primarily for graduate students familiar with basic molecular biology or with strong biology/chemistry background.

[BCMP 201. Proteins: Structure, Function and Catalysis]

Catalog Number: 5068

James J. Chou (Medical School), Stephen C. Blacklow (Medical School), Michael J. Eck (Medical School), William Shih (Medical School), Piotr Sliz, and Michael S. Wolfe (Medical School)

Half course (spring term). Hours to be arranged.

Protein biochemistry with emphasis on the interrelated roles of protein structure, catalytic activity, and macromolecular interactions in biological processes. Both fundamental principles and experimental methods will be covered.

Note: Expected to be given in 2011–12. The course is intended for all Division of Medical Sciences (DMS) graduate students and is open to advanced undergraduates. Offered jointly with the Medical School as BP 714.0.

BCMP 207. Molecular Approaches to Drug Action, Discovery, and Design

Catalog Number: 0529 Enrollment: May be limited.

Donald M. Coen (Medical School), Nathanael Gray (Medical School), Suzanne Walker (Medical School), and Timothy J. Mitchison (Medical School)

Half course (spring term). W., 3–4:30, Tu., Th., 3:30–5:30.

Application of molecular, systems, and structural biology, genetics, genomics, enzymology, and chemistry to drug action and development of new therapies. Analyzes molecular underpinnings of pharmacological principles. Examples drawn from diseases including cancer and AIDS.

Note: Offered jointly with the Medical School as BP 715.0. Primarily for graduate students.

[*BCMP 213. Behavioral Pharmacology]

Catalog Number: 4782 Enrollment: Limited to 15.

Jack Bergman (Medical School) and Carol A. Paronis (Medical School)



Half course (spring term). Hours to be arranged.

Introduction to CNS pharmacology and behavior in seminar format. Effects of psychomotor stimulants, antischizophrenics, opioid analgesics, and antianxiety agents on behavior. Emphasis on methodology and pharmacological analysis; attention to tolerance, drug dependence/addiction.

Note: Expected to be given in 2011–12. Offered jointly with the Medical School as BP 719.0.

***BCMP 218. Molecular Medicine**

Catalog Number: 2049 Enrollment: Limited to 35.

Irving M. London (Medical School), David E. Cohen (Medical School), and George Q. Daley (Medical School)

Half course (fall term). Tu., 1–3.

A seminar on various human diseases and their underlying genetic or biochemical bases. Primary scientific papers discussed. Lectures by faculty and seminars conducted by students, faculty supervision.

Note: Faculty mentors will guide student-led discussions of the papers. Jointly offered with the Medical School as HT 140.

Prerequisite: Molecular Biology and Biochemistry.

BCMP 228. Macromolecular NMR

Catalog Number: 3969

Gerhard Wagner (Medical School) and James J. Chou (Medical School)

Half course (fall term). M., F., 2–3:30.

Theory and practice of modern methods of macromolecular structure determination using multi-dimensional NMR.

Note: Given in alternate years. Offered jointly with the Medical School as BP 722.0. Classroom lectures on Mondays and Fridays. The course will include classroom lectures, practical training and hands-on problem solving. The latter includes basic aspects of spectrometer operation, computer-based assignment of protein NMR spectra and structure calculation.

BCMP 230. Principles and Practice of Drug Development

Catalog Number: 1295

Stan Neil Finkelstein (Medical School) and Robert H. Rubin (Medical School)

Half course (fall term). Th., 3–6.

Critical assessment of the major issues and stages of developing a pharmaceutical or biopharmaceutical. Drug discovery, preclinical development, clinical investigation, manufacturing and regulatory issues considered for small and large molecules. Economic considerations of the drug development process.

BCMP 234. Cellular Metabolism and Human Disease

Catalog Number: 9644

Thomas Michel (Medical School), Robert A. Lue and members of the Department

Half course (spring term). M., W., F., 9–10:30.

Cellular and organismal metabolism, with focus on interrelationships between key metabolic pathways and human disease states. Genetic and acquired metabolic diseases and functional consequences for specific organ systems. Lectures, conferences are integrated with clinical



encounters.

Note: Also listed as MCB 234. Lectures for this class are transmitted live to and from electronic classrooms located at HMS and in Cambridge; the inter-campus video link permits real-time interactions between students and faculty at each site. Small conference sections are held on both campuses; weekly clinical encounters take place only at the HMS classroom.

Prerequisite: Knowledge of introductory biochemistry, genetics, and cell biology required (MCB 52 and 54 or equivalent); one year of organic chemistry.

BCMP 235. Principles of Human Disease: Physiology and Pharmacology

Catalog Number: 3769

David E. Golan (Medical School), Alain Viel, and members of the Department
Half course (fall term). M., W., F., 9-10:30.

Principles of human physiology, pathophysiology, and drug action (including mechanisms of organ function in health and disease and strategies for designing drug-based therapeutic interventions) through lectures, readings, clinical scenarios, simulator sessions, and patient presentations.

Note: Students may attend lectures in either Cambridge or Boston as lectures will be transmitted live from HMS to Cambridge and vice versa; the inter-campus link permits real-time interactions among students and faculty at both sites.

Prerequisite: Knowledge of introductory biochemistry, molecular biology, and cell biology required (MCB52 and MCB54 or equivalent); one year of organic chemistry.

Graduate Courses of Reading and Research

***BCMP 300. Enzyme Mechanisms**

Catalog Number: 1867

Christopher T. Walsh (Medical School) 2036

***BCMP 309. Regulation of Membrane Protein and Lipid Dynamics: Molecular Mechanisms and Biological Implications**

Catalog Number: 1558

David E. Golan (Medical School) 1558

***BCMP 310. Molecular and Cellular Mechanisms of Insulin Action**

Catalog Number: 4299

Morris F. White (Medical School) 3158

***BCMP 311. Structure of Viruses, Viral Proteins, Receptors, Transcription Factors**

Catalog Number: 3623

Stephen C. Harrison (Medical School) 3597

***BCMP 312. Downregulating DNA Repair: Phosphatases & MicroRNAs**

Catalog Number: 30165

Dipanjan Chowdhury 6266



***BCMP 314. Protein NMR Spectroscopy of Membrane Protein**

Catalog Number: 3449

James J. Chou (Medical School) 4950

***BCMP 315. Growth Factor Structure and Function**

Catalog Number: 6034

Michael Klagsbrun (Medical School) 3167

***BCMP 316. Signal Transduction and Phosphorylation in Heart Disease**

Catalog Number: 96794

Maria Irene Kontaridis 6398

***BCMP 317. Signal Transduction and Related Molecular Pathophysiology**

Catalog Number: 3354

Steven E. Shoelson (Medical School) 3951

***BCMP 318. Innate Immunity Against RNA Viruses**

Catalog Number: 45272

Sun Hur (Medical School) 6403

***BCMP 319. Histone Variants and Chromosome Biology**

Catalog Number: 1748

Kami Ahmad (Medical School) 4592

***BCMP 320. Systems and Synthetic Biology**

Catalog Number: 0265

Pamela A. Silver (Medical School) 1595

***BCMP 322. Thyroid Hormone Metabolism and Action**

Catalog Number: 2050

Antonio C. Bianco (Medical School) 5387

***BCMP 324. Structure and Replication of DNA**

Catalog Number: 5059

Charles C. Richardson (Medical School) 2479

***BCMP 325. Genomic Instability and Cancer Susceptibility**

Catalog Number: 4110

Alan D. D'Andrea (Medical School) 3532

***BCMP 328. Computational Analysis of Sequence Variation and Divergence**

Catalog Number: 2468

Shamil R. Sunyaev (Medical School) 4671



***BCMP 329. Structure Biology of Cytoplasmic Signal Transduction**

Catalog Number: 5005

Michael J. Eck (Medical School) 1739

***BCMP 331. Molecular Mechanisms of Neurodegenerative Diseases and Therapeutic Approaches**

Catalog Number: 9727

Michael S. Wolfe (Medical School) 4543

***BCMP 332. Structural Neurology**

Catalog Number: 0276

Peter T. Lansbury (Medical School) 2115

***BCMP 334. MicroRNA Functions in Cancers and Quiescence - (New Course)**

Catalog Number: 79343

Instructor to be determined

***BCMP 335. Biochemical and Genetic Analysis of Eukaryotic Gene Expression**

Catalog Number: 8052

Stephen Buratowski (Medical School) 1790

***BCMP 337. Drosophila Molecular Genetics**

Catalog Number: 0782

Welcome W. Bender (Medical School) 7083

***BCMP 338. Eukaryotic Gene Regulation**

Catalog Number: 0549

Kevin Struhl (Medical School) 7415

***BCMP 339. Regulation of the Cellular Uptake of Macromolecular Nutrients**

Catalog Number: 3453

Marianne Wessling-Resnick (Public Health) 1315

***BCMP 340. Biologically Active Small Molecules**

Catalog Number: 8300

Jon Clardy (Medical School) 4667

***BCMP 343. Molecular Genetics of Herpes Viruses**

Catalog Number: 0868

Donald M. Coen (Medical School) 7617

***BCMP 344. Molecular Pharmacology of Excitable Membranes**

Catalog Number: 0200

Gary R. Strichartz (Medical School) 7530



***BCMP 345. Transcription Factors in Hematopoiesis and Leukemogenesis**

Catalog Number: 4792

Alan B. Cantor (Medical School) 5150

***BCMP 348. Chromatin and Cancer**

Catalog Number: 6409

Charles M. Roberts (Medical School) 5151

***BCMP 349. Targeting Deregulated Apoptotic and Transcriptional Pathways in Cancer**

Catalog Number: 1071

Loren D. Walensky (Medical School) 5665

***BCMP 350. Signaling Pathways in Pancreatic Cancer**

Catalog Number: 1254

Nabeel El-Bardeesy (Medical School) 6164

***BCMP 352. Chemical Mediators in Inflammation and Resolution**

Catalog Number: 4853

Charles N. Serhan (Medical School) 3163

***BCMP 353. Epigenomics and Chromatin Systems Biology**

Catalog Number: 8682

Yujiang Shi (Medical School) 5509

***BCMP 355. Transcriptional Control of Hematopoiesis and Leukemia**

Catalog Number: 4489

Hanno Reinhard Hock (Medical School) 5660

***BCMP 356. NMR Spectroscopy of Proteins and Metabolites**

Catalog Number: 8093

Gerhard Wagner (Medical School) 2626

***BCMP 358. Targeting Apoptosis Regulation in Cancer**

Catalog Number: 6735

Anthony G. Letai (Medical School) 5663

***BCMP 359. Molecular Mechanisms of Signal Transduction**

Catalog Number: 8520

Elaine A. Elion (Medical School) 2941

***BCMP 360. Regeneration of Cartilage and Skeletal Muscle**

Catalog Number: 6934

Andrew B. Lassar (Medical School) 2946



***BCMP 361. X-Ray Crystallographic Studies of Viruses and Proteins**

Catalog Number: 4155

James M. Hogle (Medical School) 2943

***BCMP 362. Eukaryotic Survival Decisions**

Catalog Number: 4972

David E. Fisher (Medical School) 1800

***BCMP 363. The Mechanics and Regulation of Mitosis**

Catalog Number: 4981

David Pellman (Medical School) 3702

***BCMP 366. Stem Cells in Disease and Development**

Catalog Number: 9236

George Q. Daley (Medical School) 4951

***BCMP 370. Advanced Topics in Biological Chemistry and Molecular Pharmacology**

Catalog Number: 0482

David Lopes Cardozo (Medical School) 5995

A series of reading and discussion seminars, each running for a half term (7 weeks). Two seminars, which can be taken in different terms, are required for credit.

Note: Non-DMS students must get permission from the Division of Medical Sciences before registering for this course. Please contact us at 617-432-0162 or visit the DMS Office at T-MEC 435, 260 Longwood Avenue, Boston.

***BCMP 371. Maintenance of genome stability in S phase**

Catalog Number: 3739

Johannes Walter (Medical School) 3846

***BCMP 372. Methods and Applications in Computational Molecular Biology**

Catalog Number: 1638

Frederick P. Roth (Medical School) 3912

***BCMP 374. Growth Factors and Signal Transduction**

Catalog Number: 1179

Michael R. Freeman (Medical School) 5169

***BCMP 375. Biomolecular Nanotechnology**

Catalog Number: 3288

William Shih (Medical School) 5256

***BCMP 376. Mechanisms of Action of Antibiotics**

Catalog Number: 3033

Daniel E. Kahne 5065



***BCMP 377. Quantitative Proteomics of Cancer Progression**

Catalog Number: 5225

Jarrold Marto (Medical School) 5326

***BCMP 378. Mechanisms of Hepatic Cholesterol Elimination**

Catalog Number: 6669

David E. Cohen (Medical School) 3478

***BCMP 379. Biochemical and Molecular Regulation of Vascular Growth**

Catalog Number: 9374

Marsha Moses (Medical School) 5388

***BCMP 380. Chemical Approaches to Cell Division**

Catalog Number: 0726

Ulrike Sophie Eggert (Medical School) 5729

***BCMP 381. Functional Small Molecules for Biological Discovery**

Catalog Number: 8841

Nathanael Gray (Medical School) 5730

***BCMP 382. Mechanisms of RNAi in Stem Cells**

Catalog Number: 9601

Richard Ian Gregory (Medical School) 5743

***BCMP 383. Integrated and Functional Genomic Studies of Human Cancer**

Catalog Number: 5334

Levi Alexander Garraway (Medical School) 6203

***BCMP 384. Embryonic stem cells, Nuclear Transfer, Cancer, Reprogramming**

Catalog Number: 5330

Konrad Hochedlinger 6101

Quarter Courses for Graduate Students Only

***BCMP 300qc. Advanced Topics in Biological Chemistry and Molecular Pharmacology - (New Course)**

Catalog Number: 69187

David Lopes Cardozo (Medical School) 5995

A series of reading and discussion seminars, each running for a half term (7 weeks).

Note: Non-DMS students must get permission from the Division of Medical Sciences before registering for this course. Please contact us at 617-432-0162 or visit the DMS Office at T-MEC 435, 260 Longwood Avenue, Boston.

***BCMP 301qc. Translational Pharmacology - (New Course)**

Catalog Number: 97487 Enrollment: Enrollment may be limited.

Donald M. Coen (Medical School) 7617 and David E. Golan (Medical School) 1558



Intensive January course covering basic principles of pharmacology and how they are translated into the development of new drugs. Meets for 10 days in January.

Note: Go to [http://www.med.harvard.edu/dms/Current/DMS Quarter Courses.html](http://www.med.harvard.edu/dms/Current/DMS%20Quarter%20Courses.html) for more details.

***BCMP 302qc. Molecular Movies: Introduction to 3D Visualization with Maya - (New Course)**

Catalog Number: 45965 Enrollment: Limited to 8. Will accept up to 12 auditors.

David Lopes Cardozo (Medical School) 5995 and Members of the Department
Quarter course (fall term).

Introduction to advanced scientific visualization techniques using leading 3D software packages and "Molecular Maya." Focus will be placed on adapting existing 3D modeling/animation tools for purposes of visualizing biological processes.

Note: Go to [http://www.med.harvard.edu/dms/Current/DMS Quarter Courses.html](http://www.med.harvard.edu/dms/Current/DMS%20Quarter%20Courses.html) for more details.

***BCMP 303qc. Molecular Movies: Advanced 3D Visualization with Maya - (New Course)**

Catalog Number: 61072 Enrollment: Limited to 18.

David Lopes Cardozo (Medical School) 5995
Quarter course (spring term). F., 9–12.

Explore Maya's vast visualization toolset. Advanced techniques in each of the phases of the 3D production pipeline will be presented including dynamics systems like Hair, nCloth, nParticles and PaintFx. Introduction to Maya's Embedded Language (MEL).

Note: Go to [http://www.med.harvard.edu/dms/Current/DMS Quarter Courses.html](http://www.med.harvard.edu/dms/Current/DMS%20Quarter%20Courses.html) for more details.

Prerequisite: Molecular Movies: Introduction to 3D Visualization with Maya required.

***BCMP 304qc. Stem Cells: Properties and Applications - (New Course)**

Catalog Number: 76179 Enrollment: Limited to 20.

Derrick J. Rossi (Medical School) 6330 and Carla Kim (Medical School) 5742
Quarter course (spring term). Th., 2–4.

Provides students with an understanding of the fundamental concepts and approaches of stem cell biology, including adult stem cells, pluripotent stem cells, and cancer stem cells.

Note: More details can be found by going to the Division of Medical Sciences website, then clicking Current Students and selecting Quarter Courses.

***BCMP 307qc. Approaches to Drug Action, Discovery, and Design - (New Course)**

Catalog Number: 52371 Enrollment: May be limited.

Donald M. Coen (Medical School) 7617, Nathanael Gray (Medical School) 5730, and members of the Department

Quarter course (spring term). Tu., Th., 3:30–5:30.

Application of molecular, systems, and structural biology, genetics, genomics, enzymology, and chemistry to drug action and development of new therapies. Analyzes molecular underpinnings of pharmacological principles. Examples drawn from diseases including cancer and AIDS.

Cell Biology



Primarily for Graduates

Cell Biology 201. Molecular Biology of the Cell

Catalog Number: 1044

Sheila Thomas (Medical School), Steven P. Gygi (Medical School), and members of the Department

Half course (spring term). M., W., 10:30-12, and sections F., at 10:30-12.

Molecular basis of cellular compartmentalization, protein trafficking, cytoskeleton dynamics, mitosis, cell locomotion, cell cycle regulation, signal transduction, cell-cell interaction, cell death, and cellular/biochemical basis of diseases. Methodological focus on light microscopy as a research tool.

Note: Offered jointly with the Medical School as CB 713.0.

Prerequisite: Basic knowledge in biochemistry, genetics and cell biology.

Cell Biology 207. Developmental Biology: Molecular Mechanisms of Vertebrate Development

Catalog Number: 2044 Enrollment: Limited to 25.

Andrew B. Lassar (Medical School), Patricia A. D'Amore (Medical School), Alan J. Davidson (Medical School), John G. Flanagan (Medical School), Jordan A. Kreidberg (Medical School), Richard L. Maas (Medical School), Clifford J. Tabin (Medical School), and Malcolm Whitman (Dental School)

Half course (spring term). Tu., Th., 2–4.

Analyzes the developmental programs of frog, chick, zebrafish, and mouse embryos, emphasizing experimental strategies for understanding the responsible molecular mechanisms that pattern the vertebrate embryo.

Note: Offered jointly with the Medical School as CB 710.0. Includes lectures and conference sessions in which original literature is discussed in depth. Short research proposals are required in lieu of exams.

[Cell Biology 211 (formerly Cell Biology 211a). Molecular and Systems Level Cancer Cell Biology]

Catalog Number: 5771

Piotr Sicinski (Medical School), Jarrod Marto (Medical School), and Marc Vidal (Medical School)

Half course (spring term). M., W., 12–1:30.

Examines the molecular and systems basis of cancer including alterations in signal transduction, cell cycle, apoptosis and DNA repair.

Note: Expected to be given in 2011–12. Expected to be given 2011 - 2012. Given alternate years with Cell Biology 212. Offered jointly with the Medical School as CB 704.0.

Prerequisite: General knowledge of biochemistry, molecular genetics, and cell biology.

Cell Biology 212 (formerly Cell Biology 211b). Biology of the Cancer Cell

Catalog Number: 4169

James A. DeCaprio (Medical School)

Half course (spring term). M., W., 12-1:30.

Examines the molecular basis of human cancer, including lung, breast, prostate, melanoma and



leukemia. Concepts including stem cells, senescence, genomic instability, angiogenesis, oncogenes, tumor suppressors and viruses in human cancer will be examined.

Note: Given alternate years with Cell Biology 211.

Prerequisite: Advanced biochemistry, molecular genetics, and cell biology.

[Cell Biology 225. Hormonally Active Pollutants]

Catalog Number: 94802

Joan V. Ruderman (Medical School)

Half course (spring term). Th., 4:30–6:30.

A surprising number of environmental pollutants can mimic or interfere with developmental and physiological effects of steroid hormones. This course examines landmark discoveries and covers current work in this emerging area.

Note: Expected to be given in 2011–12. The first half of this course can be taken independently as a quarter course, Cell Biology 300a. Hormonally Active Pollutants.

Prerequisite: Open to all graduate and medical students, and to advanced undergraduates.

Cell Biology 226. Concepts in Development, Self-Renewal, and Repair

Catalog Number: 8747 Enrollment: Limited to 14.

Iain A. Drummond (Medical School), Alan J. Davidson (Medical School), Niels Geijsen (Medical School), N. Nanda Nanthakumar (Medical School), Elizabeth A. Perkins (Medical School), and David T. Scadden

Half course (fall term). F., 2–5.

Explores developmental mechanisms through the life cycle, contrasting pluripotency and cell fate restriction in embryos and adult tissues. In depth analysis of in vivo approaches, with emphasis on adult stem cells, tissue repair and self-renewal.

Note: Offered jointly with the Medical School as CB 721.0. For more information visit: www.mgh.harvard.edu/bbs/index.htm

Prerequisite: Upper division cell biology or equivalent.

Graduate Courses of Reading and Research

***Cell Biology 300. Advanced Topics in Cell, Molecular, and Developmental Biology**

Catalog Number: 5825

David Lopes Cardozo (Medical School) 5995

A series of reading and discussion seminars, each running for a half term (seven weeks). Different topics are covered each term.

Note: Two seminars, which can be taken in different terms, are required for credit. Non-DMS students must get permission from the Division of Medical Sciences before registering for this course. Please contact us at 617-432-0162 or visit the DMS Office at T-MEC 435, 260 Longwood Avenue, Boston.

***Cell Biology 304. Regulation of the Cell Cycle**

Catalog Number: 0414

Joan V. Ruderman (Medical School) 2622



***Cell Biology 305. Bone Cells Differentiation, Function and Signaling**

Catalog Number: 60379

Roland Elie Baron (Dental School) 6397

***Cell Biology 306. Sirtuins, DNA Repair and Metabolic Homeostasis**

Catalog Number: 75486

Raul Mostoslavsky 6402

***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. Coupled Interactions in Gene Expression Factories**

Catalog Number: 2523

Robin Reed (Medical School) 2319

***Cell Biology 310. Mechanisms of Vertebrate Hedgehog Signaling**

Catalog Number: 9189

Adrian Salic (Medical School) 5351

***Cell Biology 311. Cardiovascular Signal Transduction**

Catalog Number: 9196

Thomas Michel (Medical School) 4392

***Cell Biology 312. Molecular Mechanisms of Transcriptional Control**

Catalog Number: 8538

Anders Michael Naar (Medical School) 4328

***Cell Biology 313. Systems Biology of Mammalian Signal Transduction**

Catalog Number: 23964

Peter K. Sorger (Medical School) 5544

***Cell Biology 314. Molecular Biology of Extracellular Matrix**

Catalog Number: 5077

Bjørn R. Olsen (Medical School) 1164

***Cell Biology 316. Mechanism and Function of Intracellular Protein Turnover**

Catalog Number: 1017

Alfred L. Goldberg (Medical School) 2827



***Cell Biology 317. Mechanisms of Programmed Cell Death**

Catalog Number: 2270

Junying Yuan (Medical School) 2105

***Cell Biology 318. Molecular Biology of Cell Growth Regulation and Transformation**

Catalog Number: 3355

John Blenis (Medical School) 2612

***Cell Biology 321. Neuronal Pathfinding and Synaptogenesis**

Catalog Number: 4841

David L. Van Vactor (Medical School) 2089

***Cell Biology 324. Tissue-specific Leukocyte Trafficking in Health and Disease - (New Course)**

Catalog Number: 42928

Instructor to be determined

***Cell Biology 325. Molecular and Cellular Regulators of Cancer Progression - (New Course)**

Catalog Number: 27821

Instructor to be determined

***Cell Biology 326. Signal Transduction During Early Development**

Catalog Number: 1872

Malcolm Whitman (Dental School) 3267

***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. Mechanochemical Regulation of Cytoskeleton Dynamics**

Catalog Number: 86511

Gaudenz Danuser (Medical School) 6527

***Cell Biology 332. Mass Spectrometry and Proteomics**

Catalog Number: 1568

Steven P. Gygi (Medical School) 3939

***Cell Biology 333. Electron Microscopic Structure Determination**

Catalog Number: 9254

Thomas Walz (Medical School) 3778



***Cell Biology 335. Signal Transduction**

Catalog Number: 2542

Lewis C. Cantley (Medical School) 1287

***Cell Biology 336. Signal Transduction in Normal and Transformed Cells**

Catalog Number: 6833

Joan S. Brugge (Medical School) 1486

***Cell Biology 339. Cell Morphogenesis and Regulation**

Catalog Number: 3898

Marc W. Kirschner (Medical School) 1078

***Cell Biology 340. Dissection of Angiogenic Signaling in Zebrafish**

Catalog Number: 7792

Joanne Chan (Medical School) 5391

***Cell Biology 341. Centriole, Centrosome and Cilium: Biogenesis, Function and Evolution**

Catalog Number: 5693

Tomer Avidor-Reiss (Medical School) 5352

***Cell Biology 342. Cytoskeleton in Development and Cancer**

Catalog Number: 4059

Sheila Thomas (Medical School) 3777

***Cell Biology 343. Mechanisms of Mammalian Cell Differentiation and Gene Expression**

Catalog Number: 0202

Bruce M. Spiegelman (Medical School) 7733

***Cell Biology 344. Molecular Mechanism of Signal Transduction**

Catalog Number: 6093

Xi He (Medical School) 2004

***Cell Biology 345. Protein Transport Across the Endoplasmic Reticulum Membrane**

Catalog Number: 6793

Tom Rapoport (Medical School) 1815

***Cell Biology 346. Molecular Basis of Human Disease**

Catalog Number: 1591

Andrius Kazlauskas (Medical School) 2088

***Cell Biology 347. Cellular and Molecular Aspects of Insulin Action**

Catalog Number: 1494

C. Ronald Kahn (Medical School) 2019



***Cell Biology 349. Gene Silencing and Chromosome Structure**

Catalog Number: 8765

Danesh Moazed (Medical School) 4254

***Cell Biology 351. Cardiovascular Stem Cells in Development and Disease**

Catalog Number: 7604

Kenneth R. Chien 5667

***Cell Biology 354. Basic and Applied Mechanisms of Intracellular Transport**

Catalog Number: 7605

Victor Wee Hsu (Medical School) 2606

***Cell Biology 356. Cell Growth Regulation, Telomere Maintenance, Cancer and Alzheimer's Disease**

Catalog Number: 3718

Kun Ping Lu (Medical School) 2607

***Cell Biology 358. Mechanisms of Tumor Metastasis**

Catalog Number: 0606

Bruce R. Zetter (Medical School) 7737

***Cell Biology 359. Intracellular Signaling Pathways in the Regulation of Cell Growth and Differentiation**

Catalog Number: 0335

David A. Frank (Medical School) 3276

***Cell Biology 360. Genetic Control of Apoptosis in Drosophila**

Catalog Number: 6046

Kristin White (Medical School) 3955

***Cell Biology 361. Matrix Biology, Cell-Matrix Interactions in Health and Disease**

Catalog Number: 5561

Raghu Kalluri (Medical School) 4945

***Cell Biology 362. Molecular Basis of Pulmonary Hypertension, Hypoxia, Inflammation, and Stem Cell Biology**

Catalog Number: 4662

Stella Kourembanas (Medical School) 4958

***Cell Biology 364. The Structure of the Nucleus and the Dynamics of Nuclear Transport**

Catalog Number: 3582

Frank D. McKeon (Medical School) 1990

***Cell Biology 369. Genetics, Epigenetics, Molecular Biology, Chromatin**

Catalog Number: 1452

Andrew J. Chess (Medical School) 5662



***Cell Biology 370. Mitotic Kinases, Chromatin and Chromosome Segregation**

Catalog Number: 0661

Jonathan M. G. Higgins (Medical School) 5543

***Cell Biology 371. Nutrient Sensing and Metabolic Control**

Catalog Number: 5804

Pere B. Puigserver (Medical School) 5735

***Cell Biology 372. Cytoskeletal Dynamics**

Catalog Number: 5032

Timothy J. Mitchison (Medical School) 3713

***Cell Biology 373. Molecular Genetics of Cell Interaction in Development**

Catalog Number: 8133

Spyros Artavanis-Tsakonas (Medical School) 2609

***Cell Biology 375. Cancer Genetics and DNA - (New Course)**

Catalog Number: 26444

David Marc Weinstock 6929

***Cell Biology 376. Chemical Approaches to Cell Division and Cancer**

Catalog Number: 7680

Randy King (Medical School) 3941

***Cell Biology 377. Stem Cells, Islet Cell Function, Growth and Development**

Catalog Number: 7966

Rohit N. Kulkarni (Medical School) 5152

***Cell Biology 378. Bacterial Toxin Entry and Immunoglobulin Transport in Mucosal Epithelial Cells**

Catalog Number: 7656

Wayne I. Lencer (Medical School) 5153

***Cell Biology 379. BMP Signaling in Organogenesis**

Catalog Number: 2894

Vicki Rosen (Dental School) 4790

***Cell Biology 380. Cytoskeletal Mechanics of Blood Platelet Production**

Catalog Number: 9706

Joseph E. Italiano (Medical School) 5392

***Cell Biology 381. Molecular Mechanism of Microtubule-based Motility**

Catalog Number: 8578

Samara Louise Reck-Peterson (Medical School) 6165



***Cell Biology 383. Molecular Biology of Instinctive Animal Behavior**

Catalog Number: 8119

Stephen Daniel Liberles (Medical School) 6159

***Cell Biology 399. Nanocourses**

Catalog Number: 0087

David Lopes Cardozo (Medical School) 5995 and Spyros Artavanis-Tsakonas (Medical School) 2609

Quarter Courses for Graduate Students Only

***Cell Biology 300qc. Advanced Topics in Cell, Molecular, and Developmental Biology - (New Course)**

Catalog Number: 17665

David Lopes Cardozo (Medical School) 5995

A series of reading and discussion seminars, each running for a half term (7 weeks).

Note: Non-DMS students must get permission from the Division of Medical Sciences before registering for this course. Please contact us at 617-432-0162 or visit the DMS Office at T-MEC 435, 260 Longwood Avenue, Boston.

***Cell Biology 301qc. The Epidemiology and Molecular Pathology of Cancer - (New Course)**

Catalog Number: 24657 Enrollment: Limited to 10.

Massimo Loda 6857 and Lorelei Ann Mucci 6858

Quarter course (fall term; repeated spring term). M. through Su., 9–5.

In-depth introduction to the epidemiology and molecular pathology of cancer. Will explore multiple types of cancer: breast, colon, lung, prostate and brain, through a series of lectures and hands-on practice tutorials January 4 - 12, 2010.

Note: Go to [http://www.med.harvard.edu/dms/Current/DMS Quarter Courses.html](http://www.med.harvard.edu/dms/Current/DMS%20Quarter%20Courses.html) for more details.

***Cell Biology 302qc. Experimental Design for Biologists - (New Course)**

Catalog Number: 91286 Enrollment: Limited to 24.

Randy King (Medical School) 3941

Quarter course (spring term). M., 4:30–6:30.

Theory and practice of experimental design, asking when, how, and whether hypotheses or questions should be used to frame experiments, and how these frameworks may perturb experimental design and interpretation.

Note: More details can be found by going to the Division of Medical Sciences website, then clicking Current Students and selecting Quarter Courses.

[*Cell Biology 303qc. Hormonally Active Pollutants and Human Disease] - (New Course)

Catalog Number: 39764

Joan V. Ruderman (Medical School) 2622

Quarter course (spring term). Th., at 4:30.

Examine key experiments that led to the concept of Environmental Endocrine Disruptors, look at current work in this emerging area, emphasis on molecular mechanisms, consider how this work



impacts on the development of regulatory policy.

Note: Expected to be given in 2011–12. Go to <http://www.med.harvard.edu/dms/Current/DMSQuarterCourses.html> for more details.

Developmental and Regenerative Biology

Graduate Course

***Developmental & Regenerative Biology 310. Blood Stem Cell Development and Regeneration**

Catalog Number: 35575

Trista Elizabeth North 6515

***Developmental & Regenerative Biology 311. Cardiovascular Stem Cell Biology**

Catalog Number: 50682

Caroline Erter Burns 6516

***Developmental & Regenerative Biology 312. Epigenetic Modifications and Cellular Identity**

Catalog Number: 65789

Alexander Meissner 6702

***Developmental & Regenerative Biology 313. Liver Development, Regeneration and Carcinogenesis**

Catalog Number: 14267

Wolfram Goessling 6563

***Developmental & Regenerative Biology 314. Molecular and Developmental Neurobiology**

Catalog Number: 80896

Paola Arlotta 6703

***Developmental & Regenerative Biology 315. Molecular Genetics of Organ Development**

Catalog Number: 29374

Susan Mango 6386

***Developmental & Regenerative Biology 316. Stem Cells and Organ Size Control**

Catalog Number: 96003

Fernando D. Camargo 6401

***Developmental & Regenerative Biology 317. Stem cells, Cancer, and Hematological Disorders**

Catalog Number: 44481

Catherine T. Yan 6517

***Developmental & Regenerative Biology 319. Adult mammalian regeneration - (*New Course*)**



Catalog Number: 45223
Qiao Zhou 6578

***Developmental & Regenerative Biology 320. Lung Regeneration and Lung Disease - (New Course)**

Catalog Number: 42137
Jayaraj Rajagopal 6762

***Developmental & Regenerative Biology 330 (formerly *Cell Biology 330). Experimental Approaches to Developmental Biology**

Catalog Number: 6590 Enrollment: Limited to 16.

Amy J. Wagers 5212, David L. Van Vactor (Medical School) 2089, and members of the Department

Half course (fall term; repeated spring term). M., through Sa., 9-9 p.m. over two week period in January.

Provides a rapid survey of major topics and themes in developmental biology in parallel with hands-on exposure to a variety of experimental approaches, technologies and model systems (*Drosophila*, *C. elegans*, *Xenopus*, chick & mouse).

Note: Open to all first-year BBS students; permission of the instructor required for all others.

Quarter Course for Graduate Students Only

***Developmental & Regenerative Biology 301qc. Invertebrate Developmental Biology - (New Course)**

Catalog Number: 32645

Norbert Perrimon (Medical School) 1679, Spyros Artavanis-Tsakonas (Medical School) 2609, Susan Mango 6386, Elizabeth A. Perkins (Medical School) 1604, Gary B. Ruvkun (Medical School) 1366, and David L. Van Vactor (Medical School) 2089

Quarter course (fall term; repeated spring term). Th., 3-5.

Explore application of genetic tools in model systems for the analysis of developmental events. Focus on developmental genetics of *Drosophila*, *C. elegans*, and mouse to provide a background in methods of in vivo genetic analysis.

Note: Course will meet Thursdays, February 3, 10, 17, 24, March 3, 10, 31, April 7, and 14.

More details can be found by going to the Division of Medical Sciences website, then clicking current students and selecting curriculum.

Genetics

Primarily for Graduates

[Genetics 201. Principles of Genetics](#)

Catalog Number: 4225

Fred Winston (Medical School), Monica P. Colaiacovo (Medical School), Ann Hochschild (Medical School), and Mitzi I. Kuroda (Medical School)

Half course (fall term). M., W., F., 9-10:30.

An in-depth survey of genetics, beginning with basic principles and extending to modern



approaches and special topics. We will draw on examples from various systems, including yeast, *Drosophila*, *C. elegans*, mouse, human and bacteria.

Note: Intended for first-year graduate students. Offered jointly with the Medical School as GN 701.0.

Genetics 202. Principles of Genetic Analysis in Humans

Catalog Number: 8064 Enrollment: Limited to 30.

Raju Kucheralapati (Medical School) and members of the Department

Half course (spring term). Tu., Th., 10:30-12.

Comprehensive examination of the principles of human inheritance, in the context of both normal human variation and disease. Topics include human genome structure, sequence variation, population genetics, complex traits, association studies, and pharmacogenetics.

Prerequisite: Genetics 201 (or permission of the instructor) and basic knowledge of probability and statistics. Familiarity with bioinformatics and computational tools will be useful, but tutorial assistance will be provided where necessary.

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.

Covers both biochemical and genetic studies in regulatory mechanisms. Small number of topics discussed in depth, using the primary literature. Topics range from prokaryotic transcription to eukaryotic development.

Note: Offered jointly with the Medical School as GN 703.0.

Prerequisite: BCMP 200 and Genetics 201.

Genetics 219. Inheritance

Catalog Number: 14189

Chao-Ting Wu (Medical School), Kami Ahmad (Medical School), Steven A. McCarroll, and David Emil Reich (Medical School)

Half course (fall term). Tu., 10-1.

Lectures will focus on patterns of inheritance, including those that were once considered extraordinary but are now recognized as paradigms spanning fungi to humans. Expectations: questions, ideas, conversation during class. No tests, problem sets, papers.

Prerequisite: Primarily for first-year graduate students, but is open to medical students and advanced undergraduates. A basic understanding of genetics recommended.

Genetics 220. Molecular Biology and Genetics in Modern Medicine

Catalog Number: 4660

Anne Giersch (Medical School)

Half course (fall term). F., 9:30-12:30, Tu., 2-5.

Scientific, clinical, and ethical aspects of modern human genetics and molecular biology as applied to medicine. Covers genetic approaches and molecular underpinnings of inherited diseases and somatic/genetic diseases are integrated with patient presentations, discussions.

Note: Offered jointly with the Medical School as HT 160.



Genetics 228. Genetics in Medicine - From Bench to Bedside

Catalog Number: 9840 Enrollment: Limited to 15.

Susan A. Slaugenhaupt (Medical School) and Christopher Holmes Newton-Cheh
Half course (spring term). F., 2–5.

Focus on translational medicine: the application of basic genetic discoveries to human disease. Will discuss specific genetic disorders and the approaches currently used to speed the transfer of knowledge from the laboratory to the clinic.

Note: Course will include clinical presentations and lectures by investigators known for their work in a specific disease area. Course will be held at MGH (transportation provided to MGH).

Offered jointly with the Medical School as GN 711.0. For more information visit:

www.mgh.harvard.edu/bbs.

Prerequisite: Genetics 201 or equivalent.

***Genetics 229. Computational Statistics for Biomedical Sciences - (New Course)**

Catalog Number: 55994

Peter J. Park (Medical School)
Half course (fall term). Th., 1–4.

Practical introduction to analysis of biological and biomedical data. Basic statistical techniques covered, including descriptive statistics, elements of probability, hypothesis testing, nonparametric methods, correlation analysis, and linear regression. Emphasis on choosing appropriate statistical tests.

Note: Offered jointly with Medical School as BMI713.0.

Graduate Courses of Reading and Research

***Genetics 300. Advanced Topics in Genetics**

Catalog Number: 1037

David Lopes Cardozo (Medical School) 5995

A series of reading and discussion seminars, each running for a half term (seven weeks).

Different topics are covered each term.

Note: Two seminars, which can be taken in different terms, are required for credit. Non-DMS students must get permission from the Division of Medical Sciences before registering for this course. Please contact us at 432-0162 or visit the DMS Office at T-MEC 435, 260 Longwood Avenue, Boston.

***Genetics 303. Molecular Biology of Pathogenesis**

Catalog Number: 1972

Frederick Ausubel (Medical School) 4639

***Genetics 304. Molecular Genetics Basis of Human Disease, Particularly Cardiovascular Pathogenesis**

Catalog Number: 0693

Christine E. Seidman (Medical School) 3013



***Genetics 305. Centrosomes, Cilia, Cysts and Diseases**

Catalog Number: 9027
Jing Zhou (Medical School) 3779

***Genetics 306. Inherited Human Disorders**

Catalog Number: 7324
Jonathan G. Seidman (Medical School) 7529

***Genetics 308. Molecular Biology of Signal Transduction**

Catalog Number: 5616
Brian Seed (Medical School) 7619

***Genetics 309. Gene Expression in Yeast**

Catalog Number: 3763
Fred Winston (Medical School) 7877

***Genetics 310. Molecular Genetics of Neural Development and Gene Therapy to Prevent Blindness**

Catalog Number: 6324
Constance L. Cepko (Medical School) 1150

***Genetics 311. Molecular Mechanisms of Transcription Regulation in Mammals**

Catalog Number: 7310
Robert E. Kingston (Medical School) 1153

***Genetics 312. Molecular Genetics of Development**

Catalog Number: 8363
Gary B. Ruvkun (Medical School) 1366

***Genetics 313. Genomic Approaches to Human Disease Genetics**

Catalog Number: 6059
David M. Altshuler (Medical School) 4307

***Genetics 314. Structure and Activities of Ribozymes**

Catalog Number: 7244
Jack Szostak (Medical School) 7096

***Genetics 315. Molecular Genetics of Inherited Disorders**

Catalog Number: 3362
James Gusella (Medical School) 1152

***Genetics 316. Transcriptional Regulatory Network Analyses**

Catalog Number: 2247
Martha L. Bulyk (Medical School) 4259



***Genetics 317. Signaling Networks in Development and Disease**

Catalog Number: 2271

Jordan A. Kreidberg (Medical School) 2080

***Genetics 318. Genome Structure**

Catalog Number: 5012

George M. Church (Medical School) 1608

***Genetics 319. Mouse Models of Human Disorders**

Catalog Number: 0860

David R. Beier (Medical School) 3519

***Genetics 320. Genetics of Common Human Disease**

Catalog Number: 39071

Mark Joseph Daly 6519

***Genetics 321. Genetic Analysis of Growth and Homeostasis**

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. Genetic Basis of Human Complex Diseases**

Catalog Number: 54178

Paul I Wen de Bakker 6404

***Genetics 325. Human Genetics, Genomics and Complex Traits**

Catalog Number: 8275

Joel N. Hirschhorn (Medical School) 4321

***Genetics 326. Human, Molecular and Mouse Genetics**

Catalog Number: 2900

David J. Kwiatkowski (Medical School) 3770

***Genetics 327. Systems Biology of Mammalian Cell Fate Decisions**

Catalog Number: 69285

Suzanne Gaudet (Medical School) 6183



***Genetics 328. Lymphocyte Differentiation, Recombination, DNA Repair, Cancer**

Catalog Number: 2702

Frederick W. Alt (Medical School) 3146

***Genetics 329. Genetic Analysis of Synaptic Transmission**

Catalog Number: 9734

Joshua M. Kaplan (Medical School) 3522

***Genetics 330. Critical Thinking and Research Proposal Writing**

Catalog Number: 0210 Enrollment: Limited to 20.

Monica P. Colaiacovo (Medical School) 4949 and members of the Department

Half course (spring term). Hours to be arranged.

A small group tutorial systematically guiding students in the writing of original, hypothesis-driven research proposals from initial topic selection through completion of a final draft.

Note: Open to all BBS students; others need permission of the instructor.

Prerequisite: Core course in genetics, cell biology, molecular biology, or biochemistry.

***Genetics 331. Developmental Oncobiology and Cancer Stem Cells**

Catalog Number: 17763

Zhe Li 6408

***Genetics 332. Combining Genetic and Biochemical Approaches to Dissect Tumor Suppressor Gene Function**

Catalog Number: 2975

Karen M. Cichowski (Medical School) 3932

***Genetics 334. Genomics and the Genetics of Human Disease**

Catalog Number: 5144

Raju Kucherlapati (Medical School) 4324

***Genetics 335. Epigenetics, Genetics, Gene Regulation, Ultraconserved Elements**

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 341. Development and Homeostasis of the Skeleton**

Catalog Number: 8874

Matthew L. Warman (Medical School) 5875



***Genetics 342. Genetic Analysis of Zebrafish Kidney Organogenesis**

Catalog Number: 4498

Iain A. Drummond (Medical School) 5350

***Genetics 344. Computational Genomics**

Catalog Number: 2125

Peter J. Park (Medical School) 5917

***Genetics 349. Studying Human Diseases Through Structural Genomic Variation - (New Course)**

Catalog Number: 36727

Charles Lee 6725

***Genetics 350. Genetic Regulation of Organogenesis and Organ Regeneration**

Catalog Number: 4974

Richard L. Maas (Medical School) 3703

***Genetics 351. Drosophila, a Model Genetic System to Study Signal Transduction**

Catalog Number: 4998

Lizabeth A. Perkins (Medical School) 1604

***Genetics 352. Cardiovascular Development and Disease, Muscle Biology - (New Course)**

Catalog Number: 58035

Instructor to be determined

***Genetics 353. Genetics of Human Disease**

Catalog Number: 6608

Susan A. Slaughaupt (Medical School) 5483

***Genetics 354. Integrative Genomics of Cancer and Development**

Catalog Number: 53387

Isaac S. Kohane (Medical School) 4531

***Genetics 355. Molecular Genetics of Human Neuromuscular Diseases**

Catalog Number: 9253

Alan H. Beggs (Medical School) 1422

***Genetics 357. Lung Stem Cell Biology and Cancer**

Catalog Number: 9494

Carla Kim (Medical School) 5742

***Genetics 358. Developmental Neurobiology and Genetics**

Catalog Number: 8297

Susan M. Dymecki (Medical School) 1736



***Genetics 359. Cancer and Development, Thrombopoiesis, Intestinal Development**

Catalog Number: 9880

Ramesh Arjun Shivdasani (Medical School) 4538

***Genetics 360. Microtubule Associated RNAs During Mitosis**

Catalog Number: 5677

Michael Demian Blower (Medical School) 5733

***Genetics 361. Mechanism of X-inactivation in Mammals**

Catalog Number: 9152

Jeannie T. Lee (Medical School) 2129

***Genetics 362. Molecular Biology and Genetics of Cancer**

Catalog Number: 9382

David Morse Livingston (Medical School) 4872

***Genetics 364. Development Application of Mammalian Vectors**

Catalog Number: 7930

Richard C. Mulligan (Medical School) 2274

***Genetics 366. Molecular Genetic Approaches to Human Disease Mechanisms**

Catalog Number: 8153

Marcy E. MacDonald (Medical School) 2635

***Genetics 367. Mechanisms Governing Normal and Neoplastic Growth**

Catalog Number: 2500

Ronald A. DePinho (Medical School) 2637

***Genetics 369. Molecular Mechanisms of Plant Signal Transduction**

Catalog Number: 3010

Jen Sheen (Medical School) 3892

***Genetics 370. Molecular Basis of Breast Cancer Initiation and Progression**

Catalog Number: 4519

Kornelia Polyak (Medical School) 3898

***Genetics 371. Functional Genomics and Proteomics**

Catalog Number: 2190

Marc Vidal (Medical School) 3914

***Genetics 373. Kidney Disease, Genetics, Cytoskeleton**

Catalog Number: 3875

Martin R. Pollak (Medical School) 4329



***Genetics 374. Mechanisms underlying accurate meiotic chromosome segregation**

Catalog Number: 4419

Monica P. Colaiacovo (Medical School) 4949

***Genetics 375. Genomics of Leukemia**

Catalog Number: 2335

Scott A. Armstrong (Medical School) 4947

***Genetics 376. Cell Cycle Control and Genomic Integrity**

Catalog Number: 3788

Stephen J. Elledge (Medical School) 4954

***Genetics 377. Molecular Genetics of Chromosome Organization and Gene Expression**

Catalog Number: 0811

Mitzi I. Kuroda (Medical School) 4959

***Genetics 379. Applying Population Genetics to Find Disease Genes**

Catalog Number: 1677

David Emil Reich (Medical School) 4965

***Genetics 380. Molecular Approaches to Metabolism and Energy Balance**

Catalog Number: 4688

Evan David Rosen (Medical School) 4966

***Genetics 382. Muscle Stem Cell Commitment and Differentiation**

Catalog Number: 2626

Emanuela Gussoni (Medical School) 5155

***Genetics 384. Cardiogenesis and Cardiac Morphogenesis**

Catalog Number: 7079

William T. Pu (Medical School) 5396

***Genetics 386. Models of Cardiac Development and Disease**

Catalog Number: 1127

John David Mably (Medical School) 6160

***Genetics 387. Stem Cells and Developmental Biology**

Catalog Number: 4080

Chad A. Cowan 6099

***Genetics 388. Cell Shape - (New Course)**

Catalog Number: 63445

Instructor to be determined

***Genetics 390. Experimental Approaches in Genetic Analysis**

Catalog Number: 8039 Enrollment: Limited to 8.



*Fred Winston (Medical School) 7877 and members of the Department
Half course (fall term; repeated spring term). M. through Sa., 8:30–7 p.m.*

A survey of major themes in genetics combined with exposure to various experimental techniques, technologies, and model systems. Combines lectures and hands-on laboratory activities emphasizing experimental methods, hypothesis generation and testing, and data analysis.

Note: Limited to 8 students. Priority will be given to first year graduate students. Students must first contact the faculty for enrollment approval prior to registration for the course. Meeting

Dates/Times: Approximately 8:30 am-7:00 pm each day for 14 days in January.

Prerequisite: Students must also enroll in, or have taken Genetics 201.

***Genetics 391. Human Genome Structural and Regulatory Variation - (New Course)**

Catalog Number: 51043

Steven A. McCarroll 6557

Quarter Courses for Graduate Students Only

***Genetics 300qc. Advanced Topics in Genetics - (New Course)**

Catalog Number: 84294

David Lopes Cardozo (Medical School) 5995

A series of reading and discussion seminars, each running for a half term (7 weeks).

Note: Non-DMS students must get permission from the Division of Medical Sciences before registering for this course. Please contact us at 617-432-0162 or visit the DMS Office at T-MEC 435, 260 Longwood Avenue, Boston.

***Genetics 302qc. Teaching 101: Bringing Effective Teaching Practices to your Classroom - (New Course)**

Catalog Number: 91159 Enrollment: Limited to 15.

Fred Winston (Medical School) 7877

Quarter course (spring term). F., 12:30–3.

Survey basics of effective teaching practices, focusing on practical application and real-life examples. Topics include effective lecturing techniques, using goals and learning styles to inform lesson planning and design, assessing student understanding, and facilitating discussions.

Note: Meeting dates March 25, April 1, 8, 15, 22, 29, and May 6.

***Genetics 303qc. Understanding Common Complex Human Traits and Disease Through Genome-Wide Association Studies - (New Course)**

Catalog Number: 99274 Enrollment: Limited to 10.

Daniel Ian Chasman 6895 and Darlene Ann Dartt 6904

Quarter course (spring term). Tu., Th., 2:30–4.

Introduction to the genetic basis of common human complex traits and disease as explored by genome-wide association studies in populations. Focus on concepts, techniques, and translational implications as illustrated by the recent literature.

Human Biology and Translational Medicine



Human Biology and Translational Medicine (HBTM) focuses on providing rigorous multidisciplinary training in the fundamental mechanisms and essential methodologies of human biology and disease-oriented research, and in the translation of these discoveries into advances in the diagnosis, prevention, and treatment of human disease.

Graduate Courses of Reading and Research

***Human Biology and Translational Medicine 302. Molecular Cellular Pathophysiology of Ion Transport**

Catalog Number: 3462

Seth L. Alper (Medical School) 1275

***Human Biology and Translational Medicine 304. Resolution of Lung Inflammation and Injury**

Catalog Number: 1421

Bruce D. Levy (Medical School) 5922

***Human Biology and Translational Medicine 305. Endothelial Cell, Nitric Oxide, Proteomic Redox Regulation**

Catalog Number: 9077

Joseph Loscalzo (Medical School) 5923

***Human Biology and Translational Medicine 307. Signal Transduction in Heart Failure and Atherosclerosis**

Catalog Number: 1294

Anthony Rosenzweig (Medical School) 5925

***Human Biology and Translational Medicine 310. Bioimaging, Nanomaterials and Systems Biology**

Catalog Number: 4536

Ralph Weissleder (Medical School) 5927

***Human Biology and Translational Medicine 311. Kidney Injury and Repair**

Catalog Number: 2495

Joseph Vincent Bonventre (Medical School) 5957

***Human Biology and Translational Medicine 314. Skin Immunology T Cell Trafficking Lymphoma**

Catalog Number: 2368

Thomas Seth Kupper (Medical School) 5960

***Human Biology and Translational Medicine 315. Hypothalamic Gene Function and Regulation**

Catalog Number: 1577

Joseph A. Majzoub (Medical School) 1875



***Human Biology and Translational Medicine 317. Adhesion, Integrins, Hematopoiesis, Kidney Genetics**

Catalog Number: 5746

M. Amin Arnaout (Medical School) 1822

***Human Biology and Translational Medicine 318. Steroid Hormone Receptors and Prostate Cancer**

Catalog Number: 7992

Steven Paul Balk (Medical School) 6166

***Human Biology and Translational Medicine 319. Molecular Regulation of Granulocyte Differentiation**

Catalog Number: 4496

Nancy Berliner (Medical School) 6167

***Human Biology and Translational Medicine 320. Endothelial Progenitors in Health Disease**

Catalog Number: 8324

Joyce E. Bischoff (Medical School) 1448

***Human Biology and Translational Medicine 322. Cardiac Repair and Regeneration**

Catalog Number: 4398

Ronglih Liao (Medical School) 6169

***Human Biology and Translational Medicine 323. Cardiovascular Biology in Human and Zebrafish**

Catalog Number: 5160

Calum Archibald MacRae (Medical School) 6170

***Human Biology and Translational Medicine 324. Principles/Practices of Developing Human Antibody Therapies**

Catalog Number: 3910

Wayne A. Marasco (Medical School) 6171

***Human Biology and Translational Medicine 325. Genetics of Blood Development**

Catalog Number: 7279

Barry Htin Paw (Medical School) 6172

***Human Biology and Translational Medicine 326. Human Genetics of Neuroinflammatory and Neurodegenerative Disorders**

Catalog Number: 1515

Philip Lawrence De Jager (Medical School) 6233

***Human Biology and Translational Medicine 327. Translational Research on Kinase Inhibitors**



Catalog Number: 0138
Pasi Antero Janne (Medical School) 6234

***Human Biology and Translational Medicine 328. Translational Immunology In Immunocompromised Hosts**

Catalog Number: 8917
Ofer Levy (Medical School) 6236

***Human Biology and Translational Medicine 329. Developing Targeted Therapies for Cancer**

Catalog Number: 6232
Jeffrey Adam Engelman (Medical School) 6225

***Human Biology and Translational Medicine 330. Developmental Biology/Genetics (Congenital Anomalies, Cancer)**

Catalog Number: 8982
Patricia K. Donahoe (Medical School) 3252

***Human Biology and Translational Medicine 331. Tumor Microenvironment, Angiogenesis and Metastasis: from Bench-to-Bedside-to-Biomarkers**

Catalog Number: 8347
Rakesh K. Jain (Medical School) 2079

***Human Biology and Translational Medicine 340. (LHB). Disease-Centered Tutorial Clinics**

Catalog Number: 8640 Enrollment: Limited to LHB students only.
Jordan A. Kreidberg (Medical School) 2080

***Human Biology and Translational Medicine 341. Gene Regulation of Metabolism in Cardiovascular Health and Disease**

Catalog Number: 99499
Zoltan Pierre Arany 6409

***Human Biology and Translational Medicine 342. Research in Hematology and Oncology**

Catalog Number: 47977
Benjamin L. Ebert 6410

***Human Biology and Translational Medicine 343. Complex Trait Genetics of Blood Pressure and QT Interval Variation**

Catalog Number: 63084
Christopher Holmes Newton-Cheh 6270

***Human Biology and Translational Medicine 344. Biology of Hematopoietic Stem Cells**

Catalog Number: 11562
David Allen Williams 6460



***Human Biology and Translational Medicine 345. Tuberous Sclerosis and LAM: Pathogenic Mechanisms - (New Course)**

Catalog Number: 91208

Elizabeth Petri Henske 6579

***Human Biology and Translational Medicine 346. Bioimaging and Optical Spectroscopy: Detection of Early Disease with Light - (New Course)**

Catalog Number: 79138

Lev T. Perelman 6601

***Human Biology and Translational Medicine 347. Effects of Diabetes, Exercise, and Skeletal Muscle Metabolism - (New Course)**

Catalog Number: 73142

Instructor to be determined

Quarter Courses for Graduate Students Only

***Human Biology and Translational Medicine 300qc. Advanced Topics in Human Biology and Translational Medicine - (New Course)**

Catalog Number: 32772

David Lopes Cardozo (Medical School) 5995

A series of reading and discussion seminars, each running for a half term (7 weeks).

Note: Non-DMS students must get permission from the Division of Medical Sciences before registering for this course. Please contact us at 617-432-0162 or visit the DMS Office at T-MEC 435, 260 Longwood Avenue, Boston.

***Human Biology and Translational Medicine 301qc. Case Studies in Human Biology and Translational Medicine - (New Course)**

Catalog Number: 95905 Enrollment: Will be limited.

Jeffrey Mark Drazen 6866

Three-week course that is required of and restricted to first-year LHB students. Each week of the course focuses on a different "case study" in translational medicine.

Immunology

All courses in Immunology are subject to limitation in enrollment and will not be offered unless there is sufficient demand.

Primarily for Graduates

[*Immunology 201. Principles of Immunology](#)

Catalog Number: 8337 Enrollment: Limited to 50.

Michael C. Carroll (Medical School), Ulrich H. Von Andrian-Werburg (Medical School) and members of the Department

Half course (fall term). Tu., Th., 1:30-3, with section Tu., Th., 3-4.



Comprehensive core course in immunology. Topics include a broad but intensive examination of the cells and molecules of the immune system. Special attention given to the experimental approaches that led to general principles of immunology.

Note: Intended for students who have had prior exposure to immunology on the undergraduate level. In the absence of such exposure, students *must* obtain the permission of the Course Director. Offered jointly with the Medical School as IM 702.0.

Prerequisite: A background in genetics and biochemistry strongly recommended.

Immunology 202. Advanced Principles of Immunology

Catalog Number: 5674

D. Branch Moody (Medical School) and Martin E. Hemler (Medical School)

Half course (spring term). Tu., Th., 1:30–4.

Continuation of Immunology 201 as an intensive core course in fundamentals of the immune system. Emphasis on systems of immunity. Critical reading of primary literature.

Note: Offered jointly with the Medical School as IM 712.0.

Prerequisite: Immunology 201 or its equivalent.

Immunology 204. Critical Readings for Immunology

Catalog Number: 9563

Shannon Turley (Medical School) and Carl D. Novina (Medical School)

Half course (spring term). Th., 10–1.

Original research articles from fields including immunology, biochemistry, genetics, and cell and developmental biology will be critically analyzed in an intensive small group format. Grading will be based on class participation and oral presentations.

Note: Required for first-year immunology students, open to second-year immunology students. No auditors. Offered jointly with the Medical School as IM 703.0.

[*Immunology 219. The Primary Immunodeficiencies]

Catalog Number: 1873

Cox Terhorst (Medical School), Anthony Joseph Bonilla, Raif S. Geha (Medical School), and Luigi D. Notarangelo (Medical School)

Half course (spring term). Hours to be arranged.

This course discusses the mechanisms that underlie the pathogenesis of genetically determined primary immunodeficiencies and selected autoimmune diseases. Evaluates the use of animal models for study and therapy of human disease states.

Note: Expected to be given in 2011–12. 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 dissertation problem, carried out under the supervision of the following faculty members whose special research interests are listed.

***Immunology 300. Advanced Topics in Immunology**

Catalog Number: 4739

David Lopes Cardozo (Medical School) 5995



Reading and discussion seminars each running for a half term (7 weeks). Two seminars, which can be taken in different terms, are required for credit. Topics include the role of intracellular and transmembrane protein phosphates in signal transduction.

Note: Intended for first- and second-year Immunology graduate students. Non-DMS students must get permission from the Division of Medical Sciences before registering for this course. Call 617-432-0162 or visit the DMS Office at T-MEC 435, 260 Longwood Avenue, Boston.

***Immunology 301. Immunology Seminar**

Catalog Number: 4971 Enrollment: Limited to 20.

Michael C. Carroll (Medical School) 2050

Gives students exposure to research topics in Immunology. Students prepare for the weekly seminar through readings and occasional discussion with the seminar speakers. These discussions are facilitated by members of the Committee on Immunology.

Note: Intended for first- and second-year Immunology graduate students.

***Immunology 302. Molecular Basis of Humoral Immunologic Inflammation**

Catalog Number: 1355

K. Frank Austen 6887

***Immunology 303. Immunity to Tuberculosis**

Catalog Number: 9490

Samuel M. Behar (Medical School) 4570

***Immunology 309. Molecular Aspects of Lymphocyte Interactions**

Catalog Number: 3778

Cox Terhorst (Medical School) 6280

***Immunology 312. Interplay Between the Innate Immune System and Gut Microbial Communities - (New Course)**

Catalog Number: 11923

Wendy S. Garrett (Public Health) 6613

***Immunology 313. Human genetics to understand immune dysregulation - (New Course)**

Catalog Number: 75437

Robert M. Plenge 6582

***Immunology 314. Rheumatic Diseases**

Catalog Number: 8065

Peter H. Schur (Medical School) 4551

***Immunology 315. Immunoregulation**

Catalog Number: 5540

Martin E. Dorf (Medical School) 4541

***Immunology 316. Development and Function of T Cells, Their Subsets and Distinctive Markers**



Catalog Number: 3192
Harvey Cantor (Medical School) 4460

***Immunology 317. Molecular Biology of Receptor Transduction in the Immune System**
Catalog Number: 0518
Brian Seed (Medical School) 7619

***Immunology 319. Molecular Basis of Cell Adhesion and Migration**
Catalog Number: 0293
Timothy A. Springer (Medical School) 6145

***Immunology 322. Systems Approaches to Innate and Adaptive Immunity; Functional Genomics of Complex Disease Genetics - (New Course)**
Catalog Number: 12714
Ramnik Xavier 6878

***Immunology 323. Research in Molecular Immunology**
Catalog Number: 3425
Laurie H. Glimcher (Public Health) 1362

***Immunology 324. T-cell Development in Animal Models of Autoimmunity Disease**
Catalog Number: 1905
Christophe O. Benoist (Medical School) 3928

***Immunology 325. Immune Cell Interactions Controlling T Cell Effector Function**
Catalog Number: 1078
Thorsten Roman Mempel (Medical School) 6173

***Immunology 326. Human T-cell Antigen Receptor; Human Lymphocyte Differentiation Antigens; TCR; Thymic Development; Protective Immunity; HIV-I**
Catalog Number: 6719
Ellis L. Reinherz (Medical School) 1408

***Immunology 327. Chemical Cell Biology**
Catalog Number: 0824
Stuart L. Schreiber 2166

***Immunology 328r. Introduction to Research**
Catalog Number: 5531
Michael C. Carroll (Medical School) 2050

***Immunology 329. Basic and Clinical Mechanisms of Autoimmunity**
Catalog Number: 0354
Howard L. Weiner (Medical School) 1335



***Immunology 330. Molecular Aspects of Mast Cells—Mediated Immune Responses**

Catalog Number: 7296

Richard L. Stevens (Medical School) 2892

***Immunology 331. Lymphoid Organs**

Catalog Number: 5725

Joan E. Stein-Streilein (Medical School) 4769

***Immunology 332. The Role of Cys-Lts in Antigen-Induced Pulmonary Inflammation and the Mechanism of Cys-LT-Mediated Pulmonary Fibrosis**

Catalog Number: 9530

Yoshihide Kanaoka (Medical School) 5401

***Immunology 333. Immunopathogenesis of Viral Diseases**

Catalog Number: 2430

Norman Letvin (Medical School) 2317

***Immunology 334. Understanding the Mechanisms of Pathogen-sensing by the Innate Immune System - (New Course)**

Catalog Number: 11337

Terry K. Means 6898

***Immunology 336. Innate - Adaptive Immunity and Autoimmunity**

Catalog Number: 7292

Michael B. Brenner (Medical School) 2864

***Immunology 337. Development of Mucosal Immunologic Functions**

Catalog Number: 1320

W. Allan Walker (Medical School, Public Health) 1175

***Immunology 338. Identification of Novel Molecular Circuits that Link Inflammation to Cancer - (New Course)**

Catalog Number: 77966

Dimitrios Iliopoulos 6899

***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 341. Transcriptional Regulation of Stem Cell and Myeloid Cell Genes in Order to Understand Normal Myeloid Differentiation and Leukemia**



Catalog Number: 9403
Daniel G. Tenen (Medical School) 1172

***Immunology 342. Immune Cell Signaling, Gene Transcription and Tissue Injury in Lupus.**

Catalog Number: 7829
George C. Tsokos (Medical School) 5911

***Immunology 343. The Regulation of Eicosanoid Generation**

Catalog Number: 8593
Jonathan P. Arm (Medical School) 4946

***Immunology 344. Genetic Analysis of Lymphocyte Development and Nuclear Oncogene Function**

Catalog Number: 6438
Frederick W. Alt (Medical School) 3146

***Immunology 345. Assembly and Function of pre-B Cell-fate and B Lymphocyte Antigen Receptors**

Catalog Number: 0866
Shiv S. Pillai (Medical School) 3393

***Immunology 346. The Role of Complement in the Immune Response**

Catalog Number: 1755
Michael C. Carroll (Medical School) 2050

***Immunology 348. Cell Biology, Biochemistry, and Immunology of Leukocyte-endothelial Adhesion**

Catalog Number: 0901
Francis W. Luscinskas (Medical School) 3772

***Immunology 350. Regulation of Autoimmune T Cell Responses**

Catalog Number: 1916
Vijay K. Kuchroo (Medical School) 2041

***Immunology 351. Investigating the Role of Lectin - Carbohydrate Interactions in T Cell Trafficking and Differentiation and in Tumor Immune Evasion**

Catalog Number: 1875
Charles J. Dimitroff (Medical School) 5521

***Immunology 352. Innate Immune Signaling Pathways of TLR and NLR Proteins**

Catalog Number: 1572
Koichi S. Kobayashi (Medical School) 5522



***Immunology 353. Innate and Adaptive Immune Responses in HIV-1 Infection**

Catalog Number: 6000

Marcus Altfeld (Medical School) 5689

***Immunology 354. Topics in Transplantation Biology**

Catalog Number: 1459

David H. Sachs (Medical School) 1075

***Immunology 356. Cytotoxic T Lymphocytes**

Catalog Number: 8232

Judy Lieberman (Medical School) 1542

***Immunology 357. T Cell-Epithelial Cell Interactions in Mucosal Community**

Catalog Number: 2111

Richard S. Blumberg (Medical School) 2351

***Immunology 358. Self-renewal and Lineage Commitment of Hematopoietic Stem Cells**

Catalog Number: 1619

Koichi Akashi (Medical School) 5288

***Immunology 359. Immunoregulatory Mechanisms Affecting the Development of Pulmonary Inflammation, Asthma, and Allergy in Mice and Humans**

Catalog Number: 3037

Dale T. Umetsu (Medical School) 5289

***Immunology 360. Hematopoietic Stem Cells and their Niche**

Catalog Number: 8952

David T. Scadden 2649

***Immunology 361. Induction and Regulation of Antigen-specific T Cell Responses**

Catalog Number: 7578

Gilles A. Benichou (Medical School) 2652

***Immunology 362. Chemokine and Lipid Chemoattractants in Normal Physiology and Disease**

Catalog Number: 3817

Andrew D. Luster (Medical School) 2654

***Immunology 363. Regulation of Mast Cell Activation by Stimulatory and Inhibitory Receptors**

Catalog Number: 6813

Howard R. Katz (Medical School) 2837

***Immunology 364. T-cell Differentiation, Tolerance and Autoimmunity**

Catalog Number: 0972

Diane J. Mathis (Medical School) 3063



***Immunology 366. Molecular Regulation of T Cell Cytokine Production and T Cell Interactions with the Blood Vessel Wall**

Catalog Number: 6676

Andrew H. Lichtman (Medical School) 3523

***Immunology 367. Biology and Chemistry of Complement Problems**

Catalog Number: 8080

Anne Nicholson-Weller (Medical School) 1063

***Immunology 368. RNA Granules**

Catalog Number: 8986

Paul J. Anderson (Medical School) 1947

***Immunology 369. Mechanisms of Autoimmune Disease**

Catalog Number: 6787

Vicki R. Kelley (Medical School) 2656

***Immunology 371. Cellular and Molecular Mechanisms of Eosinophil and Other Leukocyte Involvement in Allergic Flammation**

Catalog Number: 3716

Peter F. Weller (Medical School) 2657

***Immunology 373. Biology of Histocompatibility Systems in Man and Experimental Animals; Immunology of Aging**

Catalog Number: 6317

Edmond J. Yunis (Medical School) 6036

***Immunology 374. Tumor Necrosis Factor-Alpha Gene Regulation in the Immunopathogenesis of AIDS and TB**

Catalog Number: 4558

Anne E. Goldfeld (Medical School) 1008

***Immunology 375. Biology and Function of Immunoreceptors**

Catalog Number: 0510

Jean-Pierre Kinet (Medical School) 2663

***Immunology 376. Regulation of IgE Responses; Molecular Basis of Immunodeficiencies**

Catalog Number: 3618

Raif S. Geha (Medical School) 1795

***Immunology 378. Molecular mechanisms of T cell activation**

Catalog Number: 2916

Kai Wucherpfennig (Medical School) 2481



***Immunology 379. Induction of Immunological Tolerance by Gene Therapy**

Catalog Number: 9300

John J. Iacomini (Medical School) 2643

***Immunology 380. Control of Leukocyte Trafficking and the Immune Response By Chemokines and Other Cytokines**

Catalog Number: 4872

Barrett J. Rollins (Medical School) 3775

***Immunology 381. Lymphocyte Development, Immunoregulation, Auto-Immunity, Tumor Suppressor in RNA**

Catalog Number: 0839

Harald Von Boehmer (Medical School) 3302

***Immunology 382. AIDS Immunopathogenesis and Immune Reconstitution**

Catalog Number: 0468

Robert P. Johnson (Medical School) 6125

***Immunology 383. Translational Approaches In Transplantation and Tumor Immunity**

Catalog Number: 4590

Lee M. Nadler (Medical School) 3773

***Immunology 384. The Role of Cysteinyl Leukotrienes and Nucleotide Receptors in Control of Pulmonary Allergic Immunity**

Catalog Number: 1056

Joshua A. Boyce (Medical School) 6230

***Immunology 385. Regulation of T Lymphocyte Activation and Differentiation**

Catalog Number: 1243

I-Cheng Ho (Medical School) 2764

***Immunology 386. Molecular and Signaling Pathways Regulating Productive T-cell Responses and T-cell Energy/ Tolerance - (New Course)**

Catalog Number: 35936

Vassiliki A. Boussiotis 6879

***Immunology 387. Microbial Pattern Recognition and Signaling in Innate Immunity**

Catalog Number: 6065

Christine Kocks (Medical School) 5753

***Immunology 389. Development of Cancer Vaccines**

Catalog Number: 4106

Glenn Dranoff (Medical School) 1821



***Immunology 390. The Role of NK Cells in Tissues - (New Course)**

Catalog Number: 87458

Galit Alter 6760

***Immunology 391. Transcription Factors in Lymphocyte Commitment and Differentiation**

Catalog Number: 5285

Katia Georgopoulos (Medical School) 2070

***Immunology 392. Dendritic Cells and the Initiation of Immune Responses; Genetic Analysis using Genome-Wide Mammalian RNAi Libraries**

Catalog Number: 0298

Nir Hacohen (Medical School) 5157

***Immunology 393. The Role of the Transcription Factor NF- κ B in Regulating Innate Inflammatory Responses**

Catalog Number: 3287

Bruce H. Horwitz (Medical School) 5158

***Immunology 394. Cellular and Molecular Mechanisms by which CD1 Proteins Present Lipid Antigens to T Cells**

Catalog Number: 0938

D. Branch Moody (Medical School) 5159

***Immunology 395. NKT and Other Immune Cell Subsets in Anti-Tumor & Anti-Viral Immunity**

Catalog Number: 2491

Mark Adrian Exley (Medical School) 5749

***Immunology 396. The Fundamental Nature of and the Means to Produce T Cell Tolerance to Allo- and Auto-Antigens**

Catalog Number: 1812

Terry B. Strom (Medical School) 5160

***Immunology 397. Antigen Processing and Presentation by Dendritic Cells in Autoimmunity and Cancer**

Catalog Number: 3393

Shannon Turley (Medical School) 5255

***Immunology 398. The Role of Notch Signaling in Lymphoid Neoplasia**

Catalog Number: 9151

Jon Christopher Aster (Medical School) 5750

***Immunology 399. Innate and Adaptive Immunity in Transplantation**

Catalog Number: 3048

Yong-Guang Yang (Medical School) 6238



Quarter Courses for Graduate Students Only

***Immunology 300qc. Advanced Topics in Immunology - (New Course)**

Catalog Number: 99401

David Lopes Cardozo (Medical School) 5995

A series of reading and discussion seminars, each running for a half term (7 weeks).

Note: Non-DMS students must get permission from the Division of Medical Sciences before registering for this course. Please contact us at 617-432-0162 or visit the DMS Office at T-MEC 435, 260 Longwood Avenue, Boston.

***Immunology 301qc. Autoimmunity - (New Course)**

Catalog Number: 69978

Kai Wucherpennig (Medical School) 2481 and Vijay K. Kuchroo (Medical School) 2041

Quarter course (fall term). M., 4–6.

This course will focus on basic immunological mechanisms of autoimmune diseases, with an emphasis on recent advances in the field. At each session, we will focus on a particular topic and discuss three important publications.

Note: Go to [http://www.med.harvard.edu/dms/Current/DMS Quarter Courses.html](http://www.med.harvard.edu/dms/Current/DMS%20Quarter%20Courses.html) for more details.

***Immunology 302qc. Clinical Sessions - (New Course)**

Catalog Number: 40428

Robert M. Plenge 6582

Quarter course (spring term). Hours to be arranged.

Exposure to patients with immunologically mediated diseases. What is known about human immunologic diseases what critical questions remain unanswered. Formulate grant proposals that address critical questions for understanding or treatment of human immunologic disease.

***Immunology 303qc. The Warring Genomes: Innate Immunity and Host Defense - (New Course)**

Catalog Number: 55535

Jonathan C. Kagan (Medical School) 6235

Quarter course (spring term). M., 4–6.

Focus on basic cellular and molecular aspects of innate immunity, with an emphasis on recent advances in the field. Each class will cover a specific topic, and supporting literature will be provided by the instructor.

Prerequisite: Students are expected to have already taken IMM201.

Medical Sciences

Primarily for Graduates

Medical Sciences 215. Integrated Human Physiology

Catalog Number: 6359

Richard M. Schwartzstein (Medical School) and members of the Department

Half course (spring term). M. through F., 8:30-12, Tu., 1:30-3:30.



Describes the physiological mechanisms underlying the functions of major organ systems of the human body, including cardiovascular, renal, gastrointestinal, respiratory, endocrine and reproductive systems. The course emphasizes integration of physiological functions within a clinical context.

Note: Offered jointly with the Medical School as IN 752.0. Students taking the course for credit are expected to attend all course sessions. Permission of both the course director and the Medical School Registrar is required.

***Medical Sciences 250ab. Human Functional Anatomy**

Catalog Number: 6946 Enrollment: Limited to 52. Minimum 25.

Lee Gehrke (Medical School)

Full course (fall term). Lectures, M., W., F., 1:30-2:30; laboratory, M., W., F., 2:30-6.

Lectures, detailed laboratory dissections, and prosections provide a thorough exploration of the gross structure and function of the human body. Fundamental principles of embryology and bioengineering promote analytical approaches to understanding the body's design.

Note: Open to qualified graduate students with permission of the course director. Offered jointly with the Medical School as HT 010. The first meeting of this course is September 1, 2010.

Graduate Courses of Reading and Research

***Medical Sciences 300. Conduct of Science**

Catalog Number: 1815

David Lopes Cardozo (Medical School) 5995

***Medical Sciences 310. Advanced Topics in Medical Sciences**

Catalog Number: 7449

David Lopes Cardozo (Medical School) 5995

A series of reading and discussion seminars, each running for a half term (seven weeks).

Different topics are covered each term.

Note: Two seminars, which can be taken in different terms, are required for credit. Non-DMS students must get permission from the Division of Medical Sciences before registering for this course. Please contact us at 432-0162 or visit the DMS Office at T-MEC 435, 260 Longwood Avenue, Boston.

***Medical Sciences 399. Topics in Medical Sciences**

Catalog Number: 3197

David Lopes Cardozo (Medical School) 5995

Subject selected by students and faculty member.

Quarter Courses for Graduate Students Only

***Medical Sciences 300qc. Advanced Topics in Medical Sciences - (New Course)**

Catalog Number: 47879

David Lopes Cardozo (Medical School) 5995

A series of reading and discussion seminars, each running for a half term (7 weeks).

Note: Non-DMS students must get permission from the Division of Medical Sciences before



registering for this course. Please contact us at 617-432-0162 or visit the DMS Office at T-MEC 435, 260 Longwood Avenue, Boston.

***Medical Sciences 302qc. Science Writing - (New Course)**

Catalog Number: 50457 Enrollment: Limited to 10.

David Lopes Cardozo (Medical School) 5995

Quarter course (fall term; repeated spring term). Tu., Th., 2–3:30.

Intense, practice-oriented science writing.

Note: January course, offered from January 4, - 27, 2011.

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 201. Molecular Biology of the Bacterial Cell

Catalog Number: 38739

David Z. Rudner (Medical School), Thomas G. Bernhardt (Medical School), Simon L. Dove (Medical School), and Ann Hochschild (Medical School)

Half course (spring term). Tu., Th., 10–11:30.

This course is devoted to bacterial structure, physiology, genetics, and regulatory mechanisms. The class consists of lectures and group discussions emphasizing methods, results, and interpretations of classic and contemporary literature.

Microbiology 202. Molecular Basis of Bacterial Pathogenesis and Host Response

Catalog Number: 23632

John J. Mekalanos (Medical School), Marcia Goldberg (Medical School), Darren E. Higgins (Medical School), Jonathan C. Kagan (Medical School), and Stephen Lory (Medical School)

Half course (fall term). Tu., Th., 10–11:30.

Overview of classic paradigms in bacterial-host interactions. Discussions of pathogenic strategies and mechanisms used by representative bacterial pathogens during infection and innate and adaptive host immune defenses. Emphasis on the analysis of published work.

***Microbiology 205. Mechanisms of Microbial Pathogenesis**

Catalog Number: 2480 Enrollment: Limited to 40.

Clyde S. Crumpacker II (Medical School) and members of the Department

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.

Prerequisite: A background course in molecular biology is strongly encouraged.



Microbiology 210. A Microbial Planet

Catalog Number: 63006

Roberto G. Kolter (Medical School) and Jon Clardy (Medical School)

Half course (spring term). F., at 8:30, F., 9:45–11:45.

This course covers the broad spectrum of microbiology from biodiversity to the impact of microorganisms on geology, the environment, climate, and world health. Topics include the origins of life, biogeochemical cycles, microbial diversity, and ecology.

[Microbiology 213. Social Issues in Biology]

Catalog Number: 7905 Enrollment: Limited to 20.

Jonathan R. Beckwith (Medical School) and Roberto G. Kolter (Medical School)

Half course (spring term). Hours to be arranged.

Readings, discussion of social/ethical aspects of biology: history, philosophy of science; evolution vs. creationism; genetics and race; women and science; genetic testing; stem cell research; science journalism; genetics and the law; scientists and social responsibility.

Note: Expected to be given in 2011–12. Offered jointly with the Medical School as MG 722.0.

Alternates yearly between the Longwood and the Cambridge Campuses.

Prerequisite: Some background in genetics.

Microbiology 230. Analysis of the Biological Literature

Catalog Number: 3791

Elaine A. Elion (Medical School), Welcome W. Bender (Medical School), Michael Demian Blower (Medical School), Dipanjan Chowdhury, Kevin M. Haigis (Medical School), Marcia C. Haigis (Medical School), J. Wade Harper (Medical School), Jonathan M. G. Higgins (Medical School), Raghu Kalluri (Medical School), Carla Kim (Medical School), Jordan A. Kreidberg (Medical School), Charles M. Roberts (Medical School), Adrian Salic (Medical School), Ramesh Arjun Shivdasani (Medical School), David A. Sinclair (Medical School), Kevin Struhl (Medical School), and Sheila Thomas (Medical School)

Half course (fall term). Tu., Th., 3:30-6:30.

Critical analysis of original research articles in intensive small group discussions. Analyze range of papers in biochemistry, genetics, microbiology, and cell and developmental biology in terms of context, hypotheses, methods, results and future experiments.

Note: This course is required for first year BBS students. Students who are not first year BBS should contact the course director to determine if space and receive course materials in advance of class.

Graduate Courses of Reading and Research

Primarily designed for work on a dissertation 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

David Lopes Cardozo (Medical School) 5995

A series of reading and discussion seminars, each running for a half term (7 weeks). Two



seminars, which can be taken in different terms, are required for credit.

Note: Non-DMS students must get permission from the Division of Medical Sciences before registering for this course. Please contact us at 617-432-0605 or visit the DMS Office at T-MEC 435, 260 Longwood Avenue, Boston.

Prerequisite: Dependent on seminar.

***Microbiology 304. Molecular Pathogenesis of Streptococcal Infection**

Catalog Number: 9527

Michael R. Wessels (Medical School) 4540

***Microbiology 305. Molecular Determinants of Intracellular Bacterial Pathogenesis**

Catalog Number: 3190

Darren E. Higgins (Medical School) 2963

***Microbiology 307. Growth Factors and Signal Transduction**

Catalog Number: 5726

Charles D. Stiles (Medical School) 4828

***Microbiology 308. Bacterial/ Host Interactions in Symbiosis and Pathogenesis**

Catalog Number: 4217

Dennis L. Kasper (Medical School) 4815

***Microbiology 310. Bacterial Genetics of Tuberculosis and Tularemia**

Catalog Number: 7652

Eric J. Rubin (Medical School) 4084

***Microbiology 311. Microbiology and Molecular Genetics**

Catalog Number: 7402

Jonathan R. Beckwith (Medical School) 1173

***Microbiology 312. Acquired and Innate Immunity to Pneumococci**

Catalog Number: 78191

Richard Malley 6461

***Microbiology 313. T-Lymphocyte Responses to Bacterial Pathogens**

Catalog Number: 4959

Michael Starnbach (Medical School) 1816

***Microbiology 315. Biochemical Mechanisms Controlling Cell Growth and Differentiation**

Catalog Number: 3273

Michael E. Greenberg (Medical School) 1400

***Microbiology 316. Host Pathogen Interactions**

Catalog Number: 7769

Stephen Lory (Medical School) 4326



***Microbiology 317. Molecular Mechanisms in Pathogenesis**

Catalog Number: 8985

John J. Mekalanos (Medical School) 7315

***Microbiology 318. RNA Structure, RNA-protein Interactions, and Translation-level Gene Regulation in RNA Viruses**

Catalog Number: 1205

Lee Gehrke (Medical School) 8036

***Microbiology 320. Molecular Biology of Herpes Viruses**

Catalog Number: 3967

David M. Knipe (Medical School) 7089

***Microbiology 321. Molecular Biology of Bacterial Interactions**

Catalog Number: 2903

Roberto G. Kolter (Medical School) 7727

***Microbiology 322. Biochemistry of Bacterial Toxins**

Catalog Number: 4970

R. John Collier (Medical School) 7972

***Microbiology 324. Bacterial Pathogenesis and Vaccine Development**

Catalog Number: 3472

Gerald Pier (Medical School) 2853

***Microbiology 325. Signal Transduction, Host-Microbial Interactions and Immunology**

Catalog Number: 2839

Scott Brian Snapper (Medical School) 4969

***Microbiology 326. Biology and virulence of enteric pathogens**

Catalog Number: 4703

Matthew K. Waldor (Medical School) 5919

***Microbiology 327. Molecular Biology and Evolution of Retroviruses**

Catalog Number: 7939

Welkin E. Johnson (Medical School) 5354

***Microbiology 328. Molecular Biology of Epstein Barr Virus Infection and Transformation of B Lymphocytes**

Catalog Number: 3188

Elliott D. Kieff (Medical School) 1858

***Microbiology 329. The Regulation of Gene Expression in Pathogenic Bacteria**

Catalog Number: 5892

Simon L. Dove (Medical School) 4953



***Microbiology 330. Molecular Mechanisms in Bacterial Differentiation**

Catalog Number: 5102

David Z. Rudner (Medical School) 4968

***Microbiology 331. Modeling Mechanisms of Bacterial Pathogenesis**

Catalog Number: 1929

Cammie Lesser (Medical School) 4962

***Microbiology 332. Gene Regulation of Prokaryotes**

Catalog Number: 0915

Ann Hochschild (Medical School) 2314

***Microbiology 334. Primate Lentiviral Immunology and Pathogenesis**

Catalog Number: 8398

David T. Evans (Medical School) 5353

***Microbiology 335. Molecular Biology of Parasites**

Catalog Number: 0528

Dyann F. Wirth (Public Health) 2492

***Microbiology 336. Pathogen-host Interactions**

Catalog Number: 3981

Marcia Goldberg (Medical School) 3783

***Microbiology 337. Mycobacterial Signal Transduction and Transcription Regulation**

Catalog Number: 5826

Robert Husson (Medical School) 5914

***Microbiology 339. Bacterial Cell Division and Cell Biology**

Catalog Number: 7237

Thomas G. Bernhardt (Medical School) 5752

***Microbiology 341. Molecular Biology Multi-drug Resistant Pathogens - (New Course)**

Catalog Number: 88249

Michael S. Gilmore (Medical School) 6227

***Microbiology 343. Chemical Biology, Enzymology, Antibiotics, Glycosyltransferases, Inhibitors**

Catalog Number: 2963

Suzanne Walker (Medical School) 5087

***Microbiology 344. Chemistry and Biology of Host-Virus Interactions**

Catalog Number: 8853

Priscilla Yang (Medical School) 5156



***Microbiology 345. Pathogenesis of HIV-1 Transmission**

Catalog Number: 0534

Manish Sagar (Medical School) 5664

***Microbiology 346. Genetics of Bacterial Adhesion and Pathogenesis**

Catalog Number: 5690

Paula I. Watnick (Medical School) 5666

***Microbiology 347. Chemical Genetics Approach to Bacterial Pathogenesis**

Catalog Number: 2308

Deborah Tan Hung (Medical School) 5701

***Microbiology 348. Toll-like Receptors and Innate Immunity**

Catalog Number: 9708

Jonathan C. Kagan (Medical School) 6235

Quarter Courses for Graduate Students Only

***Microbiology 300qc. Advanced Topics in Microbiology and Molecular Genetics - (New Course)**

Catalog Number: 62986

David Lopes Cardozo (Medical School) 5995

A series of reading and discussion seminars, each running for a half term (7 weeks).

Note: Non-DMS students must get permission from the Division of Medical Sciences before registering for this course. Please contact us at 617-432-0162 or visit the DMS Office at T-MEC 435, 260 Longwood Avenue, Boston.

***Microbiology 301qc. Molecular Mechanisms of Microbial Pathogenesis - (New Course)**

Catalog Number: 76052 Enrollment: Limited to 15.

Marcia Goldberg (Medical School) 3783 and Simon L. Dove (Medical School) 4953

Quarter course (spring term). Th., 11:30–1.

During infection, microbial pathogens employ sophisticated mechanisms to enhance infection or dissemination. This course will focus on the recent literature on molecular mechanisms involved in bacteria pathogenesis during host-pathogen interactions.

Neurobiology

The Program in Neuroscience offers multidisciplinary training in the neurosciences leading to the PhD degree. Course instruction and supervision of dissertation research is provided by faculty of the Department of Neurobiology at Harvard Medical School as well as faculty of other departments at Harvard Medical School (and its affiliated medical institutions) and the Faculty of Arts and Sciences.

Courses at the 200 level may be open to advanced undergraduates with permission of the



instructor. Additional courses open to undergraduates are offered by the Neurobiology concentration, listed separately.

Primarily for Graduates

Neurobiology 200. Introduction to Neurobiology

Catalog Number: 6062 Enrollment: Limited to 50.

Richard H. Masland (Medical School), John A. Assad (Medical School), David P. Corey (Medical School), Matthew P. Frosch (Medical School), and Rosalind A. Segal (Medical School)
Half course (fall term). M., W., F., 9-12.

Modern neuroscience from molecular biology to perception and cognition. Includes cell biology of neurons and glia; ion channels and electrical signaling; synaptic transmission; brain anatomy and development; sensory systems; motor systems; higher cognitive function.

Note: Offered jointly with the Medical School as HT 130. Follows the Medical School calendar. Nine hours of lecture or lab/conference weekly.

Prerequisite: Introductory cell and molecular biology or with permission of instructor.

Neurobiology 204. Neurophysiology of Central Circuits

Catalog Number: 5603

Rachel I. Wilson (Medical School), John A. Assad (Medical School), Richard T. Born (Medical School), Gabriel Kreiman (Medical School), Margaret S. Livingstone (Medical School), and John Maunsell (Medical School)

Half course (spring term). M., W., 10-12.

This course introduces major themes and fundamental concepts underlying current research in systems neuroscience. Each week covers a different theme, and draws on research from different sensorimotor modalities and model organisms.

Note: Offered jointly with the Medical School as NB 721.0.

Prerequisite: Neurobiology 200 or with permission of instructor.

Neurobiology 207. Developmental Neurobiology

Catalog Number: 4977 Enrollment: Limited to 20.

Lisa V. Goodrich (Medical School), Michela Fagiolini (Medical School), Chenghua Gu (Medical School), and Beth Stevens (Medical School)

Half course (spring term). F., 10-12, W., 2-4.

Advanced topics in nervous system development, including cell fate determination, axon guidance, synapse development and critical periods. Focus on current areas of investigation, unresolved questions, and common experimental approaches.

Note: Offered jointly with the Medical School as NB 720.0. Students will read and discuss primary literature in the discussion sessions. Emphasis will be given to learning how to identify an important question and develop a feasible research plan, including a lecture on how to write a grant proposal and a mock study section. The final exam consists of a grant proposal; grades will also be determined by successful completion of homework assignments and class participation.

Prerequisite: Neurobiology 200 or with permission of instructor.

[Neurobiology 209. Neurobiology of Disease]

Catalog Number: 5562



Edward A. Kravitz (Medical School) and members of the Department
Half course (spring term). Hours to be arranged.

Monday sessions involve patient presentations and “core” lectures describing clinical progression, pathology, and basic science underlying a major disease or disorder. Wednesdays, students present material from original literature sources, and there is general discussion.

Note: Expected to be given in 2011–12. Given in alternate years. Offered jointly with the Medical School as NB 713.0. For advanced undergraduate, graduate students, MD and MD/PhD students.

Prerequisite: Introductory neurobiology, biochemistry, and genetics/molecular biology recommended.

***Neurobiology 220. Cellular Neurophysiology**

Catalog Number: 2141

Bruce P. Bean (Medical School), Wade G. Regehr (Medical School), Bernardo L. Sabatini (Medical School), and Gary I. Yellen (Medical School)

Half course (fall term). Tu., Th., 9-12 and a weekly discussion section.

Introduction to the physiology of neurons. Topics include structure and function of ion channels, generation and propagation of action potentials, and physiology of synaptic transmission.

Includes problem sets and reading of original papers.

Note: Offered jointly with the Medical School as NB 714.0.

Prerequisite: Introductory neurobiology.

Neurobiology 221. Molecular Neurobiology

Catalog Number: 0443

Charles J. Weitz (Medical School), Jonathan B. Cohen (Medical School), and Thomas L. Schwarz (Medical School)

Half course (spring term). Tu., Th., 10-12.

Molecular biology and genetics of the nervous system. Emphasis on importance of ligand-receptor interactions and receptor regulation for the function of the nervous system and on the mechanisms of storage and release of neurotransmitters.

Note: Offered jointly with the Medical School as NB 715.0.

Prerequisite: Introductory neurobiology and molecular biology. Permission of the instructor required for undergraduates.

Graduate Courses of Reading and Research

***Neurobiology 300. Advanced Topics in Neurobiology**

Catalog Number: 6206

David Lopes Cardozo (Medical School) 5995 and members of the Department

Topics cover areas at the molecular, cellular, and systems levels in both basic and clinical neuroscience. A series of reading and discussion seminars, each running for a half term (seven weeks).

Note: Two seminars, which can be taken in different terms, are required for credit. Non-DMS students must get permission from the Division of Medical Sciences before registering for this course. Please contact us at 617-432-0162 or visit the DMS Office at T-MEC 435, 260 Longwood Avenue, Boston.



***Neurobiology 301. Visual object Recognition: Computational Models and Neurophysiological Mechanisms**

Catalog Number: 8402

Gabriel Kreiman (Medical School) 6174

***Neurobiology 302. Attention and Representation of Sensory Information in Cerebral Cortex**

Catalog Number: 9850

John Maunsell (Medical School) 5670

***Neurobiology 303. Development, Function, and Disease State of the Inner Ear**

Catalog Number: 0660

Zheng-Yi Chen (Medical School) 5478

***Neurobiology 304. Behavioral Genetic Studies of Aggression in Drosophila**

Catalog Number: 5467

Edward A. Kravitz (Medical School) 2063

***Neurobiology 305. Cellular and Molecular Mechanisms of Epilepsy, Autism, and Postnatal Circuit Development**

Catalog Number: 1349

Matthew Peter Anderson (Medical School) 6691

***Neurobiology 306. The Molecular Mechanisms of How Neural and Vascular Networks are Coordinately Developed**

Catalog Number: 0992

Chenghua Gu (Medical School) 5479

***Neurobiology 308. Molecular Mechanisms of Catecholaminergic-specific Gene Regulation**

Catalog Number: 6125

Kwang-Soo Kim (Medical School) 3046

***Neurobiology 309. Neural Circuitry in Schizophrenia**

Catalog Number: 3823

Francine M. Benes (Medical School) 1869

***Neurobiology 310. Neural Coding of Chemosensory Stimuli**

Catalog Number: 2408

Rachel I. Wilson (Medical School) 5257

***Neurobiology 311. Cellular and Molecular Studies of Synapse Formation in the Vertebrate Nervous System**

Catalog Number: 0081

Joshua R. Sanes 5094



***Neurobiology 312. The Study of Synaptic Competition by Visualizing Synaptic Rearrangements Directly in Living Animals Using Modern Optical Techniques**

Catalog Number: 0082

Jeff W. Lichtman 5163

***Neurobiology 313. Molecular Biology of Mammalian Circadian Clocks**

Catalog Number: 1758

Charles J. Weitz (Medical School) 1139

***Neurobiology 314. Cellular Mechanism(s) of Axon Guidance**

Catalog Number: 1742

Mustafa Sahin (Medical School) 6175

***Neurobiology 315. Neurotrophic Factors in Development: Functions and Mechanisms of Action**

Catalog Number: 0128

Rosalind A. Segal (Medical School) 1564

***Neurobiology 317. Molecular Genetic Dissection of Auditory Circuit Assembly and Inner Ear Morphogenesis**

Catalog Number: 4979

Lisa V. Goodrich (Medical School) 4771

***Neurobiology 318. Molecular Genetics of Cerebral Cortical Development**

Catalog Number: 0825

Christopher A. Walsh (Medical School) 1560

***Neurobiology 319. Neurological Control of Cell Growth and Differentiation**

Catalog Number: 2991

Michael E. Greenberg (Medical School) 1400

***Neurobiology 320. Neuroprotection and Neuronal Repair in Neurodegenerative Disease**

Catalog Number: 4825

Ole S. Isacson (Medical School) 2077

***Neurobiology 321. Visual Perception, Object Recognition, Higher Cognitive Functions, Vision and Art**

Catalog Number: 5387

Margaret S. Livingstone (Medical School) 1064

***Neurobiology 322. Cellular and Molecular Mechanisms in Axon Guidance and Regeneration**

Catalog Number: 2873

Zhigang He (Medical School) 3910



***Neurobiology 323. Synaptic Plasticity**

Catalog Number: 3209

Florian Engert 4290

***Neurobiology 324. Research in Neuropeptide Gene Regulation**

Catalog Number: 4057

Joseph A. Majzoub (Medical School) 1875

***Neurobiology 325. Synaptic Transmissions and Dendritic Processing**

Catalog Number: 2065

Wade G. Regehr (Medical School) 1606

***Neurobiology 326. Age-Dependent Mechanisms of Perinatal Brain Injury**

Catalog Number: 2469

Frances E. Jensen (Medical School) 3940

***Neurobiology 327. Rotations in Neurosciences**

Catalog Number: 5694

Richard T. Born (Medical School) 1787

***Neurobiology 328. Mechanisms of Cell Death in Stroke and Trauma**

Catalog Number: 8967

Eng H. Lo (Medical School) 3049

***Neurobiology 329. Molecular Mechanisms of Neurodegeneration in Alzheimer's and Parkinsons Diseases**

Catalog Number: 8816

Dennis J. Selkoe (Medical School) 2857

***Neurobiology 330. Gene Expression in the Brain and Motivated Behavior**

Catalog Number: 6269

William A. Carlezon (Medical School) 3929

***Neurobiology 331. Neural Differentiation, Regeneration and Stem Cell Regulation in the Brain and Eye**

Catalog Number: 9045

Dong Feng Chen (Medical School) 3930

***Neurobiology 332. Ligand-Gated Ion Channels: Structure and Function**

Catalog Number: 1623

Jonathan B. Cohen (Medical School) 1120

***Neurobiology 333. Intercellular Communication**

Catalog Number: 2484

David L. Paul (Medical School) 2318



***Neurobiology 334. Hair Cells and Afferent Neurons of the Inner Ear**

Catalog Number: 1134

Ruth Anne Eatock (Medical School) 5739

***Neurobiology 336. Developmental Cognitive Neuroscience, Focusing Primarily on Memory and Face Processing.**

Catalog Number: 2242

Charles A. Nelson (Medical School) 5480

***Neurobiology 337. Neurobiology of the Human Circadian Pacemaker**

Catalog Number: 5322

Charles A. Czeisler (Medical School) 7763

***Neurobiology 338. Neural Circuitry of Primate Visual Cortex**

Catalog Number: 5634

Richard T. Born (Medical School) 1787

***Neurobiology 339. Mechanisms of Central Synaptic Transmission**

Catalog Number: 9322

Vadim Bolshakov (Medical School) 4948

***Neurobiology 340. Functional Organization of the Retina**

Catalog Number: 5261

John E. Dowling 3545

***Neurobiology 341. Cognition and Cognitive Disorders; the Role of Translational Regulation**

Catalog Number: 8790

Raymond J. Kelleher (Medical School) 5740

***Neurobiology 342. Neurophysiology of Visual Cortex and LGN**

Catalog Number: 2778

R. Clay Reid (Medical School) 2957

***Neurobiology 343. Neuronal Metabolism and Excitability; Molecular Physiology of Ion Channels**

Catalog Number: 1887

Gary I. Yellen (Medical School) 3268

***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 349. Olfactory and Vomeronasal Systems Molecular and Developmental Neurobiology**

Catalog Number: 1416

Catherine Dulac 2801

***Neurobiology 350. Molecular Genetics of Neuronal Development**

Catalog Number: 2038

Constance L. Cepko (Medical School) 1150

***Neurobiology 351. Neurogenetics of Disease**

Catalog Number: 3008

Louis M. Kunkel (Medical School) 1330

***Neurobiology 352. Neural-glial Interaction for the Development and Maintenance of Chronic Pain**

Catalog Number: 1264

Ru-Rong Ji (Medical School) 5747

***Neurobiology 353. New Biology Through Physics: Molecular Discoveries with Light**

Catalog Number: 3689

David E. Clapham (Medical School) 2987

***Neurobiology 354. Structural Biology of Signaling and Transport Through Biological Membranes**

Catalog Number: 9454

Rachelle Gaudet 4413

***Neurobiology 356. Ion Channels in Neural Cell Membranes**

Catalog Number: 8368

David P. Corey (Medical School) 1345

***Neurobiology 357. Experience-Dependent Neuronal Circuit Maturation and Plasticity**

Catalog Number: 6674

Michela Fagiolini (Medical School) 5751

***Neurobiology 358. Neurogenetics of Human Disease**

Catalog Number: 7616

Xandra O. Breakefield (Medical School) 1428

***Neurobiology 359. Functional Characterization of Neural Circuits**

Catalog Number: 23173

Sandeep Robert Datta 6518



***Neurobiology 360. Neural Signal Processing and Mechanisms of General Anesthesia**

Catalog Number: 8525

Emery N. Brown (Medical School) 1399

***Neurobiology 361. Immunobiology of the Nervous System and its Tumors**

Catalog Number: 7282

Lois A. Lampson (Medical School) 2491

***Neurobiology 362. Optical imaging in Alzheimer's disease**

Catalog Number: 5030

Brian Bacskai (Medical School) 6693

***Neurobiology 363. Axonal Development and Reorganization**

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. Behavioral Pharmacology of Stimulant Drugs and Brain Dopamine Systems as they relate to Psychiatric Disorders.**

Catalog Number: 8902

S. Barak Caine (Medical School) 5477

***Neurobiology 366. Functional Organization of the Retina**

Catalog Number: 7391

Richard H. Masland (Medical School) 4923

***Neurobiology 367. Neo-Cortical Development and Cellular Transplantation**

Catalog Number: 4252

Jeffrey D. Macklis 3396

***Neurobiology 368. The Neurobiology of Alzheimer's Disease and Related Neurodegenerative Disorders**

Catalog Number: 5054

Bruce Yankner (Medical School) 1557

***Neurobiology 369. Function of Neural Circuits**

Catalog Number: 1828

Markus Meister 3007

***Neurobiology 370. Genetic and Molecular Studies of Neurodegenerative Diseases**

Catalog Number: 8336

Rudolph E. Tanzi (Medical School) 2683



***Neurobiology 371. Sensory Neuron Development and Sleep Using Genetics and Live Imaging in Zebrafish.**

Catalog Number: 7081

Alexander F. Schier 5238

***Neurobiology 372. Neurotransmitter Control of Ion Channels**

Catalog Number: 7104

Bruce P. Bean (Medical School) 1148

***Neurobiology 373. Developmental Studies of the Murine Trigeminal Sensory System**

Catalog Number: 7485

Qiufu Ma (Medical School) 3034

***Neurobiology 374. Molecular Basis of Alzheimer's Disease & Parkinson's Disease**

Catalog Number: 9022

Jie Shen (Medical School) 3059

***Neurobiology 375. Mechanisms of Synaptic Transmission & Plasticity**

Catalog Number: 0790

Venkatesh N. Murthy 2424

***Neurobiology 376. Genetics of Neuronal Cell Biology**

Catalog Number: 2911

Thomas L. Schwarz (Medical School) 3923

***Neurobiology 377. Physiological Studies of Phototransduction and Light Adaptation**

Catalog Number: 6897

Clint L. Makino (Medical School) 3946

***Neurobiology 378. Neuronal Mechanisms and Animal Behavior**

Catalog Number: 9659

Naoshige Uchida 5745

***Neurobiology 379. Growth Factor Regulation of Neural Development and Oncogenesis**

Catalog Number: 7751

Scott L. Pomeroy (Medical School) 3947

***Neurobiology 380. Functional Wiring of the Rabbit Retina, Control of Postnatal Development**

Catalog Number: 4965

Elio Raviola (Medical School) 3582

***Neurobiology 381. Glutamate Transporters, Cell Death, Sleep/Wake Regulation**

Catalog Number: 6912

Paul Allen Rosenberg (Medical School) 3949



***Neurobiology 382. Hypothalamus and Melanin Concentrating Hormone in the Regulation of Energy Homeostasis**

Catalog Number: 1457

Eleftheria Maratos-Flier (Medical School) 4327

***Neurobiology 383. Role of the Basal Ganglia in Learning and Motivation**

Catalog Number: 0492

Emad Eskandar (Medical School) 6176

***Neurobiology 385. Mammalian Gap Junctions, Inhibitory Neuronal Networks, and Corticothalamic Processing**

Catalog Number: 1296

Carole Landisman (Medical School) 5787

***Neurobiology 386. Changes in Sensory Neurons that Contribute to Pain**

Catalog Number: 7609

Clifford Woolf (Medical School) 3956

***Neurobiology 387. Development and Plasticity of Auditory Cortex - (New Course)**

Catalog Number: 20829

Daniel B. Polley (Medical School) 6881

***Neurobiology 388. Molecular Genetics of Neuroscience - (New Course)**

Catalog Number: 57244

Instructor to be determined

***Neurobiology 389. Molecular Regulation of Neural Tube Development**

Catalog Number: 3914

Mary R. Loeken (Medical School) 3151

***Neurobiology 390. Mechanisms of Synapse Regulation**

Catalog Number: 9202

Bernardo L. Sabatini (Medical School) 4300

***Neurobiology 392. Synaptic Plasticity in the CNS**

Catalog Number: 6750

Chinfei Chen (Medical School) 4437

***Neurobiology 393. Genetic Disorders of Axon Growth and Guidance**

Catalog Number: 3085

Elizabeth C. Engle (Medical School) 4312

***Neurobiology 394. Human Memory Processing and Brain State - (New Course)**

Catalog Number: 23915

Edwin Malcolm Robertson (Medical School) 6565



***Neurobiology 395. Neuron-Glia Interactions During Development & Disease; Synapse Development & Plasticity; Neuro-Immune Interactions**

Catalog Number: 7993

Beth Stevens (Medical School) 6678

***Neurobiology 396. Critical Period Mechanisms of Experience-Dependent Brain Development**

Catalog Number: 0142

Takao K. Hensch 5813

***Neurobiology 397. Nervous System Construction and Function**

Catalog Number: 0158

Samuel M. Kunes 3486 (on leave fall term)

***Neurobiology 398. HSV Vectors for Cancer Therapy**

Catalog Number: 4438

Samuel D. Rabkin (Medical School) 4772

***Neurobiology 399. Neurocircuits Thought to Regulate Metabolism and Behavior**

Catalog Number: 5626

Bradford Barr Lowell (Medical School) 5741

Quarter Courses for Graduate Students Only

***Neurobiology 300qc. Advanced Topics in Neurobiology - (New Course)**

Catalog Number: 11464

David Lopes Cardozo (Medical School) 5995

A series of reading and discussion seminars, each running for a half term (7 weeks).

Note: Non-DMS students must get permission from the Division of Medical Sciences before registering for this course. Please contact us at 617-432-0162 or visit the DMS Office at T-MEC 435, 260 Longwood Avenue, Boston.

***Neurobiology 301qc. Gene Therapy and Imaging for Nervous System Disorders - (New Course)**

Catalog Number: 18456 Enrollment: Limited to 12.

Xandra O. Breakefield (Medical School) 1428 and Bakhos A. Tannous 6863

Quarter course (fall term). Tu., 3–5.

Introduction to gene therapy, different techniques in molecular imaging to monitor gene transfer and response to therapy. Discuss trends in gene therapy: viral vectors, siRNA and cell-based therapy, clinical trials for central nervous system disorders.

Note: Go to [http://www.med.harvard.edu/dms/Current/DMS Quarter Courses.html](http://www.med.harvard.edu/dms/Current/DMS%20Quarter%20Courses.html) for more details.

***Neurobiology 302qc. Acute and Chronic Pain: Molecular and Cellular Mechanisms, Genetics, and Treatments - (New Course)**

Catalog Number: 93864 Enrollment: Limited to 12.



Ru-Rong Ji (Medical School) and Gary R. Strichartz (Medical School)

Quarter course (spring term). W., 4–6.

Neurobiology and pharmacology of acute and chronic pain. Classic and modern approaches to understanding pain mechanisms, from anatomy and neurophysiology of impulse generation and transmission to identification of the target molecules in neurons and glia.

***Neurobiology 303qc. Tools for Statistical Inference in Experimental Science - (New Course)**

Catalog Number: 65564 Enrollment: Limited to 35.

Gary I. Yellen (Medical School) 3268

Quarter course (fall term; repeated spring term). M., W., F., 3–5.

Introduction to statistical treatment of experimental data, particular reference to problems in neuroscience. Basic topics in statistics, including probability distributions, sampling, hypothesis testing, Bayes's Theorem, t tests, confidence intervals, and ANOVA and related tests

***Neurobiology 304qc. Regeneration and Repair in the Mammalian Nervous System: Cellular and Molecular Mechanisms - (New Course)**

Catalog Number: 41092 Enrollment: Limited to 18.

Jeffrey D. Macklis 3396, Larry I. Benowitz (Medical School) 3150, Zhigang He (Medical School) 3910, and Clifford Woolf (Medical School) 3956

Quarter course (spring term). Tu., 5:30–7:30 p.m.

Approaches toward mammalian neural regeneration, comparing and contrasting development with adult plasticity/repair. Overview lectures and discussion of primary literature, motivated by motor and sensory circuitry central to spinal cord injury, ALS, and peripheral nerve injury.

Note: More details can be found by going to the Division of Medical Sciences website, then clicking Current Students and selecting Quarter Courses.

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

Albert S.M. Edge

Half course (fall term). Hours to be arranged.

Examines the exciting advances in inner ear genetics and molecular biology. Topics include identifying deafness genes, genes and proteins recently identified as critical for proper inner ear function, development, and regeneration.

Note: Expected to be given in 2011–12. Given in alternate years.

Prerequisite: Introductory courses in neurobiology and molecular biology are recommended.



[Pathology 209. Tumor Pathophysiology and Transport Phenomena - A Systems Biology Approach]

Catalog Number: 5934

Rakesh K. Jain (Medical School)

Half course (fall term). M., 5–7 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 tumor biology and treatment.

Note: Expected to be given in 2011–12. Given in alternate years. Offered jointly with the Medical School as PA 712.0.

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 dissertation problem, carried out under the direct supervision of one of the following faculty members, whose special research interests are listed.

***Pathology 300. Advanced Topics in Pathology**

Catalog Number: 2245

David Lopes Cardozo (Medical School) 5995

A series of reading and discussion seminars, each running for a half term (seven weeks).

Different topics are covered each term.

Note: Two seminars, which can be taken in different terms, are required for credit. Non-DMS students must get permission from the Division of Medical Sciences before registering for this course. Please contact us at 617-432-0162 or visit the DMS Office at T-MEC 435, 260 Longwood Avenue, Boston.

Prerequisite: Dependent on seminar.

***Pathology 302. Molecular Mechanisms of Leukocyte Trafficking**

Catalog Number: 2273

Ulrich H. Von Andrian-Werburg (Medical School) 2090

***Pathology 303. Viral Pathogenic and Transformation Mechanisms**

Catalog Number: 1644

Peter M. Howley (Medical School) 1076

***Pathology 307. Polarity and Trafficking of Membrane Proteins in Epithelial Cells**

Catalog Number: 7151

Dennis Brown (Medical School) 1582

***Pathology 310. Regulation of Vascular Development and Pathology**

Catalog Number: 2653

Patricia A. D'Amore (Medical School) 1168



***Pathology 312. Research in Molecular Cytogenetics**

Catalog Number: 7347

Cynthia C. Morton (Medical School) 2194

***Pathology 313. Research in Integrin Signaling, Cytoskeleton, and Control of Angiogenesis**

Catalog Number: 4139

Donald E. Ingber 2832

***Pathology 314. Molecular Basis of Cell Adhesion and Migration**

Catalog Number: 1156

Timothy A. Springer (Medical School) 6145

***Pathology 315. Epigenomics of Allele-Specific Expression**

Catalog Number: 26669

Alexander Gimelbrant 6521

***Pathology 316. Control of Gene Expression in Tumorigenesis and Differentiation**

Catalog Number: 3892

Thomas M. Roberts (Medical School) 7729

***Pathology 317. Epithelial:stromal Interactions in the Formation and Progression of Carcinomas**

Catalog Number: 93298

Antoine Karnoub 6458

***Pathology 318. Cancer Stem Cell Self-renewal**

Catalog Number: 41776

David M. Langenau 6459

***Pathology 321. Intracellular Signaling Mechanisms in Brain Development and Disease**

Catalog Number: 8032

Azad Bonni (Medical School) 2923

***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 327. Genetic Models of Leukemogenesis**

Catalog Number: 5534

A. Thomas Look (Medical School) 3771



***Pathology 329. Tissue-Specific Lymphocyte Homing and Diversity**

Catalog Number: 7366

James J. Campbell (Medical School) 4438

Pathology 330. Aging, Stress Defenses, and Developmental Gene Regulation in *C. elegans

Catalog Number: 5521

T. Keith Blackwell (Medical School) 1826

***Pathology 332. Control of Cell Proliferation by RB/E2F**

Catalog Number: 0445

Nicholas J. Dyson (Medical School) 1829

***Pathology 333. Genetics of Neurodegenerative Disease**

Catalog Number: 4845

Mel B. Feany (Medical School) 4439

***Pathology 334. Characterization of Molecular Targets of Cancer Therapy**

Catalog Number: 5744

Daniel A. Haber (Medical School) 1832

***Pathology 335. Molecular Approaches to Cell Immortalization and Transformation**

Catalog Number: 2283

William C. Hahn (Medical School) 4317

***Pathology 343. Cell Adhesion in Vascular Biology**

Catalog Number: 4822

Denisa D. Wagner (Medical School) 2092

***Pathology 350. Topics in Vascular Biology**

Catalog Number: 0289

Michael A. Gimbrone (Medical School) 1896

***Pathology 351. Membrane: Cytoskeleton Interface in Morphogenesis and Tumorigenesis/Metastasis**

Catalog Number: 5656

Andrea I. McClatchey (Medical School) 2204

***Pathology 352. Recombination Functions of the BRCA Genes**

Catalog Number: 5001

Ralph Scully (Medical School) 4536

***Pathology 353. Cell Cycle Proteins in Development and Cancer**

Catalog Number: 1475

Piotr Sicinski (Medical School) 2245



***Pathology 354. Biochemistry of Transmembrane Receptors Interactions**

Catalog Number: 9969

Stephen C. Blacklow (Medical School) 1462

***Pathology 359. Signal Transduction Pathways Involved in Cellular Proliferation and Apoptosis**

Catalog Number: 2841

Roya Khosravi-Far (Medical School) 2704

***Pathology 360. Biology and Genetics of Human Cancers**

Catalog Number: 0188

Matthew L. Meyerson (Medical School) 2421

***Pathology 361. Molecular Mechanisms of Aging and Age Related Diseases**

Catalog Number: 6096

David A. Sinclair (Medical School) 2610

***Pathology 364. Molecular Genetics of Erythroid Iron Metabolism**

Catalog Number: 5354

Mark Daniel Fleming (Medical School) 4955

***Pathology 365. Control of Endothelial Cell Fate and Vascular Development by Fluid Mechanical Forces**

Catalog Number: 4860

Guillermo Garcia-Cardena (Medical School) 4956

***Pathology 366. Elucidate the Molecular Basis of Neutrophil Function in Autoimmune Disease**

Catalog Number: 4122

Tanya Mayadas (Medical School) 4963

***Pathology 368. Signaling Pathways in Cancer Cell Biology**

Catalog Number: 1919

Alex Toker (Medical School) 4971

***Pathology 369. Molecular Recognition and Protein Engineering**

Catalog Number: 8852

J. Keith Joung (Medical School) 5149

***Pathology 370. Mechanism and biology of ubiquitin-like protein conjugation cascades**

Catalog Number: 1354

J. Wade Harper (Medical School) 4957

***Pathology 371. Biology and Function of Tissue-Specific Stem Cells**

Catalog Number: 9993

Amy J. Wagers 5212



***Pathology 372. DNA Damage Responses and Genomic Stability**

Catalog Number: 5604

Lee Zou (Medical School) 5258

***Pathology 373. Integration of Cellular Metabolism and Apoptosis**

Catalog Number: 8788

Nika Danial (Medical School) 5393

***Pathology 374. Cell Signaling in Innate Immunity**

Catalog Number: 9911

Hongbo Luo (Medical School) 5395

***Pathology 375. Mechanisms and Applications of Mammalian RNA Interference**

Catalog Number: 2870

Carl D. Novina (Medical School) 5356

***Pathology 377. Epigenetic Mechanisms in Mammalian Development**

Catalog Number: 5739

Bradley E. Bernstein (Medical School) 5669

***Pathology 378. Epigenetic Regulation in Development and Disease**

Catalog Number: 8317

Laurie Jackson-Grusby (Medical School) 5671

***Pathology 379. Mitochondria in Aging and Metabolism**

Catalog Number: 7386

Marcia C. Haigis (Medical School) 5734

***Pathology 380. Modeling Ovarian Cancer Pathogenesis and Early Detection**

Catalog Number: 8863

Ronny I. Drapkin (Medical School) 5912

***Pathology 381. Ras Signaling and Colon Cancer**

Catalog Number: 7281

Kevin M. Haigis (Medical School) 5913

***Pathology 382. Mechanisms of Acute and Chronic Allograft Rejection**

Catalog Number: 1744

Richard N. Mitchell (Medical School) 5916

***Pathology 383. Cell Cycle, Ubiquitination and Protein Degradation, Cancer Research**

Catalog Number: 9068

Wenyi Wei (Medical School) 5918



***Pathology 384. The Molecular Genetics of Human Cancer**

Catalog Number: 3734

Pier Paolo Pandolfi (Medical School) 6177

***Pathology 385. Epigenetic Regulation by Large Non-coding RNA**

Catalog Number: 4220

John L. Rinn (Medical School) 6229

***Pathology 386. Cellular Reprogramming, Hematopoietic Stem Cell Biology and Aging**

Catalog Number: 3429

Derrick J. Rossi (Medical School) 6330

***Pathology 387. Kinase Signaling in Cancer**

Catalog Number: 8048

Jean J. Zhao (Medical School) 6237

***Pathology 388. Impact of Epigenetics On Cellular Homeostasis**

Catalog Number: 5410

Johnathan Whetstine (Medical School) 6244

Quarter Course for Graduate Students Only

***Pathology 301qc. The Molecular Bases of Eye Disease - (New Course)**

Catalog Number: 85085

Darlene Ann Dartt 6904

Quarter course (spring term). M., 3–5.

Understanding of the molecular bases for diseases that target the eye.

Note: Go to [http://www.med.harvard.edu/dms/Current/DMS Quarter Courses.html](http://www.med.harvard.edu/dms/Current/DMS%20Quarter%20Courses.html) for more details.

Pharmacology

For courses pertaining to Pharmacology see listings under the Department of Biological Chemistry and Molecular Pharmacology.

Virology

Primarily for Graduates

***Virology 200. Introduction to Virology**

Catalog Number: 6075 Enrollment: Limited to 20.

Elliott D. Kieff (Medical School), David M. Knipe (Medical School), Karl M  nger (Medical School), and Max L. Nibert (Medical School)

Half course (fall term). W., 12:30–3, M., 3–4:30.

Introduction to virology. The lecture component reviews the basic principles of virology and



introduces the major groups of human viruses. Weekly discussion groups critically analyze selected papers from the literature.

Note: There will be a final project consisting of a proposal based on laboratory rotations (for Virology, BBS, or Immunology Program students) or a final paper based on a topic from the literature. Offered jointly with the Medical School as MG 705.0.

Virology 201. Virology

Catalog Number: 1190

Sean P.J. Whelan (Medical School), James M. Cunningham (Medical School), David T. Evans (Medical School), and Welkin E. Johnson (Medical School)

Half course (spring term). Tu., Th., 10:30–12.

Literature based reading. Proposal writing. Course covers a broad range of topics: viral genetics, structure/replication, pathogenesis, evolution ("emerging viruses"), chronic infection, latency, innate and adaptive immunity, anti-viral drugs and vaccine strategies.

Note: Offered jointly with the Medical School as MG 723.0.

Prerequisite: Graduate standing and permission required.

Virology 202. Animal Virology: Seminar

Catalog Number: 6025

Michael R. Farzan (Medical School), Welkin E. Johnson (Medical School), Frederick C. Wang (Medical School), Priscilla Yang (Medical School), and Xinzhen Yang (Medical School)

Half course (fall term). W., 1:30–4:30.

Students will write, present, and evaluate research proposals in the areas of virus replication, viral pathogenesis and treatment and prevention of viral infections.

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

David M. Knipe (Medical School) 7089

***Virology 301. Herpes Virus Interaction with the Host Cell**

Catalog Number: 7344

David M. Knipe (Medical School) 7089

***Virology 303. AIDS Pathogenesis Research in the Nonhuman Primate Model of SIV Infection with a Focus on Host Immune Responses in Natural Hosts of SIV, AIDS Vaccine Development, and Immunopathogenesis of CMV Infection**

Catalog Number: 6772

Amitinder Kaur (Medical School) 6692

***Virology 304. Molecular Biology of Kaposi's Sarcoma-Associated Herpes Virus**

Catalog Number: 8182

Kenneth M. Kaye (Medical School) 3064



***Virology 305. Entry and Replication of Negative-Strand RNA Viruses**

Catalog Number: 5437

Sean P.J. Whelan (Medical School) 4591

***Virology 306. Structure and Function of Herpes virus DNA Polymerase and the HIV Reverse Transcriptase; Resistance to Antiviral Drugs in Clinical Viral Isolates and Mechanisms of Resistance and Pathogenesis**

Catalog Number: 6968

Clyde S. Crumpacker II (Medical School) 1092

***Virology 307. Genetics and Biochemistry of Prokaryotic Transposable Elements and Yeast Meiotic Chromosome Metabolism**

Catalog Number: 6097

Nancy Kleckner 4697

***Virology 308. Molecular Genetics of Herpes Virus**

Catalog Number: 3000

Donald M. Coen (Medical School) 7617

***Virology 309. Human Oncogenic Viruses**

Catalog Number: 4011

Jack L. Strominger 1193

***Virology 310. Cellular Transformation by SV40**

Catalog Number: 0221

James A. DeCaprio (Medical School) 1296

***Virology 311. Molecular Biology of Epstein-Barr Infection**

Catalog Number: 0513

Frederick C. Wang (Medical School) 1297

***Virology 312. Molecular Pathogenesis of EBV Associated Cancers**

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 (formerly *Pathology 323). Viral Oncoproteins as Probes to Study the Regulation of Cell Growth and Differentiation**

Catalog Number: 6286

Karl Münger (Medical School) 1586



***Virology 315. Mechanisms of Transcriptional Repression in Eukaryotic Cells**

Catalog Number: 0462

Yang Shi (Medical School) 3169

***Virology 317. Virology and Immunology of Human Retroviruses**

Catalog Number: 0954

Myron Essex (Public Health) 2499

***Virology 318. Persistence and Pathogenesis of Hepatitis C Virus Infection**

Catalog Number: 9144

Raymond Taeyong Chung (Medical School) 6178

***Virology 319. Functional Analysis of Tumor Suppression Genes**

Catalog Number: 5817

David Morse Livingston (Medical School) 4872

***Virology 320. Pathogenesis of Human Retroviruses**

Catalog Number: 1532

Joseph G. Sodroski (Public Health) 1712

***Virology 321. Retroviral DNA Integration**

Catalog Number: 6857

Alan N. Engelman (Medical School) 2196

***Virology 322. HIV Molecular Biology and Pathogenesis**

Catalog Number: 9023

Dana Gabuzda (Medical School) 1581

***Virology 323. Immunobiology of the Epstein-Barr Virus Receptor; Pathogenesis of EBV and B-cell Tumors**

Catalog Number: 0778

Joyce D. Fingerth (Medical School) 2707

***Virology 324. Leukemogenic Retroviruses**

Catalog Number: 5263

James M. Cunningham (Medical School) 2346

***Virology 325. Retroviral Pathogenesis; AIDS Vaccine Development, and the Nature of Protective Immunity**

Catalog Number: 8029

Ruth M. Ruprecht (Medical School) 2716

***Virology 326. Pathogenesis and Treatment of Human Retrovirus and Herpesvirus Infection**

Catalog Number: 6440

Martin S. Hirsch (Medical School) 2876



***Virology 327. Epstein-Barr virus nuclear proteins in lymphomagenesis and the viral lifecycle**

Catalog Number: 8083

Eric Christian Johannsen 6264

***Virology 328. Humoral Response to Retroviral Infections in Humans; Identification of Coding Sequence of Human Retroviruses and their Gene Products**

Catalog Number: 2513

Tun-Hou Lee (Public Health) 2769

***Virology 329. Cellular Immunology of Persistent Human Virus Infections**

Catalog Number: 5417

Bruce Walker (Medical School) 2847

***Virology 330. Critical Readings in Virology**

Catalog Number: 5966

David Lopes Cardozo (Medical School) 5995

A series of reading and discussion seminars, each running for a half term (seven weeks).

Different topics are covered each term.

Note: Two seminars, which can be taken in different terms, are required for credit. Non-DMS students must get permission from the Division of Medical Sciences before registering for this course. Please contact us at 617-432-0162 or visit the DMS Office at T-MEC 435, 260 Longwood Avenue, Boston.

***Virology 331. Polyomavirus JC, the Etiologic Agent of Progressive Multifocal Eukoencephalopathy (PML)**

Catalog Number: 9476

Igor J. Koralnik (Medical School) 6179

***Virology 332. Protein Phosphorylation and Gene Expression in Normal and Transformed Cells**

Catalog Number: 9093

Raymond L. Erikson 7506 (on leave fall term)

***Virology 333. Antiretroviral Drug Resistance, and Drug Resistant Human Immunodeficiency Virus**

Catalog Number: 5526

Daniel R. Kuritzkes (Medical School) 4773

***Virology 334. HIV-1 and Other Viruses**

Catalog Number: 3803

Michael R. Farzan (Medical School) 4775

***Virology 336. Genetic Changes in HIV and Hepatitis C Virus**

Catalog Number: 8685

Todd Allen (Medical School) 6180



***Virology 337. Humoral and Innate Immune Responses During Viral Infections Focusing on HIV-1 Infection**

Catalog Number: 0111

Xinzhen Yang (Medical School) 6182

***Virology 338. Metabolism and Survival Pathways of Epstein-Barr Virus Transformed Cells**

Catalog Number: 7495

Ellen D. Cahir-McFarland 6268

***Virology 339. Mechanisms of HIV protein degradation, epitope processing and presentation to virus-specific CD8 T cells**

Catalog Number: 3999

Sylvie Le Gall 6269

***Virology 347 (formerly *Microbiology 342). Reovirus Structure, Assembly, and Particle Functions in Entry and RNA Synthesis**

Catalog Number: 4181

Max L. Nibert (Medical School) 3896

***Virology 348. Immunopathogenesis of HIV-1 and the Development of HIV-1 Vaccine Strategies**

Catalog Number: 8409

Dan Hung Barouch (Medical School) 5744

***Virology 349. Imaging Techniques to Study the Behavior of Individual Biological Molecules and Complexes in Vitro and in Live Cells**

Catalog Number: 33202

Xiaowei Zhuang 3991

Quarter Course for Graduate Students Only

***Virology 300qc. Advanced Topics in Virology - (New Course)**

Catalog Number: 78093

David Lopes Cardozo (Medical School) 5995

A series of reading and discussion seminars, each running for a half term (7 weeks).

Note: Non-DMS students must get permission from the Division of Medical Sciences before registering for this course. Please contact us at 617-432-0162 or visit the DMS Office at T-MEC 435, 260 Longwood Avenue, Boston.

***Virology 301qc. Advanced Topics in Virology - (New Course)**

Catalog Number: 33563

Alan N. Engelman (Medical School) 2196

Quarter course (fall term; repeated spring term). M. through Su., 4:30–6.

Critical evaluation of virology-related papers reporting a seminal contribution, strong methodological approaches or, in some cases, due to errors in methodology or author



interpretation. Requirements include written critiques and class participation. January course.
Note: Go to [http://www.med.harvard.edu/dms/Current/DMS Quarter Courses.html](http://www.med.harvard.edu/dms/Current/DMS%20Quarter%20Courses.html) for more details.

Medieval Studies

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Committee on Medieval Studies

Jeffrey F. Hamburger, Kuno Francke Professor of German Art and Culture (*Chair*)
Charles Donahue, Jr., Paul A. Freund Professor of Law (*Law School*)
Daniel G. Donoghue, John P. Marquand Professor of English
John Duffy, Dumbarton Oaks Professor of Byzantine Philology and Literature
Michael S. Flier, Oleksandr Potebnja Professor of Ukrainian Philology
Luis M. Girón Negrón, Professor of Romance Languages and Literatures and of Comparative Literature
Virginie Greene, Professor of Romance Languages and Literatures, Harvard College Professor
Baber Johansen, Professor of Islamic Studies (*Divinity School*)
Mark D. Jordan, Richard Reinhold Niebuhr Professor of Divinity (*Divinity School*)
Ioli Kalavrezou, Dumbarton Oaks Professor of Byzantine Art
Thomas Forrest Kelly, Morton B. Knafel Professor of Music
Beverly M. Kienzle, John H. Morison Professor of the Practice of Latin and Romance Languages, Lecturer on Medieval Christianity, Director of Language Studies (*Divinity School*)
Michael McCormick, Francis Goelet Professor of Medieval History
Catherine McKenna, Margaret Brooks Robinson Professor of Celtic Languages and Literatures
Stephen A. Mitchell, Professor of Scandinavian and Folklore
Katharine Park, Samuel Zemurray, Jr. and Doris Zemurray Stone Radcliffe Professor of the History of Science
Panagiotis Roilos, Professor of Modern Greek Studies and of Comparative Literature
James Simpson, Donald P. and Katherine B. Loker Professor of English, Harvard College Professor
Daniel L. Smail, Professor of History
Christine Smith, Robert C. and Marian K. Weinberg Professor of Architectural History (*Design School*)
R. J. Tarrant, Pope Professor of the Latin Language and Literature
Hugo van der Velden, Professor of History of Art and Architecture
Nicholas Watson, Professor of English
Jan Ziolkowski, Arthur Kingsley Porter Professor of Medieval Latin



The Standing Committee on Medieval Studies exists in order to promote and coordinate teaching and scholarship on medieval Europe and the Near East throughout the University, including Dumbarton Oaks in Washington, D.C. As a program committee within the Faculty of Arts and Sciences, it mounts a number of undergraduate and graduate courses each year, and coordinates a Secondary Field in Medieval Studies for PhD students and a Secondary Field in Medieval Studies for undergraduates. Although Harvard offers no PhD specifically in Medieval Studies, the committee has the authority to administer interdisciplinary PhDs in liaison with a regular departmental program. Working in cooperation with the GSAS Graduate Student Workshop, it also sponsors events and activities of interest to medievalists. Among these are the frequent meetings of the Medieval Studies Seminar on Monday afternoons, an occasional series of Special Seminars and conferences in Medieval Studies, the yearly reception for medievalists throughout the Boston area, and a graduate student Workshop in Medieval Studies. The committee has the further responsibility of fostering the Medieval Studies Library in Widener D. Its electronic mailing list and website are the most comprehensive guide to late antique, medieval, and Byzantine events at Harvard University and in the Boston area generally.

Specific questions concerning Medieval Studies on either the undergraduate or the graduate level and requests for the annual list of courses on medieval topics should be addressed to the Chairman of the Committee, Jeffrey Hamburger.

For more information and to receive the Medieval Studies Committee email on its frequent activities, contact medieval@fas.harvard.edu (and view its website at <http://medieval.fas.harvard.edu/icb/icb.do>).

For Undergraduates and Graduates

Medieval Studies 107. Authority and Invention: Medieval Art and Architecture

Catalog Number: 9420

Christine Smith (Design School)

Half course (fall term). M., W., at 10. EXAM GROUP: 3

Masterworks of art and architecture in Western Europe from the decline of Rome to the dawn of the Italian Renaissance. Explores the creative tension between the impulse to originality and the authority of classical models in the search for new art forms. Emphasis on representative works considered in their totality (architecture, painting, sculpture, and minor arts) as experiential wholes; and on the plurality of geographical and cultural contexts (Italy, Germany, France, and Spain).

Note: Offered jointly with the Graduate School of Design as 4358. Meets at the Graduate School of Design, Gund Hall. This course, when taken for a letter grade, meets the General Education requirement for Aesthetic and Interpretive Understanding or the Core area requirement for Literature and Arts B. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past.

[Medieval Studies 114. The Medieval Imagination: Visions, Dreams, and Prophecies]

Catalog Number: 3080

Nicholas Watson



Half course (fall term). Tu., Th., at 11, and a weekly section to be arranged.

The medieval imagination was the ambiguous mediator between the world and the human understanding, a mental locus in which either prophetic truths or dreams and diabolic deceptions might be apprehended. This course investigates dream poetry and visionary writing in the context of medieval psychological theory. Texts to be read include Boethius's *Consolation of Philosophy*, Dante's *Inferno*, Chaucer's *House of Fame*, *The Romance of the Rose*, and works by Augustine, Bonaventure, and others.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the General Education requirement for Aesthetic and Interpretive Understanding and also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

[Medieval Studies 117. Constitutional and Legal History of Medieval England]

Catalog Number: 5468

Charles Donahue, Jr. (Law School)

Half course (spring term). Hours to be arranged.

A survey of the ideas and events that shaped the structure of English law and governance from the Anglo-Saxon invasions to the Reformation Parliament. Topics include the formation of the kingdom of England, the emergence of institutions of royal governance, the relations between church and state, the development of Parliament, and the various institutional reactions to political conflict and social change.

Note: Expected to be given in 2011–12. Offered concurrently, but with a separate section, at the Law School.

Medieval Studies 119. Constitutional and Legal History of Medieval Continental Europe

Catalog Number: 4410

Charles Donahue, Jr. (Law School)

Half course (spring term). M., W., F., at 11; Th., at 4. EXAM GROUP: 4

A survey of the main outlines of continental European constitutional and legal history from the fall of the Roman Empire to the "Rise of absolutism" at the beginning of the 17th century. Focuses on the main expressions of European legal culture over this long period of time. In each period an effort is made to relate the types of law produced to the social, political, and religious history of the period.

Note: Offered concurrently, but with a separate section, at the Law School.

Primarily for Graduates

Medieval Studies 201 (formerly Medieval Studies 101). The Auxiliary Disciplines of Medieval History: Proseminar

Catalog Number: 3759

Michael McCormick

Half course (fall term). W., 1–3. EXAM GROUP: 6, 7

Familiarizes scholars in all areas of medieval studies with the research tools and techniques for advanced study of late antique and medieval evidence: Latin palaeography, codicology, hagiography, late Latin philology, late antique studies, numismatics, diplomatic.



***Medieval Studies 202 (formerly *Medieval Studies 102). Latin Palaeography and Manuscript Culture: Seminar**

Catalog Number: 7124 Enrollment: Limited to 12.

Beverly M. Kienzle (Divinity School)

Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17

Introduction to Latin manuscripts, their production and use. Taught in collaboration with William P. Stoneman, Houghton Library. Practical initiation to Latin palaeography, work with manuscripts, practice in transcription, and discussion of problems in textual criticism.

Note: Offered jointly with the Divinity School as 2223/4330.

Prerequisite: Completion of an intermediate Latin course or the equivalent.

***Medieval Studies 205. Latin Writings by and about Penitent Women in Medieval and Renaissance Italy - (New Course)**

Catalog Number: 51834 Enrollment: Limited to 15.

Beverly M. Kienzle (Divinity School)

Half course (spring term). Th., 2–4.

Translation and analysis of Latin writings by and about penitent women in medieval and renaissance Italy, including Umiliana dei Cerchi, Angela of Foligno, Umiltà of Faenza, Margherita of Cortona, Clare of Montefalco, and Catherine of Siena. Attention to related iconography, questions of gender, genre, voice, visionary authority, and imitation of the passion of Christ.

Note: Offered jointly with the Divinity School as 2205.

Medieval Studies 223. Preaching and Sermon in the Middle Ages

Catalog Number: 8726

Beverly M. Kienzle (Divinity School)

Half course (fall term). W., 1–4. EXAM GROUP: 6, 7, 8

Literary and historical survey of preaching and sermons from the early to the late Middle Ages, as practiced by clergy, religious women, lay people, dissidents. Readings in Latin; discussion of current research and methodological issues.

Note: Offered jointly with the Divinity School as 2226.

Prerequisite: Completion of an intermediate Latin course or the equivalent.

[Medieval Studies 227 (formerly Medieval Studies 127). Hildegard of Bingen and the Gospels: Seminar]

Catalog Number: 7365

Beverly M. Kienzle (Divinity School)

Half course (spring term). Hours to be arranged.

Reading of Hildegard of Bingen's *Expositiones evangeliorum* with attention to genre, exegetical and homiletic tradition, intertextuality, questions of gender and authority. Scholarship on Hildegard's works, medieval exegesis, monastic culture, medieval religious women.

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 2224/4331.

Prerequisite: Completion of an intermediate Latin course or the equivalent.

Graduate Course



***Medieval Studies 300hf (formerly Medieval Studies 300). Medieval Studies Interdisciplinary Workshop**

Catalog Number: 5321

Jeffrey F. Hamburger 3800

Half course (throughout the year). Hours to be arranged.

Focuses on dissertations in progress and other research topics of mutual concern.

Note: Enrollment is open to all graduate students.

Cross-listed Courses

For courses of additional interest, please see courses taught by members of the Committee at the Graduate School of Design, Harvard Divinity School, and Harvard Law School.

Core Curriculum

[Historical Study B-13. Charlemagne and the Birth of Medieval Civilization]

[Historical Study B-19. The Renaissance in Florence]

[Literature and Arts A-70. The Book of Job and the Joban Tradition](#)

[Literature and Arts C-20. The Hero of Irish Myth and Saga]

Celtic Languages and Literature

[Celtic 107. Early Irish History]

[Celtic 114. Early Irish Historical Tales](#)

[Celtic 137. Celtic Mythology]

[Celtic 138. Narrative Traditions of Medieval Wales]

[Celtic 184. The Táin](#)

[Celtic 189. The Gaelic Learned Tradition]

[Celtic 194. Celtic Bards and Their Poems - \(New Course\)](#)

[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 225a. Medieval Welsh Language and Literature](#)

[Celtic 225b. Medieval Welsh Prose and Poetry](#)

[Celtic 226r. Readings in Middle Welsh]

[Celtic 227. Seminar: Welsh Bardic Poetry]

The Classics

[Latin Bam \(formerly Latin 3m\). Latin Prose Selections \(Late Antique and Medieval\)](#)

[Latin Bbm \(formerly Latin 4m\). Introduction to Latin Poetry \(Late Antique and Medieval\)](#)

[Medieval Greek 115ar. Introduction to Byzantine Greek](#)

[Medieval Latin 115. The Cambridge Songs and Medieval Lyric](#)

English



[*English 90sx. Gender Difference and Sexual Relation in Medieval Literature - \(New Course\)](#)

[English 115b. Chaucer: The Canterbury Tales](#)

[*English 211. The Making of the Early English Canon 1350-1950: Graduate Seminar - \(New Course\)](#)

***English 300hf. Old and Middle English: Doctoral Conference**

Folklore and Mythology

[*Folklore and Mythology 98a. History and Theory of Folklore Methodology](#)

Freshman Seminars

[*Freshman Seminar 37i. Love, Medieval Style](#)

[*Freshman Seminar 39g. The Book of Hours: Picturing Prayer in the Middle Ages](#)

General Education

[Aesthetic and Interpretive Understanding 16. Openings: The Illuminated Manuscript]
[Aesthetic and Interpretive Understanding 42. Literature and Revolution: Great Books in Moments of Cultural Transformation](#)

[Aesthetic and Interpretive Understanding 43 (formerly Literature and Arts B-35). Visual Culture of the Ottoman Empire Between East and West (15th - 17th Centuries)]
[Culture and Belief 20 \(formerly Historical Study A-27\). Reason and Faith in the West](#)
[Culture and Belief 24. Gregorian Chants]

[Culture and Belief 27 \(formerly Jewish Studies 55\). Among the Nations: Jewish History in Pagan, Christian and Muslim Context](#)

[Culture and Belief 38 (formerly Literature and Arts C-28). Icon, Ritual, Text: Reading the Culture of Medieval Rus']

Germanic Languages and Literatures

[Scandinavian 150. The Vikings and the Nordic Heroic Tradition]

[Scandinavian 160a. Old Norse Language, Literature, and Culture: The Viking Legacy]

[Scandinavian 160br. Old Norse Language, Literature, and Culture: Mythology]

Government

[Government 1060. Ancient and Medieval Political Philosophy](#)

History

[*History 71b \(formerly *History 1942\). The European Renaissance and Reformation, 1350-1650](#)

[*History 80b (formerly *History 1122). Persons and Things in Medieval Europe]

[*History 80e. From Gaul to France: The History, Archaeology and Science of the Fall of](#)



[the Roman Empire - \(New Course\)](#)

[*History 81b. Book History]

[*History 81f (formerly History 1127). Women's Voices in Medieval and Early Modern Europe]

[History 1040 (formerly History 1111). The Fall of the Roman Empire]

[History 1055 (formerly History 1121). Vengeance, Hatred, and Law in Premodern Europe]

[History 1060. Europe and Its Borders, 950-1550](#)

[History 1080 (formerly History 1150). The Jews in Muslim and Christian Spain]

[History 1114 (formerly History 1514). Early Modern Eastern Europe (1450-1795)]

[History 1166 (formerly *History 71a). Marriage, Sex, and Family in Western Europe, 1250-1750: Conference Course]

[History 1301 \(formerly History 20b\). Western Intellectual History: The Middle Ages to the Seventeenth Century](#)

[History 1877a \(formerly History 1877\). History of the Near East, 600-1055](#)

[History 1877b (formerly *History 78b). History of the Near East, 1055-1500: Conference Course]

[History 1878a. Ottoman State and Society I (1300–1550)]

[*History 2050 \(formerly *History 2101\). Medieval Societies and Cultures: Proseminar](#)

[History 2055 (formerly History 2122). Early Medieval History: Seminar: Communications in the Early Medieval Mediterranean]

[History 2060 \(formerly History 2125\). Topics in Medieval and Early Global History: Seminar](#)

[History 2080 \(formerly History 2126\). Medieval Law](#)

[History 2111. Classical and Neo-Latin Literature in the Italian Renaissance: Seminar]

[*History 2112 \(formerly *History 2473\). Latin Texts of the Italian Renaissance:](#)

[Proseminar](#)

[History 2884. Topics in Ottoman Social and Cultural History: Seminar](#)

[History 2885. Introduction to Archival Research in Ottoman History: Proseminar](#)

[History 2886. Topics in Islamic History: Seminar](#)

[Societies of the World 41 \(formerly History 1050\). Medieval Europe](#)

History and Literature

[*History and Literature 97. Tutorial — Sophomore Year](#)

History of Art and Architecture

[History of Art and Architecture 12m. Monuments and Cities of the Islamic World: An Introduction]

[History of Art and Architecture 55k. Northern Renaissance]

[History of Art and Architecture 120n. Art of the Timurids in Greater Iran and Central Asia]

[History of Art and Architecture 141k. Rome, Constantinople, Ravenna in the Light of Imperial Rule : Proseminar](#)

[History of Art and Architecture 143r \(formerly *History of Art and Architecture 143m\).](#)



The Art of the Court of Constantinople : Proseminar

[*History of Art and Architecture 146x. The Art of Devotion]

[History of Art and Architecture 151k. Italian Artists as Competitors, ca. 1300-1700]

[History of Art and Architecture 152. Italian Renaissance Art]

[History of Art and Architecture 155p. Jan van Eyck and the Rise of Painting]

***History of Art and Architecture 229p. Word and Image in Persian Painting : Seminar**

***History of Art and Architecture 240r. Topics in Byzantine Art : Materials and Materiality in Byzantine Art**

[*History of Art and Architecture 241n. Image-Text-Context]

***History of Art and Architecture 242. Issues of Interpretation in Medieval Art : Seminar**

History of Art and Architecture 245x. Jan van Eyck's Renaissance : Seminar - (New Course)

[History of Art and Architecture 252k. The Age of Albrecht Durer]

[*History of Art and Architecture 254p. The Invention of Portraiture]

History of Science

History of Science 107. History of Medieval Science

History of Science 108. Bodies, Sexualities, and Medicine in the Medieval Middle East - (New Course)

History of Science 111. Two Scientific Revolutions: From the Classical Age of Islamic Sciences to the Scientific World of Early Modern Europe - (New Course)

History of Science 112. Health, Medicine and Healing in Medieval and Renaissance Europe

History of Science 113. Crusades, Plagues and Hospitals: Medicine and Society in the Islamic Middle Ages - (New Course)

[History of Science 117. Science, Philosophy, and Religion in Late Antiquity and the Middle Ages]

***History of Science 206r. Physical Atomism in Antiquity: Epicurus and Lucretius: Seminar**

[*History of Science 207r. Late Medieval and Early Modern Atomism: Seminar - (New Course)]

History of Science 209. Science and Islam: Debates, Approaches and Controversies: Seminar - (New Course)

History of Science 215r. Science and Culture in Medieval and Early Modern Europe: Seminar

[History of Science 297r. Topics in the History of Medieval Latin Science]

[*History of Science 298r. The Establishment of Medieval Latin Scientific and Philosophical Texts: Seminar]

Linguistics

[Linguistics 158r. From Indo-European to Old Irish]

[Linguistics 168. Introduction to Germanic Linguistics]

[Linguistics 247. Topics in Germanic Linguistics]

Linguistics 250. Old Church Slavonic

[Linguistics 251. Advanced Readings in Church Slavonic Texts]

[Linguistics 252. Comparative Slavic Linguistics]



Literature and Comparative Literature

[*Comparative Literature 211. Mysticism and Literature: Seminar](#)

[Comparative Literature 251. Literary Criticism and Theory: Antiquity to the Renaissance]

[Comparative Literature 252. The Literatures of Medieval Iberia: Approaches and Debates in their Comparative Study]

[Literature 157 \(formerly Comparative Literature 111\). From Type to Self in the Middle Ages](#)

[Literature 163. Jewish Languages and Literature]

Music

[Music 1a. Introduction to Western Music from the Middle Ages to Mozart](#)

[Music 191r. Topics in Medieval and Renaissance Music: Proseminar](#)

[Music 212r. Chant: Seminar]

[Music 213r. Topics in Medieval Polyphony]

[Music 214r. Johannes Tinctoris and 15th-Century Music: Seminar](#)

Near Eastern Languages and Civilizations

[Arabic Ba \(formerly Arabic 120a and 121a\). Intermediate Arabic I](#)

[Arabic 150r. History of Classical Arabic Literature: Seminar]

[Arabic 160r. Readings in Arabic Historians, Geographers, and Biographers](#)

[Arabic 240a. Classical Arabic Philology](#)

[Arabic 246r. Andalus, Sicily, and the Maghrib in Literary and Cultural Texts: Seminar]

[Arabic 249r. Arabic Philosophical Texts: Seminar]

[Arabic 250r. Arabic Theological Texts: Seminar](#)

[Armenian 120. Armenian Magical Texts]

[Hebrew 160. The Origins and Development of the Classical Jewish Liturgy](#)

[Hebrew 217. The Medieval Torah Commentary: A Practical Introduction: Seminar]

[Jewish Studies 135. Jewish-Arab Encounters: the Classical Age](#)

[Jewish Studies 168. Eighth-Century Prophets]

The Study of Religion

[Religion 45. Introduction to Christian Thought](#)

[Religion 1402. Early Christian Thought 2: The Latin Tradition]

[Religion 1434. History of Western Christianity, 150-1100]

[Religion 1437. History of Western Christianity: 1100–1500]

[Religion 1446. Recent Trends in Medieval Ecclesiastical Historiography]

[Religion 1450. History of Christian Thought: The Medieval West]

Romance Languages and Literatures



[French 70a. Introduction to French Literature I: From the Middle Ages to Modernity](#)

[French 112. From Singers to Poets: Lyric Poetry in Medieval France \(12th to 15th Century\)](#)

[French 200 \(formerly French 100\). Language, Literature, Style](#)

[Italian 141. Renaissance Epic]

[Romance Studies 79. Romance Languages and Cultures in Comparative Perspective]

[Spanish 70a. Heroes, Rogues, and Significant Others: Voices from Medieval and Early Modern Spain](#)

[Spanish 110. Hispanic Literature: The Middle Ages](#)

[Spanish 201. Historia de la lengua española]

Slavic Languages and Literatures

[Slavic 201. Introduction to East Slavic Languages](#)

[Slavic 280r. Slavic Culture: Seminar]

[Slavic 291. Problems in the History of Early Ukrainian Literature]

Middle Eastern Studies

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Committee on Middle Eastern Studies

Baber Johansen, Professor of Islamic Studies (*Divinity School*) (*Chair*)

Ali S. Asani, Professor of Indo-Muslim and Islamic Religion and Cultures

Steven C. Caton, Professor of Contemporary Arab Studies

Khaled El-Rouayheb, Assistant Professor of Islamic Intellectual History

Luis M. Girón Negrón, Professor of Romance Languages and Literatures and of Comparative Literature

William Albert Graham, Murray A. Albertson Professor of Middle Eastern Studies

William E. Granara, Professor of the Practice of Arabic on the Gordon Gray Endowment

Michael Herzfeld, Professor of Anthropology

Cemal Kafadar, Vehbi Koc Professor of Turkish Studies

Arthur Kleinman, Esther and Sidney Rabb Professor of Anthropology in the Faculty of Arts and Sciences and Professor of Medical Anthropology in the Faculty of Medicine

Mohsen Mostafavi, Alexander and Victoria Wiley Professor of Design (*Design School*)

Roy Mottahedeh, Gurney Professor of History (*on leave fall term*)

Afsaneh Najmabadi, Francis Lee Higginson Professor of History and Professor of the Studies of Women, Gender, and Sexuality



Gülru Necipoglu-Kafadar, Aga Khan Professor of Islamic Art
 E. Roger Owen, A. J. Meyer Professor of Middle East History (*on leave spring term*)
 A. Hashim Sarkis, Aga Khan Professor of Landscape Architecture and Urbanism in Muslim Societies (*Design School*)

The Center for Middle Eastern Studies was established for the purpose of integrating and reinforcing instruction and research in the languages, literatures, history, economics, and cultures of North Africa, the Middle East, and Islamic Central and South Asia, with the emphasis on the modern period. The Committee on Middle Eastern Studies is the degree committee that administers programs offered through the Center. To achieve its goals, the Center cooperates with departments within the Faculty of Arts and Sciences and with other faculties that have Middle Eastern interests, other regional studies centers, and various libraries and museums that hold collections related to Middle Eastern and Islamic studies. The Center's aim is to offer a comprehensive program to provide integrated training for those planning careers in education, government service, or private industry, and to support research on the area.

The following degree programs are offered through the Center: Regional Studies Program—Middle East (AM): The program for this degree requires two years of study, leading to an AM. It seeks to give the student both a broad background and a special competence in selected fields of Middle Eastern studies. Each student's needs and interests, as well as previous experience and qualifications, are taken into account in planning his or her course of study. This program is comparable to other regional studies programs, such as those for Russia and East Asia.

Joint Programs for the PhD: The Faculty of Arts and Sciences has approved joint programs with other faculty departments for the degree of PhD in Middle Eastern studies and in the fields of anthropology, history, or history of art and architecture. A candidate for a joint PhD degree is usually expected to have completed an AM program in Middle Eastern studies or another relevant field, at Harvard or elsewhere, prior to admission as a doctoral candidate. Joint or concurrent degrees with other departments and faculties are possible on an *ad hoc* basis.

Languages: Competency in one or more of the languages of the Middle East is critical to advanced studies in this field. The Master's program requires all students to attain a reading and speaking competence, at least at the intermediate level, in one of the major modern Middle Eastern languages: Arabic, Hebrew, Persian, or Turkish. Students who already have an adequate knowledge of one such language, and native speakers, will be required to study a second language. The PhD programs vary in their language requirements. In most cases, students must attain a thorough knowledge of a modern Middle Eastern language (see above), as well as a reading knowledge of one of the European languages: German, French, Italian, or Russian. In the History and Middle Eastern Studies Program, a written exam will be required in the language of the candidate's primary research, covering both primary and secondary sources in that language. As in the Master's program, native speakers of Middle Eastern languages will be required to attain competence in a second Middle Eastern language. (For specific details on language requirements and language proficiency examinations, see the degree supplement *Degree Programs in Middle Eastern Studies*. Please note that the departments involved in the joint PhD programs, as well as the Committee on Middle Eastern Studies, at times revise their language requirement policies. Students are expected to keep in touch with their advisors and relevant



language instructors at all times so they may be informed of possible changes to those requirements.)

Courses: The Center for Middle Eastern Studies publishes a list of Middle Eastern-related courses on its website. 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*.

Middle East Program

***Middle Eastern Studies 299b. Master's Thesis Reading and Research**

Catalog Number: 33251

Susan M. Kahn and members of the Committee

Half course (fall term; repeated spring term). Hours to be arranged.

Note: Supervised reading, research and writing of master's thesis. Generally taken by master's students in the final semester of the AM program in Regional Studies - Middle East.

Mind, Brain, and Behavior

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

The 2010-11 membership of this committee has not yet been finalized. Complete membership information for 2010-11 will be posted as soon as it becomes available.

Faculty of the Committee on Mind, Brain, and Behavior

Other Faculty Offering Instruction in Mind, Brain, and Behavior

The Committee on Mind, Brain, and Behavior is an interdisciplinary group of scholars appointed



to coordinate the teaching of neuroscience and related fields among Harvard's departments. Working closely with the University's Mind/Brain/Behavior Interfaculty Initiative, the Committee is designed to advance knowledge of neuroscience at multiple levels of analysis ranging from the molecular events within individual neurons to the behavior of organisms (including humans) in a wider environmental and social context. The Committee coordinates the wide and varied course offerings that address methods, findings, and theory in neuroscience; helps students learn of opportunities within 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, specialized tracks are currently available in seven concentrations: Computer Science, History and Science, Human Evolutionary Biology, Linguistics, Neurobiology, Philosophy, and Psychology. MBB also offers a secondary field. For specific track and secondary field requirements, consult <http://mbb.harvard.edu>.

Foundation courses are required or recommended in all tracks so that all MBB students can interact. The foundation courses include Science of Living Systems 20, Psychological Science, MCB 80, Neurobiology of Behavior; and one of several designated interdisciplinary seminars listed below. The track program, which results in a Certificate in Mind/Brain/Behavior, also includes a junior symposium, and senior thesis workshops.

Primarily for Undergraduates: Foundation Courses

**[MCB 80. Neurobiology of Behavior](#)
[Science of Living Systems 20. Psychological Science](#)**

Primarily for Undergraduates

[*Mind, Brain, and Behavior 90r. Supervised Research: Topics in Mind/Brain/Behavior](#)

Catalog Number: 8784

Sean D. Kelly and MBB Faculty

Half course (fall term; repeated spring term). Hours to be arranged.

Supervised individual research leading to a tutorial paper.

Note: Application required; consult MBB website.

Primarily for Undergraduates: Interdisciplinary Seminars

Students in the Neurobiology and Psychology Mind/Brain/Behavior tracks must consult with their concentration regarding which seminars will count.

[*Mind, Brain, and Behavior 92 \(formerly Psychology 987d\). A Systems Neuroscience Approach to Conscious Perceptual Experience](#)

Catalog Number: 7390 Enrollment: Limited. Preference to juniors in MBB tracks or MBB secondary field.

Sean D. Kelly and members of the Committee

Half course (spring term). M., 2–4. EXAM GROUP: 7, 8



Join renowned neuroscientists from Harvard and elsewhere who will lead highly interactive seminars addressing core problems underlying the emergence of conscious visual experience. Topics include the requisite neuronal representations of the content of visual images, their localization within extrapersonal space and the sense of ownership of such images by a self. Subsidiary topics include selective attention, the binding problem, binocular rivalry, change blindness, recursive neuronal networks and distinction between phenomenal and access consciousness.

[*Mind, Brain, and Behavior 93 (formerly Psychology 987f). The Biology of Conscious States: Waking, Sleeping, and Dreaming]

Catalog Number: 5017 Enrollment: Limited. Preference to juniors in MBB tracks or MBB secondary field.

Robert A. Stickgold (Medical School)

Half course (spring term). Tu., 1–3. EXAM GROUP: 15, 16

Focuses on waking, sleeping, and dreaming as examples of conscious states in both humans and animals. Original papers and books by Allan Hobson (*The Dreaming Brain*) and Antonio Damasio (*The Feeling of What Happens*) form the background for discussions of waking, sleeping, and dreaming from the perspectives of neurology, physiology, psychology, and cognitive neurosciences. Discusses various approaches to understanding the functions of sleep and wake (consciousness) and reviews several theories on the topic.

Note: Expected to be given in 2011–12.

***Mind, Brain, and Behavior 94 (formerly Psychology 987g). Theories of Violence**

Catalog Number: 3767 Enrollment: Limited. Preference to juniors in MBB tracks or MBB secondary field.

Alan A. Stone (Law School, Medical School)

Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17

Considers how culture, law, and science construct violence. Reviews clinical examples of violence (videotapes of a serial killer, a sexually violent predator, a case of maternal infanticide, and violence by law enforcement) and the responses of the courts and the criminal justice system. Then critically examines the spectrum of scientific theories and psychiatric diagnoses that seek to delineate and explain human violence.

***Mind, Brain, and Behavior 95 (formerly Psychology 987h). Addiction, Choice, and Motivation**

Catalog Number: 4890 Enrollment: Limited. Preference to juniors in MBB tracks or MBB secondary field.

Gene M. Heyman (Medical School)

Half course (fall term). Th., 4–6. EXAM GROUP: 18

Seeks to better understand addiction and uses it as vantage point to understand voluntary behavior. Drug use and addiction involve genetic factors, drug pharmacology, principles governing choice, and the culturally universal voluntary/involuntary distinction. Topics include characteristics of addiction, neuronal communication, brain plasticity, OCD, genetic influences on behavior and gene expression, motivation and reward, choice, popular and scientific understanding of voluntary behavior, and the role of cultural values in drug consumption and individual choice.



***Mind, Brain, and Behavior 96 (formerly Psychology 987i). The Science of Happiness**

Catalog Number: 2517 Enrollment: Limited. Preference to juniors in MBB tracks or MBB secondary field.

Nancy Lee Etcoff (Medical School)

Half course (spring term). Th., 1–3. EXAM GROUP: 15, 16

Focuses on the science of happiness, integrating findings from positive psychology, psychiatry, behavioral genetics, neuroscience, and behavioral economics. Begins with a brief history of ideas on happiness from Aristotle to Kahneman. Considers the genetics of happiness including the notion of a biologically determined hedonic set point, the brain's pleasure circuitry, and the mind's power to frame events positively, a tool used in cognitive therapies. Questions whether pleasure and happiness are our purpose.

***Mind, Brain, and Behavior 97z. Interspecies Communication: Can We Really Talk to the Animals - and What Would It Mean?**

Catalog Number: 34989 Enrollment: Limited. Preference to juniors in MBB tracks or MBB secondary field.

Irene Pepperberg

Half course (spring term). Tu., 3–5.

Teaching animals elements of human language was once considered cutting-edge science, but now receives little more than a chapter in comparative psychology textbooks. Considers rationale behind the original studies. Examines their successes and failures, and the political and scientific reasons most projects have ended. Would renewed interest in animal language re-energize studies on similarities and differences in human and nonhuman communicative behavior? What would we learn about the evolution of language?

***Mind, Brain, and Behavior 98a. Personality Theory at Harvard I - (New Course)**

Catalog Number: 58572 Enrollment: Limited. Preference to juniors.

Lawrence J. Friedman

Half course (spring term). W., 7–9 p.m.

Covers Harvard personality theorists from William James at the beginning of the twentieth century to Henry Murray in the middle decades. James merged psychology, physiology, theology, and philosophy in his formulation of pragmatism. Murray, director of the Harvard Psychological Clinic, concretized personality theory with clinical treatment of Harvard students, recruited innovative theorist/clinicians like Erik Erikson, and related his theoretical formulations to Melville's writings. Between James and Murray, course examines transitional figures like Gordon Allport and Helen Deutsch.

***Mind, Brain, and Behavior 98z. Love, Hate, and Play - (New Course)**

Catalog Number: 36854 Enrollment: Preference to juniors in MBB tracks or MBB secondary field.

Lawrence J. Friedman

Half course (fall term). W., 2–4. EXAM GROUP: 7, 8

Considers research, literature, and films addressing interconnections among love, hate, and play. Goethe's "Faust" emphasizes hatred but involves a type of love that is sometimes playful. Twain's "Huckleberry Finn" moves quickly from play into love and hate. In psychology and neuroscience, the interconnection is sometimes stated more explicitly (work of Aaron Beck, Jan



Panskeep, Erik Erikson). Film classics (Bergman's "Wild Strawberries," Chaplin's "Modern Times") are often sustained by the interconnections.

Additional Interdisciplinary Seminars

[History of Science 139. The Postgenomic Moment - \(New Course\)](#)

[*History of Science 140. Disease and Society](#)

[History of Science 173. The Abnormal Mind - \(New Course\)](#)

[History of Science 175. Minds, Machines, and Computers - \(New Course\)](#)

[Human Evolutionary Biology 1312. Human Sexuality: Research and Presentation Seminar](#)

[*Human Evolutionary Biology 1375. Testosterone and Human Behavior](#)

[Human Evolutionary Biology 1383. The Evolution of Altruism, Selfishness and Spite](#)

[*Neurobiology 95hfd \(formerly *Biology 95hfd\). Problem Solving in Neuroscience: An Interactive Case-Based Online Network \(ICON\)](#)

[*Neurobiology 95hfe. Synaptic Plasticity: How the Brain Learns, Remembers and Adjusts to Its Environment](#)

[*Neurobiology 95hfg. More than Glue: Glial Cells in Health and Neurological Disease](#)

[*Neurobiology 95hfh. Bird Song and Human Language: Learning from the Birds](#)

[*Neurobiology 95hfj \(formerly *Biology 95hfj\). The Sleeping Brain](#)

[\[*Neurobiology 95hfk \(formerly *Biology 95hfk\). Mechanisms of Neurological Disease\]](#)

[*Neurobiology 95hfs. The Neurobiology of Stress - \(New Course\)](#)

[*Neurobiology 95hft. The Electronics of the Brain - \(New Course\)](#)

[*Neurobiology 95hfu. Building a Brain - \(New Course\)](#)

[*Neurobiology 95l. Neuropharmacology: Principles and Future Prospects](#)

[*Philosophy 157z. Perception, Prediction and Action: Proseminar - \(New Course\)](#)

Courses for Undergraduates and Graduates

[Culture and Belief 34 (formerly Historical Study A-87). Madness and Medicine: Themes in the History of Psychiatry]

[Neurobiology 209. Neurobiology of Disease]

[Science of Living Systems 15 \(formerly Science B-60\). Origins of Knowledge](#)

Additional Courses

[*BCMP 213. Behavioral Pharmacology]

[BCMP 230. Principles and Practice of Drug Development](#)

[Computer Science 181. Intelligent Machines: Perception, Learning, and Uncertainty](#)

[Computer Science 182. Intelligent Machines: Reasoning, Actions, and Plans](#)

[Computer Science 187. Computational Linguistics](#)

[Computer Science 228. Computational Learning Theory](#)

[Computer Science 229r (formerly Computer Science 229). Topics in the Theory of Computation]

[*Computer Science 266. Biologically-Inspired Distributed and Multi-Agent Systems]

[Computer Science 283. Computer Vision](#)

[Computer Science 285. Multi-Agent Systems](#)



[\[Computer Science 287r. Natural Language Processing\]](#)
[Economics 1030. Psychology and Economics](#)
[Economics 1032. The Packing Problem: The Behavioral Economics of Scarcity](#)
[\[Economics 1052. Advanced Game Theory\]](#)
[Empirical and Mathematical Reasoning 11. Making Sense: Language, Logic, and Communication](#)
[Empirical and Mathematical Reasoning 17 \(formerly Quantitative Reasoning 22\). Deductive Logic](#)
[Engineering Sciences 53. Quantitative Physiology as a Basis for Bioengineering](#)
[Engineering Sciences 145. Physiological Systems Analysis](#)
[Engineering Sciences 149. Neural Control of Movement](#)
[\[Engineering Sciences 157. Speech and Audio Processing\]](#)
[\[Engineering Sciences 226r. Special Topics in Neural Engineering: Learning and Memory in Neural Systems\]](#)
[Engineering Sciences 249. Advanced Neural Control of Movement](#)
[\[Government 1093. Ethics, Biotechnology, and the Future of Human Nature\]](#)
[\[*History of Science 145 \(formerly *History of Science 90m\). Medicine and Deviance: Conference Course\]](#)
[\[History of Science 150. History of Social Science\]](#)
[\[*History of Science 171. Narrative and Neurology\]](#)
[\[History of Science 174. Critical Experiments in the Human Sciences\]](#)
[\[*History of Science 176. Brainwashing and Modern Techniques of Mind Control\]](#)
[History of Science 178. Discovering the Mind - \(New Course\)](#)
[\[History of Science 238. Rethinking the Darwinian Revolution: Seminar\]](#)
[History of Science 240. The Body in Health and Disease: Seminar](#)
[\[History of Science 243. The Making of Modern Medicine: Seminar\]](#)
[\[*History of Science 253. Bioethics, Law, and the Life Sciences \]](#)
[\[*History of Science 294. Tools, Instruments, and Extended Cognition\]](#)
[Human Evolutionary Biology 1310. Hormones and Behavior](#)
[Human Evolutionary Biology 1318. BioDemography - \(New Course\)](#)
[Human Evolutionary Biology 1325. Evolution of Technology](#)
[Human Evolutionary Biology 1330. Primate Social Behavior](#)
[Human Evolutionary Biology 1331. Comparison and Adaptation in Primate Evolutionary Biology](#)
[Human Evolutionary Biology 1333. Primate Disease Ecology](#)
[\[Human Evolutionary Biology 1335. Behavioral Ecology of Chimpanzees\]](#)
[Human Evolutionary Biology 1371. Paternity, Fidelity and Parenting](#)
[*Human Evolutionary Biology 1418. Endocrinology and Behavior: Research Seminar](#)
[Human Evolutionary Biology 1435. Primate Ecology and Evolution - \(New Course\)](#)
[\[*Human Evolutionary Biology 1450. Human Evolutionary Genetics\]](#)
[Human Evolutionary Biology 1455. Primate Genetics](#)
[*Human Evolutionary Biology 1463. Molecular Evolution of the Primates](#)
[\[Human Evolutionary Biology 1490. Primate Evolution\]](#)
[*Human Evolutionary Biology 2312. Current Topics in Human Evolutionary Genetics](#)
[\[Human Evolutionary Biology 2430. Behavioral Biology Seminar\]](#)
[Life Sciences 2. Evolutionary Human Physiology and Anatomy](#)



[Life Sciences 60 (formerly MCB 60). Ethics, Biotechnology, and the Future of Human Nature]

[Linguistics 83. Language, Structure, and Culture](#)

[Linguistics 88. Language and Cognition]

[Linguistics 110. Introduction to Linguistics](#)

[Linguistics 112a. Introduction to Syntactic Theory](#)

[Linguistics 112b. Intermediate Syntax](#)

[Linguistics 114. Introduction to Morphology]

[Linguistics 115a. Introduction to Phonetics and Phonology](#)

[Linguistics 115b. Intermediate Phonology](#)

[Linguistics 116a. Introduction to Semantics](#)

[Linguistics 116b. Intermediate Semantics](#)

[Linguistics 132. Psychosemantics](#)

[Linguistics 146. Syntax and Processing]

[Linguistics 148. Language Universals]

[Linguistics 188r. Biolinguistics]

[Linguistics 202r. Advanced Syntax](#)

[Linguistics 205r. The Syntax-Semantics Interface](#)

[Linguistics 207r. Topics in Semantics]

[Mathematics 153. Mathematical Biology-Evolutionary Dynamics]

[MCB 105. Systems Neuroscience](#)

[MCB 115. Cellular Basis of Neuronal Function](#)

[*MCB 129. Molecular Genetics of Neural Development and Behavior]

[MCB 131. Computational Neuroscience]

[*MCB 145 \(formerly *Neurobiology 95hfb\). Neurobiology of Perception and Decision Making](#)

[*MCB 146 \(formerly *Neurobiology 95c\). Experience-Based Brain Development: Causes and Consequences](#)

[MCB 147. Brain Circuits]

[MCB 186. Circadian Biology: From Cellular Oscillators to Sleep Regulation](#)

[MCB 206. Introduction to Connectomics]

[Microbiology 213. Social Issues in Biology]

[Neurobiology 130 (formerly Psychology 1205). Drugs and the Brain: From Neurobiology to Ethics]

[Neurobiology 200. Introduction to Neurobiology](#)

[Neurobiology 204. Neurophysiology of Central Circuits](#)

[Neurobiology 207. Developmental Neurobiology](#)

[*Neurobiology 220. Cellular Neurophysiology](#)

[Neurobiology 221. Molecular Neurobiology](#)

[OEB 53 \(formerly Biological Sciences 53\). Evolutionary Biology](#)

[OEB 57 \(formerly Biological Sciences 57\). Animal Behavior](#)

[OEB 105 \(formerly OEB 205\). Neurobiology of Motor Control](#)

[OEB 145. Genes and Behaviors]

[OEB 174r. Topics in Behavioral Ecology]

[OEB 223. Topics in Neurogenetics]

[Pathology 205. Molecular Biology of the Auditory System]



[Philosophy 3. Introduction to the Problems of Philosophy](#)
[Philosophy 8. Introduction to Early Modern Philosophy](#)
[\[Philosophy 137. The Later Philosophy of Wittgenstein\]](#)
[\[Philosophy 144. Logic and Philosophy\]](#)
[Philosophy 147. Philosophy of Language](#)
[Philosophy 149z. Philosophy of Science](#)
[Philosophy 156. Philosophy of Mind](#)
[Physics 136. Physics of Medical Imaging](#)
[\[Physics 141. The Physics of Sensory Systems in Biology\]](#)
[Psychology 13. Cognitive Psychology](#)
[Psychology 14 \(formerly Psychology 1301\). Cognitive Neuroscience](#)
[Psychology 15. Social Psychology](#)
[*Psychology 16. Developmental Psychology: Psychology of Early Childhood](#)
[Psychology 18. Abnormal Psychology](#)
[*Psychology 950. Psychology Live](#)
[Psychology 1005. Health Psychology - \(New Course\)](#)
[Psychology 1006. Psychology of Morality - \(New Course\)](#)
[*Psychology 1051. MATLAB: Introduction to Programming for Behavioral Research - \(New Course\)](#)
[*Psychology 1052. The application of fMRI in cognitive neuroscience research - \(New Course\)](#)
[\[*Psychology 1304. Cognitive Neuropsychology\]](#)
[*Psychology 1307. Brain Genomics: Seminar](#)
[*Psychology 1352. Foundations of Cognitive Neuroscience Research](#)
[*Psychology 1353. Music and Language - \(New Course\)](#)
[*Psychology 1357. Puzzles of the Mind: Humans, Animals, Robots: Seminar](#)
[\[Psychology 1430. Human Memory and Amnesia\]](#)
[*Psychology 1452. The Human Face - \(New Course\)](#)
[*Psychology 1501. Social Psychology of Organizations](#)
[\[Psychology 1505. Social Cognition\]](#)
[Psychology 1507. Group Decision Making - \(New Course\)](#)
[*Psychology 1510. Social Function of Emotion - \(New Course\)](#)
[*Psychology 1551. Mind Perception](#)
[Psychology 1604. Social Development](#)
[*Psychology 1607a. Cognitive Development, Education, and the Brain: Theory and Practice - \(New Course\)](#)
[*Psychology 1607b. Cognitive Development, Education, and the Brain: Mind, Brain, and Education - \(New Course\)](#)
[*Psychology 1651r \(formerly *Psychology 1651\). Language Development: Undergraduate Laboratory Course: Research Seminar](#)
[*Psychology 1652r. Laboratory in Early Cognitive Development](#)
[\[*Psychology 1654. Topics in Cognitive Development: Seminar\]](#)
[*Psychology 1655r. Conceptual Development: Undergraduate Laboratory Course](#)
[\[Psychology 1701. Personality Psychology\]](#)
[*Psychology 1750 \(formerly *Psychology 2751\). Free Will, Responsibility, and Law](#)
[Psychology 1801. Anxiety Disorders](#)



[Psychology 1802. Childhood Trauma - \(New Course\)](#)

[*Psychology 1851. Clinical Psychology: Science and Practice](#)

[*Psychology 1853. Self-Destructive Behaviors]

[Psychology 1854. Schizophrenia: Seminar]

[*Psychology 1861. Developmental Psychopathology](#)

[*Psychology 2050. History of Psychology: Seminar]

[*Psychology 2110. Emotional Development: Biology, Relationships, Culture](#)

[*Psychology 2150r \(formerly *Psychology 2150\). Social Cognitive Development: Research Seminar](#)

[*Psychology 2170. Developmental Proseminar]

[*Psychology 2185. Unconscious Processing in Vision and Action]

[*Psychology 2190. Topics in Language Acquisition]

[*Psychology 2280. Language and Human Nature]

[*Psychology 2335r. Concepts, Actions, Objects \(CAOs\): Research Seminar](#)

[*Psychology 2352r. Laboratory for Social Cognitive Neuroscience](#)

[*Psychology 2354r. Advanced Laboratory in Cognitive Neuroscience](#)

[*Psychology 2356r. Visual Cognition: Research Seminar](#)

[*Psychology 2358r. Memory: Research Seminar](#)

[*Psychology 2381. Hot Topics in Cognitive Science and Neuroscience]

[*Psychology 2436r. Social Neuroscience and Psychopathology Laboratory](#)

[*Psychology 2445. Psychological Treatment Research]

[Psychology 2446r. Clinical Research Laboratory](#)

[*Psychology 2450. Affective and Social Neuroscience](#)

[Psychology 2461r. Laboratory for Clinical and Developmental Research](#)

[*Psychology 2464. Research Methods in Child & Adolescent Clinical Psychology]

[*Psychology 2480. Human Neuropsychology/Neuroanatomy: Seminar](#)

[*Psychology 2530r. Mental Control: Research Seminar](#)

[*Psychology 2553r. Decision Making and Negotiation: Research Seminar](#)

[*Psychology 2554r. Moral Cognition: Research Seminar](#)

[*Psychology 2555r. Emotion and Decision Making: Research Seminar]

[*Psychology 2570r. Intergroup Relations: Research Seminar](#)

[*Psychology 2580r. Affective Forecasting: Research Seminar](#)

[*Psychology 2640r. The Understand Seminar](#)

[*Psychology 2650. Behavioral Approaches to Decision Making and Negotiation]

[*Psychology 2651. Social Cognition from a Developmental and Evolutionary Perspective - \(New Course\)](#)

[*Psychology 2660r. Research Seminar in Mindfulness Theory](#)

[*Psychology 2670a. Decision Making and the Psychology of Possibility](#)

[*Psychology 2670b. Decision Making and the Psychology of Possibility II]

[Science of Living Systems 16. Human Evolution and the Human Body](#)

[*Science of Living Systems 24. From Neurons to Nations: The Science of Early Childhood Development and the Foundations of a Successful Society - \(New Course\)](#)

[SCRB 180. Repair and Regeneration in the Mammalian Brain](#)



Molecular and Cellular Biology

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Department of Molecular and Cellular Biology

Catherine Dulac, Higgins Professor of Molecular and Cellular Biology (*Chair and Co-Director of Graduate Studies*)

Howard C. Berg, Herchel Smith Professor of Physics and Professor of Molecular and Cellular Biology

Tamara J. Brenner, Lecturer on Molecular and Cellular Biology

Briana Burton, Assistant Professor of Molecular and Cellular Biology

Philippe Cluzel, Professor of Molecular and Cellular Biology and Gordon McKay Professor of Applied Physics

Victoria M. D'Souza, Assistant Professor of Molecular and Cellular Biology

Vladimir Denic, Assistant Professor of Molecular and Cellular Biology

John E. Dowling, Gordon and Llura Gund Professor of Neurosciences

Ryan Wesley Draft, College Fellow in the Department of Molecular and Cellular Biology

Florian Engert, Professor of Molecular and Cellular Biology

Raymond L. Erikson, American Cancer Society Professor of Cellular and Developmental Biology (*on leave fall term*)

Nicole J. Francis, Associate Professor of Molecular and Cellular Biology

Rachelle Gaudet, Professor of Molecular and Cellular Biology (*Co-Head Tutor*)

William M. Gelbart, Professor of Molecular and Cellular Biology

Karine A. Gibbs, Assistant Professor of Molecular and Cellular Biology

Guido Guidotti, Higgins Professor of Biochemistry

J. Woodland Hastings, Paul C. Mangelndorf Professor of Natural Sciences

Elizabeth Jean Heller, Preceptor in Molecular and Cellular Biology

Takao K. Hensch, Professor of Molecular and Cellular Biology

Craig P. Hunter, Professor of Molecular and Cellular Biology

David Jeruzalmi, Associate Professor of Molecular and Cellular Biology

Nancy Kleckner, Herchel Smith Professor of Molecular Biology

Samuel M. Kunes, Professor of Molecular and Cellular Biology (*on leave fall term*)

Evan Lau, Preceptor in Molecular and Cellular Biology

Andres Leschziner, Assistant Professor of Molecular and Cellular Biology

Jeff W. Lichtman, Jeremy R. Knowles Professor of Molecular and Cellular Biology

Richard M. Losick, Maria Moors Cabot Professor of Biology (*Co-Head Tutor*)

Robert A. Lue, Professor of the Practice of Molecular and Cellular Biology

Susan Mango, Professor of Molecular and Cellular Biology



Tara Mann, Preceptor in Molecular and Cellular Biology
Brandeis Michelle Mcbratney-owen, Preceptor in Molecular and Cellular Biology
Andrew P. McMahon, Frank B. Baird Jr. Professor of Science in the Department of Stem Cell and Regenerative Biology
Markus Meister, Jeff C. Tarr Professor of Molecular and Cellular Biology (*Co-Director of Graduate Studies*)
Matthew Meselson, Thomas Dudley Cabot Professor of the Natural Sciences (*on leave fall term*)
Lynne Marie Mullen, Preceptor in Molecular and Cellular Biology
Andrew W. Murray, Herchel Smith Professor of Molecular Genetics
Venkatesh N. Murthy, Professor of Molecular and Cellular Biology
Daniel Joseph Needleman, Assistant Professor of Applied Physics
David R. Nelson, Arthur K. Soloman Professor of Biophysics and Professor of Physics and Applied Physics
Erin K. O'Shea, Professor of Molecular and Cellular Biology and of Chemistry and Chemical Biology
Sharad Ramanathan, Assistant Professor of Molecular and Cellular Biology
Christov K. Roberson, Preceptor in Molecular and Cellular Biology
Casey Jean Roehrig, Preceptor in Molecular and Cellular Biology
Joshua R. Sanes, Professor of Molecular and Cellular Biology
Vicki L. Sato, Professor of the Practice of Molecular and Cellular Biology
Alexander F. Schier, Professor of Molecular and Cellular Biology
Haim I. Sompolinsky, Visiting Professor of Molecular and Cellular Biology (*Hebrew University*)
Bodo M. Stern, Lecturer on Molecular and Cellular Biology
Jack L. Strominger, Higgins Professor of Biochemistry in the Department of Stem Cell and Regenerative Biology
A. Thomas Torello, Lecturer on Molecular and Cellular Biology
Naoshige Uchida, Associate Professor of Molecular and Cellular Biology
Cheryl Denise Vaughan, Lecturer on Molecular and Cellular Biology
Alain Viel, Senior Lecturer on Molecular and Cellular Biology
Tamily A. Weissman, Lecturer on Molecular and Cellular Biology
Mary Ellen Wiltrout, Preceptor in Molecular and Cellular Biology

Other Faculty Offering Instruction in Molecular and Cellular Biology

Arkhat Abzhanov, Assistant Professor of Organismic and Evolutionary Biology
Uri Alon (*Weizmann Institute of Science*)
Scott A. Armstrong, Associate Professor of Pediatrics (*Medical School*)
Lewis C. Cantley, Professor of Systems Biology (*Medical School*)
Adam E. Cohen, Assistant Professor of Chemistry and Chemical Biology and of Physics
Charles A. Czeisler, Frank Baldino, Jr., Ph.D. Professor of Sleep Medicine (*Medical School*)
Scott V. Edwards, Professor of Organismic and Evolutionary Biology
Kevin C. Eggan, Associate Professor of Stem Cell & Regenerative Biology
Cassandra G. Extavour, Assistant Professor of Organismic and Evolutionary Biology
Walter Fontana, Professor of Systems Biology (*Medical School*)
Peter R. Girguis, John L. Loeb Associate Professor of the Natural Sciences
Gonzalo Giribet, Professor of Organismic and Evolutionary Biology



David E. Golan, Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)
 Michael E. Greenberg, Nathan Marsh Pusey Professor of Neurobiology (*Medical School*)
 James Hanken, Professor of Biology and Curator of Herpetology (*on leave fall term*)
 Daniel L. Hartl, Higgins Professor of Biology
 Konrad Hochedlinger, Associate Professor of Stem Cell & Regenerative Biology
 Hopi E. Hoekstra, John L. Loeb Associate Professor of the Natural Sciences
 Daniel E. Kahne, Professor of Chemistry and Chemical Biology
 Marc W. Kirschner, John Franklin Enders University Professor of Systems Biology (*Medical School*)
 Elena M. Kramer, Professor of Organismic and Evolutionary Biology
 David R. Liu, Professor of Chemistry and Chemical Biology, Harvard College Professor
 Thomas Maniatis, Jeremy R. Knowles Professor of Molecular and Cellular Biology, Emeritus
 Christopher Marx, Associate Professor of Organismic and Evolutionary Biology
 Thomas Michel, Professor of Medicine (*Medical School*)
 Ralph Mitchell, Gordon McKay Professor of Applied Biology, Emeritus
 Andrew G. Myers, Amory Houghton Professor of Chemistry and Chemical Biology
 Bence P. Olveczky, Assistant Professor of Organismic and Evolutionary Biology
 Hongkun Park, Professor of Chemistry and Chemical Biology and of Physics
 Shiv S. Pillai, Associate Professor of Health Sciences and Technology (*Medical School*)
 Anne E. Pringle, Associate Professor of Organismic and Evolutionary Biology
 Tobias Ritter, Associate Professor of Chemistry and Chemical Biology
 Pardis Sabeti, Assistant Professor of Organismic and Evolutionary Biology
 Alan Saghatelian, Associate Professor of Chemistry and Chemical Biology
 Stuart L. Schreiber, Morris Loeb Professor of Chemistry
 Julian L. Seifter, Associate Professor of Medicine (*Medical School*)
 Matthew D. Shair, Professor of Chemistry and Chemical Biology
 Eugene I. Shakhnovich, Professor of Chemistry and Chemical Biology
 Gregory L. Verdine, Erving Professor of Chemistry in the Department of Stem Cell & Regenerative Biology
 John R. Wakeley, Professor of Organismic and Evolutionary Biology
 David A. Weitz, Mallinckrodt Professor of Physics and of Applied Physics
 Xiaoliang Sunney Xie, Mallinckrodt Professor of Chemistry and Chemical Biology
 Yun Zhang, Assistant Professor of Biology
 Xiaowei Zhuang, Professor of Chemistry and Chemical Biology and of Physics

Courses offered by the MCB Department are appropriate for students interested in a variety of Life Sciences Concentrations, including Molecular and Cellular Biology, Chemical and Physical Biology, Neurobiology, and Organismic and Evolutionary Biology. For more information about Molecular and Cellular Biology Courses and the Life Sciences Concentrations, visit www.lifescience.fas.harvard.edu.

Primarily for Undergraduates

MCB 52. Molecular Biology

Catalog Number: 1938



Briana Burton, Richard M. Losick, and A. Thomas Torello

Half course (fall term). M., W., F., at 10, and one laboratory/discussion session weekly. EXAM GROUP: 3

An integrated and quantitative introduction to the principles of molecular biology with an emphasis on the experimental underpinning of key concepts. This course covers the biochemistry and structure of DNA; the Central Dogma of molecular biology (DNA replication and repair, transcription and RNA processing, and translation); and an overview of gene regulation and systems biology. The weekly section combines an investigative, discovery-based laboratory research project with a discussion emphasizing problem solving and the scientific method.

Note: This course, when taken for a letter grade, meets the General Education requirement for Science of Living Systems or the Core area requirement for Science B.

Prerequisite: Life and Physical Sciences A or Life Sciences 1a, Life Sciences 1b, or by permission of the instructor.

MCB 54. Cell Biology

Catalog Number: 0801

Robert A. Lue and Alexander F. Schier

Half course (spring term). M., W., F., at 10, and one laboratory/discussion session weekly.

EXAM GROUP: 3

An integrated introduction to the structure, function, and interactions of cells. Topics covered include: membrane structure and transport, receptors and channels, protein targeting, cytoskeleton, cell cycle, signal transduction, cell migration, cell growth and death, cell adhesion, cell polarity, embryogenesis, organogenesis, and stem cells.

Note: Laboratory and discussion sessions focus on problem solving and evaluation of data. A series of linked laboratory exercises provides exposure to several techniques commonly used in cell biology and developmental biology. This course, when taken for a letter grade, meets the General Education requirement for Science of Living Systems or the Core area requirement for Science B.

Prerequisite: Life and Physical Sciences A or Life Sciences 1a; Life Sciences 1b recommended.

MCB 56. Physical Properties of Macromolecules

Catalog Number: 5424

Rachelle Gaudet

Half course (spring term). M., W., F., at 10, and a weekly section to be arranged. EXAM GROUP: 3

The course aims to develop fundamental concepts of physical chemistry as they apply to macromolecules, including protein and nucleic acid structure, thermodynamics and kinetics, ligand interactions and chemical equilibria. The course will also emphasize how these concepts are used in studies of the structure and function of biological molecules.

Prerequisite: Life and Physical Sciences A or Life Sciences 1a; MCB 52; Chemistry 17/27 or Chemistry 20/30 (Chemistry 27 may be concurrent); Math 1b. Physics at the level of PS 2/3 is recommended but not required.

MCB 80. Neurobiology of Behavior

Catalog Number: 6052

Joshua R. Sanes and Jeff W. Lichtman



Half course (fall term). Tu., Th., 1-2:30, and a 90-minute section to be arranged. EXAM GROUP: 15, 16

An introduction to the ways in which the brain controls mental activities. The course covers the cells and signals that process and transmit information, and the ways in which neurons form circuits that change with experience. Topics include the neurobiology of perception, learning, memory, language, emotion, and mental illness.

Note: This course, when taken for a letter grade, meets the General Education requirement for Science of Living Systems or the Core area requirement for Science B. The course is open to students with little formal training in biology.

Cross-listed Courses

Life and Physical Sciences A. Foundational Chemistry and Biology

[Life Sciences 60 (formerly MCB 60). Ethics, Biotechnology, and the Future of Human Nature]

[*Visual and Environmental Studies 54s. Animating Science]

Molecular and Cellular Biology Supervised Reading and Research Courses

***MCB 91r. Introduction to Research**

Catalog Number: 0282

A. Thomas Torello and members of the Department

Half course (fall term; repeated spring term). Hours to be arranged.

Laboratory research in topics related to the Molecular and Cellular Biology Concentration under the direction of, or approved by, members of the Board of Tutors.

Note: Limited to Molecular and Cellular Biology concentrators; written permission of both the tutor and laboratory sponsor must be submitted to the MCB Student Affairs Office prior to enrolling in the course. This introductory research course is intended to prepare students for MCB 99 and may ordinarily be repeated no more than once. Ordinarily may not be taken as a fifth course. A final paper must be submitted to the laboratory sponsor and to the MCB Student Affairs Office for review by the instructor and members of the Board of Tutors.

***MCB 99. Laboratory Research for Honors Thesis**

Catalog Number: 2987

A. Thomas Torello and members of the Department

Full course (indivisible). Hours to be arranged.

For honors candidates writing a thesis in Molecular and Cellular Biology.

Note: Ordinarily may not be taken as a fifth course. Indivisible for students enrolling in the fall term. Students intending to enroll in the fall are required to submit a written proposal to the instructor. Students may enter the course at midyear only with the permission of the instructor. The thesis proposal must be approved by the instructor and Head Tutor prior to enrolling in MCB 99.

For Undergraduates and Graduates



MCB 105. Systems Neuroscience

Catalog Number: 0998

Florian Engert

Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

The neuronal basis of sensory processing and animal behavior will be explored in many different model systems as diverse as honeybees, weakly electric fish, and humans. Special emphasis is placed on the role of activity dependent modulation of neuronal connections in the context of learning, memory, and development of the nervous system.

Prerequisite: MCB 80.

[MCB 110. Introduction to Quantitative Tools for Cell Biology]

Catalog Number: 58465

Philippe Cluzel

Half course (spring term). Hours to be arranged.

This class will introduce students to the physical and mathematical tools that have become essential to analyze and understand data in cell biology. We will review concepts initially developed in physics in order to discuss real examples borrowed from classic experiments in biology. Topics to be covered: Noise, stochastic processes, single molecules, single-cell biology, robustness and evolvability of intracellular networks, modularity in biology, chaos, cell-to-cell variability, cell fate variability, cell-to-cell communication.

Note: Expected to be given in 2011–12.

Prerequisite: Knowledge of elementary statistical mechanics is helpful, but not necessary.

MCB 111. Mathematics in Biology

Catalog Number: 6444

Markus Meister

Half course (spring term). M., W., 1:30–3. EXAM GROUP: 6, 7

Develops the mathematics needed for quantitative understanding of biological phenomena including data analysis, simple models, and framing quantitative questions. Topics include probability, transforms and linear algebra, and dynamical systems, each motivated by current biological research.

Note: Intended for biology students who do not have strong quantitative backgrounds.

Prerequisite: Mathematics 19 or higher.

MCB 115. Cellular Basis of Neuronal Function

Catalog Number: 8703

Venkatesh N. Murthy

Half course (fall term). W., F., 2–3:30. EXAM GROUP: 7, 8

Cellular processes involved in the function of neurons will be explored, with emphasis on biophysical and cell biological approaches. Topics include excitable membranes, intracellular membrane trafficking, cytoskeletal dynamics, synaptic transmission, dendritic integration, and synaptic plasticity.

***MCB 118. From Egg to Embryo to Organ**

Catalog Number: 0749

Andrew P. McMahon



Half course (fall term). M., W., 2:30–4. EXAM GROUP: 7, 8

We will explore the molecular and cellular developmental mechanisms that regulate the progressive elaboration of a functional adult body plan through the study of vertebrate and invertebrate experimental model systems.

Prerequisite: Life and Physical Sciences A or Life Sciences 1a (or equivalent); Life Sciences 1b or MCB 54 recommended.

[*MCB 122. The Biology of Cell Division and Cancer]

Catalog Number: 4353

Raymond L. Erikson

Half course (fall term). Hours to be arranged.

The molecular and cellular interfaces between normal cells and cancer cells will be covered in lectures and readings from the original literature. Topics will include conversion of extracellular signals to intracellular signals, protein kinase networks, mitosis, cell death, oncogenes, and suppressor genes.

Note: Expected to be given in 2011–12.

Prerequisite: Recommended: MCB 52 and MCB 54.

[*MCB 129. Molecular Genetics of Neural Development and Behavior]

Catalog Number: 8956 Enrollment: Limited to 20.

Samuel M. Kunes

Half course (fall term). Hours to be arranged.

A lecture and discussion course on the development of the nervous system and the relationship between genes and behavior. Topics include neural differentiation and cell identity, cell birth and death, axon guidance and synaptic specificity, behavioral genetics. Emphasis on critical evaluation of readings from the primary literature, experimental design and scientific writing.

Note: Expected to be given in 2011–12.

Prerequisite: Permission of the instructor.

[MCB 131. Computational Neuroscience]

Catalog Number: 9868

Haim I. Sompolinsky (Hebrew University)

Half course (spring term). Hours to be arranged.

Follows trends in modern brain theory, focusing on local neuronal circuits as basic computational modules. Explores the relation between network architecture, dynamics, and function. Introduces tools from information theory, statistical inference, and the learning theory for the study of experience-dependent neural codes. Specific topics: computational principles of early sensory systems; adaptation and gain control in vision, dynamics of recurrent networks; feature selectivity in cortical circuits; memory; learning and synaptic plasticity; noise and chaos in neuronal systems.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Science B.

Prerequisite: Basic knowledge of multivariate calculus, differential equations, linear algebra, and elementary probability theory.



[MCB 141. Molecular and Developmental Neurobiology]

Catalog Number: 5205

Catherine Dulac

Half course (spring term). Hours to be arranged.

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, and establishment of appropriate connections in the developing brain. Molecular and genetic approaches to memory and behavior will be discussed.

Note: Expected to be given in 2011–12.

Prerequisite: MCB 52 and MCB 80.

[*MCB 142. Major Advances in Classical and Molecular Genetics]

Catalog Number: 7948 Enrollment: Limited to 20.

Matthew Meselson

Half course (fall term). Hours to be arranged.

MCB 142 aims to develop an understanding of the conceptual development of classical and molecular genetics, starting with Mendel and Darwin. Course work includes critical reading of selected papers on the chromosomal and molecular basis of heredity, student presentations, group discussion, and submission of written answers to problem sets. Participation in class discussion of readings is essential. A substantial essay on a mutually agreed topic is due at end of reading period.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Science B.

Prerequisite: Life Sciences 1b or equivalent and permission of the instructor.

***MCB 145 (formerly *Neurobiology 95hfb). Neurobiology of Perception and Decision Making**

Catalog Number: 6972

Naoshige Uchida

Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

One of the current goals of neuroscience is to understand neuronal circuits underlying perception and behavior. Recent advances in neuroscience have allowed us to glimpse neuronal processes that link perception and decision making. How is sensory information processed in the brain? How does an animal choose its action? How does an animal learn from ever-changing environments and adjust their behavior? The course will examine neurophysiological studies in perception and decision-making.

Prerequisite: MCB 80 and permission of the instructor.

***MCB 146 (formerly *Neurobiology 95c). Experience-Based Brain Development: Causes and Consequences**

Catalog Number: 5390

Takao K. Hensch

Half course (spring term). Tu., Th., 2–3:30. EXAM GROUP: 16, 17

At no time in life does the surrounding environment so potently shape brain function as in infancy and early childhood. This course integrates molecular/cellular biology with systems



neuroscience to explore biological mechanisms underlying critical periods in brain development. Understanding how neuronal circuits are sculpted by experience will motivate further consideration of the social impact on therapy, education, policy, and ethics.

Prerequisite: Life and Physical Sciences A or Life Sciences 1a, MCB 80, and permission of the instructor.

[MCB 147. Brain Circuits]

Catalog Number: 73572

Markus Meister

Half course (spring term). Hours to be arranged.

What functions arise when many thousands of neurons combine in a densely connected circuit? Though the operations of neural circuits lie at the very heart of brain science, our textbooks have little to say on the topic. This course explores what is known, and how we will learn more. The emphasis is on experimental science, but theory and computation play important roles in interpreting data and formalizing predictions.

Note: Expected to be given in 2011–12.

Prerequisite: MCB 80 or equivalent; some recent math experience.

MCB 151. From the Gene to the Phenotype

Catalog Number: 5799

William M. Gelbart

Half course (spring term). Hours to be arranged.

This course will explore how the information encoded in our genomes leads to both the shared phenotypic characteristics of a species as well as individual variation. Both the classical literature and the current state of the art will be discussed.

Prerequisite: Life Sciences 1b, or permission of the instructor.

[MCB 152. Genetic Analysis]

Catalog Number: 6788

Craig P. Hunter

Half course (fall term). Hours to be arranged.

An advanced course focusing on genetic analysis of fundamental cellular and developmental processes in model organisms. An emphasis is placed on reading and understanding the primary literature through introductory lectures, class discussions, and short written assignments. Students will learn how to design and interpret genetic experiments in a variety of model organisms.

Note: Expected to be given in 2011–12.

Prerequisite: Life Sciences 1b, MCB 52, and MCB 54.

***MCB 153. The Practice of Experimental Science: a Genetics Laboratory Course - (New Course)**

Catalog Number: 16796 Enrollment: Limited to 12.

Craig P. Hunter

Half course (spring term). M., 1–4.

Students will be exposed to theoretical and practical concepts in classical and modern genetic analysis through direct laboratory experience using the model genetic organism *C. elegans*. This



will be accompanied by journal clubs, student presentations, and lecture.

Note: Laboratory will be open for after hours access as well.

Prerequisite: Life Sciences 1a, Life Sciences 1b; can be taken concurrently with MCB 52, MCB 54.

MCB 154. Advanced Cell and Developmental Biology - (New Course)

Catalog Number: 83425

Susan Mango

Half course (spring term). M., W., 1–2:30. EXAM GROUP: 6, 7

This course covers topics in molecular and cellular biology within a developmental context. The course is organized around principles of spatial organization within cells, tissues and organs. We will discuss seminal findings as well as important unanswered questions in cell and developmental biology. Each week a different topic will be addressed through a combination of discussion of primary research papers and lectures.

Note: Intended for advanced undergraduates who have taken MCB 52 and MCB 54.

***MCB 155. Bioregulatory Mechanisms**

Catalog Number: 6230

Nicole J. Francis and Vladimir Denic

Half course (spring term). Tu., Th., 4–6.

An advanced course on the control of gene regulation. Topics include: mechanisms of gene regulation at the level of transcription, chromatin structure, DNA methylation, RNA processing, mRNA localization, and protein synthesis and degradation. The course is taught through weekly lectures and readings from the current literature. Topics covered in lectures and the reading assignments are discussed in sections. Students are required to critically evaluate and discuss recent papers in sections. Two exams.

Prerequisite: MCB 52 and MCB 54 (or equivalent), and permission of instructor.

MCB 156. Structural Biology of the Flow of Information in the Cell

Catalog Number: 8543

David Jeruzalmi

Half course (spring term). Tu., Th., 2–3:30. EXAM GROUP: 16, 17

A journey that follows the path taken by an extra-cellular signal as it reaches a cell, traverses the plasma membrane, navigates the cytoplasm, and finally manifests its effect upon the genome. Through the reading and discussion of primary research literature, the course highlights how structural biology has helped develop a detailed picture of each step in the pathway. The interplay between cellular and network biology and structural biology is also emphasized.

Prerequisite: Introductory molecular and cellular biology (MCB 52 and MCB 54 or equivalent).

MCB 169. Molecular and Cellular Immunology

Catalog Number: 2518

Shiv S. Pillai (Medical School)

Half course (fall term). Tu., Th., 10-11:30, and a 90-minute section to be arranged. EXAM GROUP: 12, 13

The immune system is frontier at which molecular biology, cell biology, and genetics intersect with the pathogenesis of disease. The course examines in depth the cellular and molecular



mechanisms involved in the development and function of the immune system and also analyzes the immunological basis of human disease including AIDS and other infectious diseases, autoimmune disorders, allergic disorders, primary immunodeficiency syndromes, transplantation, and cancer.

Prerequisite: Life and Physical Sciences A or Life Sciences 1a or equivalent. Genetics and cell biology strongly recommended.

[*MCB 173. Optical Imaging in the Biological Sciences]

Catalog Number: 3836

Jeff W. Lichtman

Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

The optical microscope has undergone a radical transformation. Recent innovations in lasers, chemistry, molecular biology, detectors, computation and optics have propelled the microscope to the cutting edge of modern biology. These complex machines are now the tools of choice for revealing structure and function in biology. This course explores the principles and practice of the “new microscopy”. Topics include the nature of light, fluorescence, image restoration, confocal, 2-photon, structured illumination and other new techniques.

Note: Expected to be given in 2011–12.

Prerequisite: Permission of the instructor; MCB 80 recommended.

MCB 176. Biochemistry of Membranes

Catalog Number: 3186

Guido Guidotti

Half course (fall term). M., W., 2–4. EXAM GROUP: 7, 8

A course on the properties of biological membranes, essential elements for cell individuality, communication between cells, and energy transduction. Topics include: membrane structure; membrane protein synthesis, insertion in the bilayer and targeting; transporters, pumps and channels; electron transport, H⁺ gradients and ATP synthesis; membrane receptors, G proteins and signal transduction; membrane fusion.

Prerequisite: MCB 52 and MCB 54 are recommended but not required.

MCB 185. Human Disease

Catalog Number: 1124

Gregory L. Verdine

Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

This course will address both the molecular basis of human disease and the biological and chemical foundation of therapeutic intervention. The course will include lectures by prominent experts and analysis of the primary literature.

Note: May not be taken concurrently with Chemistry 185. May not be taken for credit if Chemistry 185 or Chemistry 285 have already been taken.

Prerequisite: Chemistry 20/30 or 17/27, MCB 52, or their equivalents.

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 weekly section 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: Life Sciences 1b or equivalent, MCB 80 desirable.

MCB 188. Chromosomes

Catalog Number: 8561

Nancy Kleckner

Half course (spring term). W., F., 11:30–1. EXAM GROUP: 4, 5

Chromosome morphogenesis in prokaryotic and eukaryotic organisms. Topics will include chromosome structure, interactions between chromosomes (sisters and homologs), DNA recombination and repair, topoisomerases, transposable elements and site-specific recombination, epigenetic inheritance. Genetic, cytological, and biochemical approaches will be integrated. Lecture, reading, and discussion of classical and current literature and consideration of future experimental directions.

Prerequisite: Life Sciences 1b or equivalent, MCB 52, and MCB 54.

[MCB 192. Principles of Drug Discovery and Development]

Catalog Number: 2188 Enrollment: Limited to 40.

Vicki L. Sato and Gregory L. Verdine

Half course (spring term). Hours to be arranged.

This interdisciplinary course will examine the process of drug discovery and development through disease-driven examples. Topics include: the efficacy/toxicity balance, the differences between drugs and inhibitors, the translation of cellular biochemistry to useful medicine.

Note: Expected to be given in 2011–12. May not be taken concurrently with Chemistry 192. May not be taken for credit if Chemistry 192 has already been taken.

Prerequisite: MCB 52 and one year of organic chemistry. MCB 54 is recommended.

[MCB 195. Foundations of Systems Biology and Biological Engineering]

Catalog Number: 9112

Instructor to be determined

Half course (spring term). Hours to be arranged.

This course builds an understanding of design principles in biology. We will ask why biological circuits are built the way they are and answer using mathematical models. Topics: elementary circuits in biological networks, robustness, pattern-formation in embryos, error-correction, and evolutionary optimization.

Note: Expected to be given in 2011–12. Students from physics, engineering and other disciplines are also welcome.

Prerequisite: Life and Physical Sciences A or Life Sciences 1a, Life Sciences 1b and Mathematics 1a/1b and molecular cell biology at the level of MCB 52 and MCB 54. Familiarity with mathematics at the level of 19/20 is strongly recommended.



MCB 198. Advanced Mathematical Techniques for Modern Biology - (New Course)

Catalog Number: 62117 Enrollment: Limited to 20.

Sharad Ramanathan and Venkatesh N. Murthy

Half course (spring term). Tu., Th., 10-11:30 with a one-hour section meeting weekly. EXAM GROUP: 12, 13

How do we find biologically meaningful patterns in a large amount of data? How do animals learn to use patterns in the environment to infer information despite the ignorance of the underlying laws? The course will introduce Bayesian analysis, maximum entropy principles, hidden markov models and pattern theory in order to study DNA sequence, gene expression and neural spike train data. The relevant biological background will be covered in depth.

Prerequisite: A strong background in calculus, linear algebra, fourier analysis, complex analysis at the advanced undergraduate level and an introductory knowledge of probability theory is required. Knowledge of statistical mechanics and comfort with programming will be useful.

MCB 199. Statistical Thermodynamics and Quantitative Biology

Catalog Number: 9072

David R. Nelson

Half course (spring term). M., W., F., at 11. EXAM GROUP: 4

Course seeks to develop an understanding of thermodynamics and statistical mechanics, with applications to quantitative problems in biology such as configurations of biopolymers, equilibrium states of matter, chemical reactions and protein transport, using the concepts of entropy, free energy, adsorption, chemical kinetics and molecular diffusion.

Prerequisite: Two terms of college calculus, a calculus-based physics course, and some exposure to molecular and cellular biology. Experience with statistics and differential equations not essential, but helpful.

Cross-listed Courses

[Biophysics 101 (Genomics and Computational Biology). Computational Biology]
Chemistry 101 (formerly Chemistry 201). Organic Synthesis Towards a Genomic Medicine
Chemistry 163. Frontiers in Biophysics

***Chemistry 170 (formerly *Chemistry 270). Chemical Biology**

Human Evolutionary Biology 1420. Human Evolutionary Anatomy

***Human Evolutionary Biology 1463. Molecular Evolution of the Primates**

***Life Sciences 100r (formerly *MCB 100r). Experimental Research in the Life Sciences**

[Mathematics 153. Mathematical Biology-Evolutionary Dynamics]

[Physics 141. The Physics of Sensory Systems in Biology]

SCRB 125 (formerly MCB 125). Nuclear Reprogramming and Developmental Plasticity

SCRB 150 (formerly MCB 150). Human Genetics: Mining Our Genomes for an Understanding of Human Variation and Disease

***SCRB 165. Directed Differentiation of Stem Cells**

***SCRB 167. Stem Cells and Regeneration in the Pathobiology and Treatment of Human Disease**

***SCRB 178 (formerly MCB 268). Molecular Immunology: Seminar**

SCRB 190. Understanding Aging: Degeneration, Regeneration, and the Scientific Search for the Fountain of Youth



Primarily for Graduates

[MCB 206. Introduction to Connectomics]

Catalog Number: 2303

Jeff W. Lichtman, R. Clay Reid (Medical School), and members of the Department

Half course (fall term). Tu., Th., 3:30–6:30.

Focuses on how the tools of connectomics (nanoscale imaging, nanoscale and microscale cutting, fluorescent and electron-dense staining, image analysis algorithms) generate data about neural connectivity. Case studies: *C. elegans*, neuromuscular junction, retina, cortex.

Note: Expected to be given in 2011–12.

***MCB 208. Talking about Science**

Catalog Number: 3605 Enrollment: Limited to 30.

Jeff W. Lichtman and Michael E. Greenberg (Medical School)

Half course (fall term). W., 6–8 p.m. EXAM GROUP: 9

Teaches advanced students how to give a good research talk while exposing them to seminal scientific discoveries. Emphasis will be on speaking style, lecture organization, and use of video projection tools.

Note: In addition to lecture material from the instructor, students will present experiments from Nobel Prize-winning work. The presentations will be critiqued in class by the participants. Open to second year graduate students or with permission of the instructor.

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.

Note: Offered in alternate years. A term paper and seminar are required.

MCB 225. Interesting Questions in Physical Biology

Catalog Number: 7646

Nancy Kleckner and David A. Weitz

Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16

Physical biology can be defined as a discipline that seeks to understand biological processes through the lens of physics and engineering. Faculty and students will unite to review current research with the aim of identifying and pondering interesting emerging questions in this area.

Note: Intended primarily for first year graduate students in the EPB PhD track but available to other graduate students and advanced undergraduates as space permits.

MCB 234. Cellular Metabolism and Human Disease

Catalog Number: 0870

Thomas Michel (Medical School), Robert A. Lue, Alain Viel, and members of the Department

Half course (spring term). M., W., F., 9–10:30. EXAM GROUP: 2, 3

Cellular and organismal metabolism, with focus on interrelationships between key metabolic pathways and human disease states. Genetic and acquired metabolic diseases and functional



consequences for specific organ systems. Lectures and conferences are integrated with clinical encounters with patients.

Note: Students may attend lectures in either Cambridge or Boston since they will be transmitted live from HMS to Harvard College and vice-versa; the inter-campus link will allow real-time interactions between students and faculty at each site. May not be taken concurrently with BCMP 234. May not be taken for credit if BCMP 234 has already been taken.

Prerequisite: Knowledge of introductory biochemistry, genetics, and cell biology required (MCB 52 and MCB 54 or equivalent); one year of organic chemistry.

MCB 235. Principles of Human Disease: Physiology and Pharmacology

Catalog Number: 9139

David E. Golan (Medical School), Julian L. Seifter (Medical School), and David Edward Sloane (Medical School)

Half course (fall term). Hours to be arranged.

Principles of human physiology, pathophysiology and drug action—including mechanisms of organ function in health and disease and strategies for designing drug-based therapeutic interventions—discussed in lectures, critical readings, clinical case scenarios, and patient presentations.

Note: May not be taken concurrently with BCMP 235. May not be taken for credit if BCMP 235 has already been taken.

Prerequisite: Knowledge of introductory biochemistry, molecular biology, and cell biology required (MCB52 and MCB54 or equivalent); one year of organic chemistry.

MCB 290hfr. Current Topics in Molecular, Cellular and Organismal Biology - (New Course)

Catalog Number: 31903

Vladimir Denic and members of the Department

Half course (throughout the year). F., at 3:30. EXAM GROUP: 8, 9

This class teaches students how to publicly present scientific papers to a diverse audience with emphasis on contextualizing the scientific problem under discussion, critically presenting the essential data, and using an engaging presentation style.

Note: Required for all first and second year graduate students in the Molecules, Cells and Organisms (MCO) Training Program; may be taken for SAT/UNS credit only.

MCB 291. Genetics, Genomics and Evolutionary Biology

Catalog Number: 2833

Cassandra G. Extavour and Andrew W. Murray

Half course (fall term). M., W., 10:30-12 and a weekly section on F., 10-12. EXAM GROUP: 3, 4

This course covers the fundamentals of classical genetics, molecular genetics, macro- and microevolution, phylogenetics, and developmental evolution. The emphasis is on major concepts and terminology, reading landmark primary literature, and acquainting students with research techniques.

Note: Required for first year graduate students in the Molecules, Cells and Organisms (MCO) Training Program.



MCB 292. Cellular Biology, Neurobiology and Developmental Biology

Catalog Number: 4288 Enrollment: Limited to 20.

John E. Dowling, Vladimir Denic, Karine A. Gibbs, and Alexander F. Schier

Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

The biology of the individual cell lies at the heart of multi-cellular phenomena such as development and neural function. This course will emphasize critical evaluation of the primary literature, experimental design and scientific writing.

Note: Required for first year graduate students in the Molecules, Cells and Organisms (MCO) Training Program.

MCB 293. Physical, Chemical and Molecular Biology

Catalog Number: 2706

Andres Leschziner and Victoria M. D'Souza

Half course (fall term). M., W., 2:30-4. EXAM GROUP: 7, 8

This course will introduce basic principles in general, organic and physical chemistry, including kinetics and thermodynamics, as well as macromolecular structure. Concepts will be illustrated with examples taken from the visual system.

Note: Required for first year graduate students in the Molecules, Cells and Organisms (MCO) Training Program.

Cross-listed Courses

Applied Physics 291. Electron Microscopy Laboratory

BCMP 235. Principles of Human Disease: Physiology and Pharmacology

Engineering Sciences 224. Laboratory in Engineering and Physical Biology

[Microbiology 213. Social Issues in Biology]

***OEB 290 (formerly *Life Sciences 190r). Microbial Sciences: Chemistry, Ecology and Evolution**

Systems Biology 200. Dynamic and Stochastic Processes in Cells

Graduate Courses of Reading and Research

***MCB 300. Introduction to Research**

Catalog Number: 4816

Markus Meister 3007, Catherine Dulac 2801, and members of the Department

***MCB 301. Synapse Formation**

Catalog Number: 3935

Joshua R. Sanes 5094

***MCB 303. Mechanisms of Epigenetic Inheritance by Polycomb Group Proteins**

Catalog Number: 3144

Nicole J. Francis 5227



***MCB 304. Experimental Biological Physics and Quantitative Cell Biology**

Catalog Number: 5730

Daniel Joseph Needleman 6151

***MCB 305. Signaling Processing and Systems Biology**

Catalog Number: 1443

Sharad Ramanathan 6015

***MCB 306. Biophysics and Physiology of Neurons**

Catalog Number: 1695

Venkatesh N. Murthy 2424

***MCB 307. Developmental Genetics and Neurobiology**

Catalog Number: 8554

Alexander F. Schier 5238

***MCB 308. Quantitative Analysis of Regulatory Networks**

Catalog Number: 2226

Erin K. O'Shea 5239

***MCB 311. Biochemistry of Epigenetics**

Catalog Number: 6131

Nicole J. Francis 5227

***MCB 312. Military and Arms Control Applications of Biology and Chemistry**

Catalog Number: 2063

Matthew Meselson 1319 (on leave fall term)

***MCB 315. Structural Biology of Signaling and Transport Through Biological Membranes**

Catalog Number: 9560

Rachelle Gaudet 4413

***MCB 316. Structural Biology of Retroviral Replication**

Catalog Number: 8769

Victoria M. D'Souza 5584

***MCB 317. Structure and Function of the Biological Assemblies Involved in DNA Replication**

Catalog Number: 6396

David Jeruzalmi 4528

***MCB 322. Genetics and Development**

Catalog Number: 7290

Craig P. Hunter 2803



***MCB 326. Biochemical Virology**

Catalog Number: 0243

Raymond L. Erikson 7506 (on leave fall term)

***MCB 328. Neuronal Circuit Development**

Catalog Number: 5728

Takao K. Hensch 5813

***MCB 329. Structural Biology of ATP-Dependent Chromatin Remodeling**

Catalog Number: 6060

Andres Leschziner 5928

***MCB 330. Mechanisms of DNA Transport Across Membranes**

Catalog Number: 7228

Briana Burton 6214

***MCB 331. Single-Cell Analysis of Transcriptional and Signaling Networks in Bacteria**

Catalog Number: 4064

Philippe Cluzel 6215

***MCB 332. Mechanisms of Membrane-Based Cell Biological Processes**

Catalog Number: 9806

Vladimir Denic 6216

***MCB 344. Molecular and Developmental Neurobiology**

Catalog Number: 2292

Catherine Dulac 2801

***MCB 359. Chromosomes**

Catalog Number: 6278

Nancy Kleckner 4697

***MCB 363. Invertebrate Development and Transcriptional Circuitry**

Catalog Number: 15771

Susan Mango 6386

***MCB 364. Vertebrate Development**

Catalog Number: 1396

Andrew P. McMahon 3312

***MCB 365. Neurobiology**

Catalog Number: 8349

John E. Dowling 3545



***MCB 366. Synaptic Plasticity and Neuronal Networks**

Catalog Number: 1085

Florian Engert 4290

***MCB 367. Structural Studies of Synapses**

Catalog Number: 1850

Jeff W. Lichtman 5163

***MCB 368. Neural Circuits for Sensation and Behavior**

Catalog Number: 30878

Naoshige Uchida 5745

***MCB 373. Cellular Biochemistry and Physiology**

Catalog Number: 8053

J. Woodland Hastings 1311

***MCB 374. Developmental Neurobiology**

Catalog Number: 6167

Samuel M. Kunes 3486 (on leave fall term)

***MCB 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 379. Social Behaviors and Genetics of Bacteria - (New Course)**

Catalog Number: 10595

Karine A. Gibbs 6592

***MCB 381. Microbial Development**

Catalog Number: 4994

Richard M. Losick 3561

***MCB 386. Molecular Evolution**

Catalog Number: 0763

Matthew Meselson 1319 (on leave fall term)

***MCB 390. Function of Neuronal Circuits**

Catalog Number: 8883

Markus Meister 3007



***MCB 391. Biochemistry**

Catalog Number: 4888

Guido Guidotti 1203

***MCB 396. Regulation of Mitosis**

Catalog Number: 5706

Andrew W. Murray 3765

Music

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Department of Music

Anne C. Shreffler, James Edward Ditson Professor of Music (*Chair*)

John Luther Adams, Fromm Foundation Visiting Lecturer on Music

William Kirk Bares, College Fellow in the Department of Music

Richard Beaudoin, Lecturer on Music

Andrew Gregory Clark, Senior Lecturer on Music and Director of Choral Activities

Suzannah Clark, Gardner Cowles Associate Professor of Music (*on leave 2010-11*)

Federico Cortese, Senior Lecturer on Music

Chaya Czernowin, Walter Bigelow Rosen Professor of Music

Christopher Hasty, Walter W. Naumburg Professor of Music

Thomas Forrest Kelly, Morton B. Knafel Professor of Music (*Head Tutor*)

Robert D. Levin, Dwight P. Robinson, Jr. Professor of Music

Evan A. MacCarthy, College Fellow in the Department of Music

Jameson N. Marvin, Senior Lecturer on Music (*on leave 2010-11*)

Drew Michael Massey, Lecturer on Music

Ingrid Monson, Quincy Jones Professor of African-American Music, Supported by the Time Warner Endowment, Dean of Arts and Humanities

Carol J. Oja, William Powell Mason Professor of Music

Olaf Leon Post, Preceptor in Music

Alexander Rehding, Fanny Peabody Professor of Music

Sindhumathi Revuluri, Assistant Professor of Music

Matthias Roeder, College Fellow in the Department of Music

Kay Kaufman Shelemay, G. Gordon Watts Professor of Music and Professor of African and African American Studies (*Director of Graduate Studies*)

Daniel Stepner, Preceptor in Music

Hans Tutschku, Fanny P. Mason Professor of Music

Richard K. Wolf, Professor of Music

Christoph Wolff, Adams University Professor (*on leave fall term*)



Other Faculty Offering Instruction in 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. Students who know they are going to concentrate in Music and do not have piano background should consult with the instructor of Music 51 immediately upon arrival at Harvard. In order to obtain concentration credit for a course for which such credit is not normally given, students must petition the Department at the beginning of the term. For students not intending to concentrate in Music, the department ordinarily offers Music 1 and Music 2 every year. Other courses may be taken with permission of the instructor. See also listings in African and African American Studies, Core Curriculum, Folklore and Mythology, General Education, and Medieval Studies.

Primarily for Undergraduates

Music 1a. Introduction to Western Music from the Middle Ages to Mozart

Catalog Number: 8071

Evan A. MacCarthy

Half course (fall term). M., W., (F.), at 1. EXAM GROUP: 6

Exploring about 1000 years of western music history (c.800-1800), this course will consider the musical styles of particular periods and specific composers including Machaut, Du Fay, Josquin, Palestrina, Monteverdi, Handel, Bach, and Mozart.

Note: Music 1a can be taken independently of Music 1b. No prior knowledge of music is presumed. This course, when taken for a letter grade, meets the General Education requirement for Aesthetic and Interpretive Understanding or the Core area requirement for Literature and Arts B. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. May not be taken for concentration credit.

Music 1b. Introduction to Western Music from Beethoven to the Present

Catalog Number: 4952

Drew Michael Massey

Half course (spring term). M., W., (F.), at 1. EXAM GROUP: 6

Continues the survey started in Music 1a, beginning with the transition from the Classical to the Romantic period. Explores the history of music in its stylistic and cultural contexts, including aspects of form, composition, social significance, and politics. Composers studied include Beethoven, Schubert, Robert and Clara Schumann, Liszt, Berlioz, Brahms, Wagner, Verdi, Mahler, Schoenberg, Berg, Stravinsky, Debussy and later 20th c. figures.

Note: Music 1b can be taken independently of Music 1a. No prior knowledge of music presumed. This course, when taken for a letter grade, meets the General Education requirement for Aesthetic and Interpretive Understanding or the Core area requirement for Literature and Arts B. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. May not be taken for concentration credit.

Music 2. Foundations of Tonal Music I

Catalog Number: 0645 Enrollment: Limited to 60.



Richard Beaudoin

Half course (fall term). M., W., F., at 12. EXAM GROUP: 5

Seeks to develop a greater understanding of musical language, the conceptual foundations of musical literature, and of how critical listening and analysis can be performed. We will make use of traditional prose analysis in the form of written essays as well as musically specific writing and analytical techniques. While reading knowledge of simple musical notation is helpful, there will be at least one section for students with no previous experience.

Note: Open to all students. May not be counted for concentration credit. This course, when taken for a letter grade, meets the General Education requirement for Aesthetic and Interpretive Understanding or the Core area requirement for Literature and Arts B.

Music 3. Foundations of Tonal Music II

Catalog Number: 5805 Enrollment: Limited to 48.

Andrew Gregory Clark

Half course (spring term). M., W., F., at 12.

The first part of the course concentrates on increasing understanding and fluency in writing within the musical language of “common practice tonality”. The second part of the course looks at 20th-century techniques for composing music. The final project is a short composition that will be performed during reading period. Teaching takes place in groups of 10-12, divided according to background, with full group lectures every week.

Note: May not be counted for concentration credit.

Prerequisite: Music 2 or permission of the instructor.

Music 4. Introduction to Composition

Catalog Number: 2239 Enrollment: Limited to 16.

Richard Beaudoin

Half course (spring term). Th., at 3, Tu., 3–5.

Open to students with little or no prior experience in composition. Explores ways of thinking about and organizing basic compositional elements such as melody, harmony, rhythm and instrumental color, as well as developing skills of score preparation and analytical listening. The primary focus of the course is a series of short compositional exercises, culminating in a somewhat longer final project. Workshop performances of students’ music take place throughout the term.

Note: May not be counted for concentration credit.

Prerequisite: Music 2 or equivalent or permission of the instructor.

[Music 5. Intermediate Composition]

Catalog Number: 9966

Instructor to be determined

Half course (spring term). Hours to be arranged.

Continues the exploration of basic compositional principles begun in Music 4 with a focus on strategies of large-scale organization in music. Students write pieces during the semester exemplifying a different principle of formal structure (e.g. rondo, through composition, and “moment form”).

Note: Expected to be given in 2011–12. May be taken independently of Music 4 with permission of instructor. May not be counted for concentration credit.



***Music 51a. Theory I**

Catalog Number: 2261

Olaf Leon Post

Half course (fall term). M., 2–4. EXAM GROUP: 7, 8

Musicianship, harmony and counterpoint. Course proceeds via frequent practical exercises (model composition, ear training, analytical exercises and keyboard harmony assignments). First semester concentrates on melodies, bass lines, and simple tonal counterpoint.

Note: For this course a placement exam is required, which is offered the week before classes begin. Please contact the Music Department for further information. Music 51a or its equivalent is required of all concentrators. Students planning to concentrate in Music are encouraged to take the course in their freshman year. Concentrators should plan to meet this requirement by no later than the end of the sophomore year.

Prerequisite: Basic theory and ear training skills. Basic keyboard skills are useful.

***Music 51b. Theory 1**

Catalog Number: 9585

Olaf Leon Post

Half course (spring term). M., 2–4. EXAM GROUP: 7, 8

Continuation of the skills practiced in Music 51a. The second semester focuses on four-part writing and more advanced harmony/counterpoint, using a wide range of musical styles.

Note: Music 51b or its equivalent is required of all concentrators. Students planning to concentrate in Music are encouraged to take the course in their freshman year. Concentrators should plan to meet this requirement by no later than the end of the sophomore year.

Prerequisite: Music 51a.

***Music 91r. Supervised Reading and Research**

Catalog Number: 1298

Thomas F. Kelly and members of the Department

Half course (fall term; repeated spring term). Hours to be arranged.

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 Head Tutor. May be counted for concentration *only* with the prior approval of the Department.

***Music 97a (formerly *Music 97r). Music History and Repertory: Medieval to Baroque**

Catalog Number: 0113

Thomas Forrest Kelly

Half course (fall term). M., W., F., at 10. EXAM GROUP: 3

An intensive survey of Western music from the middle ages to ca. 1750, providing methods of further study of music in historical and cultural contexts as well as knowledge of repertory.

Note: Music 97 is required of all concentrators, preferably taken in the sophomore year, or earlier by permission. Each third 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 97b. Music History & Repertory: Classical to Contemporary**

Catalog Number: 71121

Matthias Roeder

Half course (spring term). M., W., F., at 11. EXAM GROUP: 4

An intensive survey of western music from the Classical to Contemporary periods. Course culminates in an examination testing students' knowledge of a large listening repertory.

Note: Music 97b is required of all music concentrators, preferably taken in the sophomore year, or earlier by permission.

Prerequisite: Music 51 may be taken concurrently.

***Music 97c. Music History and Repertory: Music in Cross-Cultural Perspective**

Catalog Number: 36288

Kay Kaufman Shelemay

Half course (fall term). M., W., F., at 11. EXAM GROUP: 4

An intensive introduction to selected world music repertoires, as well as research methods and interpretive issues in the field of ethnomusicology. Explored are the musical, intellectual, and cultural challenges posed by the cross-cultural study of music.

Note: Music 97 is required of all concentrators, preferably taken in the sophomore year, or earlier by permission. Each third of the course culminates in an examination testing students' knowledge of a large listening repertory. These examinations must be passed in order to receive credit for the course.

Prerequisite: Music 51 may be taken concurrently.

***Music 98r. Tutorial — Junior Year**

Catalog Number: 5601

Thomas Forrest Kelly and members of the Department

Half course (fall term; repeated spring term). Hours to be arranged.

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.

Note: With permission, may be taken for a second term.

***Music 99r. Tutorial — Senior Year**

Catalog Number: 1765

Thomas Forrest Kelly and members of the Department

Half course (fall term; repeated spring term). Hours to be arranged.

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

Andrew Gregory Clark

Half course (fall term). W., 1–3. EXAM GROUP: 6, 7

Students conduct the class/choir to gain experience building and refining conducting technique.



Through repertoire of various eras, students develop score reading and analysis skills, explore rehearsal methods, and consider the application of vocal pedagogy in ensemble singing.

Prerequisite: Choral or ensemble experience; ear training, keyboard, and theory background helpful.

[*Music 127r. Conducting & Orchestral Repertory Analysis]

Catalog Number: 68953 Enrollment: Limited to 12.

Federico Cortese

Half course (fall term; repeated spring term). Fall: Th., 2–4; Spring: Th., 2–5. EXAM GROUP: Spring: 16, 17, 18

Studies in conducting skills related to symphonic and operatic repertoire.

Note: Expected to be given in 2011–12. By audition only.

***Music 128r. Topics in Orchestral Conducting - (New Course)**

Catalog Number: 12841 Enrollment: Limited to 12.

Federico Cortese

Half course (fall term). Th., 1–4. EXAM GROUP: 15, 16, 17

Così fan tutte. Includes readings about the opera, analyzing various parts from different standpoints (harmonic, structural, dramatic), readings and study of Mozart's style issues. Several scenes of the opera will be staged.

Note: Specifically looking for pianists, singers and conductors. By audition only, prior to first meeting.

Music 150a (formerly Music 154). Theory II

Catalog Number: 4771

Alexander Rehding

Half course (fall term). M., 2–4. EXAM GROUP: 7, 8

Continues the work of Music 51. The fall term focuses on the Classical style (Haydn, Mozart, Beethoven). Topics include harmony, phrase structure, simple forms, and sonata-form procedures. Concepts are developed through analysis, model composition, keyboard harmony and ear-training exercises.

Note: Required of all concentrators. Students who have taken Music 154 may not enroll in this course.

Prerequisite: Music 51 or equivalent.

Music 150b. Music Theory IIb - (New Course)

Catalog Number: 36063

Richard Beaudoin

Half course (spring term). W., 2–4. EXAM GROUP: 7, 8

Explores chromatic harmony in 19th century instrumental and vocal forms. Concepts are developed through analysis, model composition, keyboard harmony and ear-training exercises.

Note: Required of all concentrators. Students who have taken Music 154 may not enroll in this course.

Prerequisite: Music 51 or equivalent.



Music 151 (formerly Music 157x). Tonal Analysis

Catalog Number: 6830

Alexander Rehding

Half course (spring term). Tu., 1–3. EXAM GROUP: 15, 16

Detailed examination of representative tonal compositions.

Note: Open to graduate students.

Prerequisite: Music 150 or permission of instructor.

Music 152 (formerly Music 157y). Post-Tonal Analysis

Catalog Number: 4397

Christopher Hasty

Half course (fall term). W., 2–4. EXAM GROUP: 7, 8

Intensive survey of compositional styles and techniques of the last 100 years. Traditional pitch-centered analysis, including set theory, as well as approaches focusing on rhythm, timbre, gesture, and other elements.

Prerequisite: Music 150 or permission of instructor.

Music 153. Jazz Harmony

Catalog Number: 10693

William Kirk Bares

Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

Intensive survey of jazz harmony, from Tin Pan Alley and blues-based music of Jazz's Golden era to modern modal, symmetric and/or free jazz.

Note: Strongly recommended for those planning to take Music 186r. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts B.

Music 155. Modal Counterpoint

Catalog Number: 7710

Christopher Hasty

Half course (spring term). W., 1–3.

Study of representative styles and genres of 16th-century polyphony. Detailed analytic work will be combined with compositional exercises.

Prerequisite: Music 150 or permission of instructor.

[Music 156. Tonal Counterpoint: Seminar]

Catalog Number: 3930

Instructor to be determined

Half course (fall term). Hours to be arranged.

Written work in the Bach style.

Note: Expected to be given in 2011–12.

Prerequisite: Music 150 or equivalent.

[Music 158r. Interpreting Musical Performance]

Catalog Number: 9813

Christopher Hasty

Half course (fall term). Hours to be arranged.



Analyzing Performance. Analysis of selected pieces aimed at discovering and evaluating possibilities for execution and perception. Repertory includes fully notated music and music that has no tradition of notation. Questions addressed are those of perception, notation, and adequacy of conventional analytic categories.

Note: Expected to be given in 2011–12. Open to graduate students.

Prerequisite: Music 150 or permission of instructor.

Music 159. South Indian Music Theory & Practice - (New Course)

Catalog Number: 38768

Richard K. Wolf

Half course (spring term). F., 9–11.

Analysis of contemporary south Indian classical composition and improvisational forms.

Students will learn to sing or play an instrument and participate in a concert at the end of the semester.

Note: This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts B.

***Music 160r. Composition: Proseminar**

Catalog Number: 8026

Richard Beaudoin

Half course (fall term). W., 4–6.

Open to students prepared for individual work in composition. Focus on the string quartet, including contemporary repertoire survey, short exercises, and a final project of modest dimensions. Incorporates readings and final performance of students' work.

Prerequisite: Music 150 or permission of instructor.

***Music 161r. Advanced Composition**

Catalog Number: 6714

Chaya Czernowin

Half course (spring term). M., 2–4.

Advanced course in musical composition. Consists of a mixture of one-on-one and group meetings.

Prerequisite: Music 150 or equivalent.

***Music 167r. Introduction to Electroacoustic Music**

Catalog Number: 3806 Enrollment: Limited to 10.

Hans Tutschku

Half course (fall term; repeated spring term). M., 2–4.

Composition/performance involving analog and digital electronic medium. Projects realized using recording gear and computers; study of relevant aspects of acoustic and electronic theory; compositions since 1948 of musique concrete, acousmatic and live-electronic music; synthesis, sampling, digital recording, and live performance techniques.

Prerequisite: One course in theory/composition or permission of instructor.

[Music 178r. Musicianship]

Catalog Number: 2339



Instructor to be determined

Half course (fall term). Hours to be arranged.

Note: Expected to be given in 2011–12. No previous experience required. Musicians and composers are welcome.

***Music 180r. Performance and Analysis: Seminar**

Catalog Number: 2294

Robert D. Levin and Daniel Stepner

Half course (fall term; repeated spring term). M., 7-10 pm, and an additional meeting to be arranged.

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. By audition only, prior to the first meeting.

***Music 182r. 17th- and 18th-Century Performance Practice**

Catalog Number: 1460

Robert D. Levin

Half course (spring term). Tu., 2–4.

Articulation, ornamentation, improvisation, and other stylistic domains are considered from the perspectives of historical evidence and modern performance.

Prerequisite: Music 150 or permission of instructor.

[Music 183r. 19th-Century and 20th-Century Performance Practice]

Catalog Number: 0117

Robert D. Levin

Half course (spring term). Tu., 2–4.

Evolution of performance style from the Classical era to the present day. The decline in the creative role of the performer and rapid technological developments are explored. Examination of contemporary treatises and performance styles. A dialogue between scholarship and performance is encouraged.

Note: Expected to be given in 2011–12.

Prerequisite: Music 150 or permission of instructor.

***Music 185r. Classical Improvisation - (New Course)**

Catalog Number: 72478 Enrollment: Limited to 12.

Robert D. Levin

Half course (fall term). Tu., 2–4.

Course will identify the contexts and theoretical concepts of 18th and early 19th century improvisation in vocal and instrumental music. Authentic written-out embellishments and cadenzas by composers and their contemporaries will be studied and used as a basis for both written and improvised work, to include decoration, cadenzas, preludes, modulating preludes, and free fantasies.

Note: By audition only, prior to the first class.

Prerequisite: Music 150 or the permission of instructor.



Music 186. Jazz Improvisation

Catalog Number: 40907

William Kirk Bares

Half course (spring term). Tu., 1–3.

Building upon Music 153, this course emphasizes rhythm, timbre, texture, signifying, blues aesthetics and other culturally valued aspects of jazz performances. Students will explore jazz's solo and group dynamics by improvising together.

Note: By audition only, prior to the first class.

Prerequisite: Music 153 or permission of instructor.

***Music 187r. Chamber Music Performance**

Catalog Number: 17431 Enrollment: Limited to 60.

Federico Cortese

Half course (fall term; repeated spring term). Hours to be arranged.

Instrumental chamber music is prepared in private coachings.

Note: Not for concentration credit. By audition prior to first class.

[Music 190gw (formerly Music 190rs). Topics in World Music: Proseminar]

Catalog Number: 7577

Richard K. Wolf

Half course (spring term). Hours to be arranged.

South Indian Music. Analytical and contextual approach to the classical music of South India.

Library or fieldwork project required.

Note: Expected to be given in 2011–12. By permission of instructor. This course, when taken for a letter grade, meets the General Education requirement for Aesthetic and Interpretive Understanding or the Core area requirement for Literature and Arts B. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past.

Music 190r. Topics in World Music: Proseminar

Catalog Number: 1312

Richard K. Wolf

Half course (spring term). Tu., 8–10.

Music and Subjectivity in Asia. Explores ethnographies of music in south, central, and east Asia that thematize emotion, displacement, alternative perception, individual expressivity, and other aspects of subjectivity. Library project required.

Note: For music concentrators or by permission of instructor.

Music 191r. Topics in Medieval and Renaissance Music: Proseminar

Catalog Number: 2524

Evan A. MacCarthy

Half course (fall term). W., 4–6.

The Music of Tudor England. Examines music created amidst the political and religious changes under Tudor monarchs, including the Eton Choirbook, emergent genres of Anglican liturgy, sacred Latin music of Tallis and Byrd, secular song, and instrumental music.

Note: For music concentrators or permission of instructor.



Music 191rs. Topics in Medieval and Renaissance Music

Catalog Number: 2871

Thomas Forrest Kelly

Half course (spring term). W., 3–5.

Early Polyphony: Music of the Winchester Troper. A practical and theoretical exploration of the earliest Western part-music, with emphasis on its first great repertory, from Winchester Cathedral about the year 1000.

Note: In collaboration with Benjamin Bagby and Katarina Livllanic, participants will have a performance option as part of the work of the course. Singers are especially welcome.

Music 192r. Topics in Music from 1600–1800: Proseminar

Catalog Number: 6726

Matthias Roeder

Half course (fall term). F., 1–3.

The String Quartets of Haydn, Mozart, and Beethoven. Analytical discussions and source studies of selected string quartets. Students prepare short presentations throughout the semester and discuss their research in a final presentation and paper.

Note: For music concentrators with permission of instructor.

[Music 193r. Topics in Music from 1800 to the Present: Proseminar]

Catalog Number: 3741

Sindhumathi Revuluri

Half course (fall term). W., 1–3.

Wagner and Debussy.

Note: Expected to be given in 2011–12. For music concentrators or with permission of instructor.

Music 193rs. Topics in Music from 1800 - Present

Catalog Number: 5935

Anne C. Shreffler and Carol J. Oja

Half course (spring term). Tu., 2–4.

The Operas of John Adams. Focus on Nixon in China, The Death of Dr. Klinghoffer, Doctor Atomic and I Was Looking at the Ceiling and Then I Saw the Sky. Looking at genre, politics, historical context, librettos, film adaptations and musical language.

Note: For music concentrators or with permission of instructor.

Music 194gs. Special Topics: Proseminar

Catalog Number: 2846

Sindhumathi Revuluri

Half course (spring term). W., 1–3.

Global Pop Music. Exploration of current trends and issues in popular music production from around the world, including fusion, sampling and local and global scenes, through consideration of a broad range of contemporary examples.

Note: For music concentrators or by permission of instructor. This course, when taken for a letter grade, meets the General Education requirement for Aesthetic and Interpretive Understanding or the Core area requirement for Literature and Arts B.



Cross-listed Courses

[Aesthetic and Interpretive Understanding 17 (formerly Literature and Arts B-78).

Soundscapes: Exploring Music in a Changing World]

[Aesthetic and Interpretive Understanding 24 \(formerly Literature and Arts B-51\). First Nights: Five Performance Premieres](#)

[Aesthetic and Interpretive Understanding 31 \(formerly Literature and Arts B-85\).](#)

[American Musicals and American Culture](#)

[African and African American Studies 182. R & B, Soul, and Funk]

[African and African American Studies 231. Topics in African American Literature and Arts](#)

[German 182. German Music in Culture and Politics](#)

[Literature and Arts B-54. Chamber Music from Mozart to Ravel]

[Literature and Arts B-82. Sayin' Something: Jazz as Sound, Sensibility, and Social Dialogue]

Primarily for Graduates

[Music Bhf. Exercises in Tonal Writing and Analysis](#)

Catalog Number: 3045

Olaf Leon Post

Half course (throughout the year). Hours to be arranged.

Includes theory (level of Music 150) as well as keyboard and ear training.

Note: Required of all graduate students. This requirement must be met before admission to the General Examination.

[Music 201a. Current Methods in Historical Musicology](#)

Catalog Number: 4975

Anne C. Shreffler and Sindhumathi Revuluri

Half course (fall term). Tu., 1–3.

Introduction to musicological scholarship drawing upon theoretical frameworks, and working methods of historical musicology. Includes aspects of the history of the discipline of musicology, as well as newer methodologies. Students will read relevant theoretical texts from other disciplines and consider the possibilities of interdisciplinary projects within musicology.

Note: Graduate students only. May be taken independently by students from other departments with permission of instructor.

[Music 201b. Current Methods in Ethnomusicology](#)

Catalog Number: 3995

Kay Kaufman Shelemay

Half course (spring term). Tu., 10–12. EXAM GROUP: 12, 13

Focuses on the introduction to scholarly study of music with emphasis on the history and methodologies of ethnomusicology. Theories of music in culture, field methods, analytical and notational strategies, and critical tools for scholarship.

Note: May be taken by students from other departments with permission of instructor.



Music 206r. Research Methods in Ethnomusicology: Musical Ethnography

Catalog Number: 6891

Kay Kaufman Shelemay

Half course (fall term). Tu., 10–12.

An introduction to the theories and methods of ethnomusicological fieldwork, including changing conceptions of the research site, ethical concerns, interview techniques, the ethnography of musical performance, and data analysis and interpretation.

Note: Individual research project required. Open to undergraduates with permission of instructor.

Music 207r. Ethnomusicology: Seminar

Catalog Number: 2149

Richard K. Wolf

Half course (fall term). M., 12–2. EXAM GROUP: 5, 6

Iranian Music: Improvisation, Poetry and Canonicity. Focuses on classical Iranian music and its relationship to performances of poetry and narrative in vernacular traditions. Includes performative component with visiting Iranian musician.

Note: Open to undergraduates with permission of instructor.

Music 207rs. Ethnomusicology: Seminar

Catalog Number: 8999

William Kirk Bares

Half course (spring term). M., 10–12.

Transatlantic Jazz. Chronicles the evolution of distinctive African American, American and European jazz perspectives over the past century of accelerating transatlantic cultural exchange. Using case studies and methodologies, examines their interrelationships in the context of broader geopolitical developments that have structured (and continue to structure) their interaction.

Note: Open to undergraduates with permission of instructor.

[Music 208r. Ethnomusicology: Seminar]

Catalog Number: 2232

Kay Kaufman Shelemay

Half course (fall term). Tu., 10–12.

Musical Communities. A cross-cultural and comparative approach to the social and musical process that give rise to musical communities. Research project required.

Note: Expected to be given in 2011–12. Open to undergraduates with permission of instructor.

[Music 209r. Ethnomusicology: Seminar]

Catalog Number: 4022

Ingrid Monson

Half course (spring term). Hours to be arranged.

Note: Expected to be given in 2011–12. Open to undergraduates with permission of instructor.

[Music 212r. Chant: Seminar]

Catalog Number: 4984

Thomas Forrest Kelly

Half course (spring term). Hours to be arranged.



Chant. The seminar will study the repertory and styles of Gregorian chant; particular attention will be given to the transmission of words and music in prosulae.

Note: Expected to be given in 2011–12. Open to undergraduates with permission of instructor.

[Music 213r. Topics in Medieval Polyphony]

Catalog Number: 8384

Instructor to be determined

Half course (spring term). Hours to be arranged.

Note: Expected to be given in 2011–12.

Music 214r. Johannes Tinctoris and 15th-Century Music: Seminar

Catalog Number: 7825

Evan A. MacCarthy

Half course (spring term). Th., 1–3.

Johannes Tinctoris and 15th Century Music. Seminar examines the theoretical and compositional output of a highly influential figure in the fifteenth century with an emphasis on changes in compositional practices and aesthetic priorities.

Note: Open to undergraduates with permission of instructor.

Music 216r. 18th-Century Music: Seminar

Catalog Number: 1802

Christoph Wolff and Matthias Roeder

Half course (spring term). M., 2–4.

Discovery of Ancient Music in the Age of Enlightenment. Case studies of exemplary works from Bach to Beethoven and their philosophical backgrounds.

Note: Open to undergraduates with permission of instructor.

[Music 216rs. Topics in 18th Century Music]

Catalog Number: 20136

Instructor to be determined

Half course (fall term). Hours to be arranged.

Note: Expected to be given in 2011–12. Open to undergraduates with permission of instructor.

Music 217r. 19th-Century Music: Seminar

Catalog Number: 9814

Sindhumathi Revuluri

Half course (spring term). Hours to be arranged.

Music and Empire. Considers the complex and dynamic relationship between music and various manifestations of empire from the 17th century to the present through engagement with critical theory and a variety of musical works.

Note: Open to undergraduates with permission of instructor.

[Music 218r. 20th-Century Music: Seminar]

Catalog Number: 0774

Instructor to be determined



Half course (fall term). Hours to be arranged.

Note: Expected to be given in 2011–12. Open to undergraduates with permission of instructor.

[Music 218rs. 20th-Century Music: Seminar]

Catalog Number: 0301

Instructor to be determined

Half course (spring term). Hours to be arranged.

Note: Expected to be given in 2011–12. Graduate students only, with priority given to Music Department graduate students.

[Music 218rt. 20th-Century Music: Seminar]

Catalog Number: 3970

Instructor to be determined

Half course (fall term). Hours to be arranged.

Note: Expected to be given in 2011–12. Expected to be given in 2011–12. Open to undergraduates with permission of instructor.

Music 219r. 19th- and 20th-Century Music

Catalog Number: 2275

Carol J. Oja

Half course (fall term). W., 1–3.

Classic Texts in U.S. Music. Intensive reading course exploring a broad range of musical genres, methodologies, and time periods. Interweaves titles from American Studies with those in music.

Note: Open to undergraduates with permission of instructor.

[Music 219rs. 19th and 20th Century Music]

Catalog Number: 1518

Instructor to be determined

Half course (spring term). Hours to be arranged.

Note: Expected to be given in 2011–12. Open to undergraduates with permission of instructor.

Music 220r. History of Music Theory - (New Course)

Catalog Number: 20956

Alexander Rehding

Half course (fall term). W., 10–12.

From Rameau to Riemann. Scale-degree and functional approaches to tonal harmony, discussion of seminal theoretical texts (Rameau, Sechter, Riemann, etc.), comparative music analyses to explore different conceptions of harmonic space and their limits.

Note: Open to undergraduates with permission of instructor.

[Music 221r. Current Issues in Music Theory]

Catalog Number: 5926

Instructor to be determined

Half course (spring term). Hours to be arranged.

Note: Expected to be given in 2011–12.



[Music 222r. Schenkerian Analysis I]

Catalog Number: 4055

Suzannah Clark

Half course (spring term). Hours to be arranged.

Introduction to the theories and graphing techniques of Heinrich Schenker and his followers through the analysis of selected works.

Note: Expected to be given in 2011–12. Open to undergraduates with permission of instructor.

Music 223r. Neo-Riemannian Analysis

Catalog Number: 6696

Alexander Rehding

Half course (spring term). Th., 10–12.

Neo-Riemannian Analysis. Explores the new body of transformational analytical techniques usually grouped as “Neo-Riemannian Theory.” Analysis of pertinent musical passages, discussion of key texts (Riemann, Lewin, Hyer, Cohn, Kopp), context and limits of these ideas.

Note: Open to undergraduates with permission of instructor.

Music 230r (formerly Music 230ar). Topics in Music Theory

Catalog Number: 5712

Christopher Hasty

Half course (fall term). Th., 10–12.

Rhythm. In conjunction with a review of theories of rhythm and psychological research concerning rhythm in music and language we will work to develop new conceptual and analytical strategies for the study of rhythm in a broad range of repertoires including non-Western and recent popular music.

Note: Music department graduate students only. Weekly writing assignments consists of reviews of reading and music analytic exercises.

Music 250hf. Colloquium on Teaching Pedagogy

Catalog Number: 92429

Kay Kaufman Shelemay

Half course (throughout the year). Fall: W., 3–5; Spring: W., 2–4. EXAM GROUP: Fall: 8, 9; Spring: 7, 8

The Craft of Teaching. Devoted to the craft of teaching, the course considers all major facets of academic teaching practices (lectures, tutorials, discussion, syllabi, advising, grading, etc.)

Note: Required of all third year graduate students.

Music 261r. Composition: Seminar

Catalog Number: 3326

John Luther Adams (spring term) and Chaya Czernowin (fall term)

Half course (fall term; repeated spring term). Hours to be arranged.

For first year graduate students prepared for work in original composition.

Music 262r. Composition: Seminar

Catalog Number: 4457

Chaya Czernowin



Half course (fall term; repeated spring term). Hours to be arranged.

For second year and advanced graduate students prepared for work in original composition.

[Music 264r. Electronic Music Composition: Seminar]

Catalog Number: 1939

Hans Tutschku

Half course (fall term). Tu., 2–4.

Note: Expected to be given in 2011–12. Music 264ra may be taken independently of Music 264rb.

Prerequisite: Previous knowledge of electronic music techniques, or permission of instructor.

Music 264rs. Electronic Music: Composition

Catalog Number: 3357

Hans Tutschku

Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17

Fine Arts and Electronic Music. In collaboration with the Harvard Museums.

Note: Music 264rb may be taken independently of Music 264ra.

Prerequisite: Previous knowledge of Max/MSP.

Music 265r. Orchestration

Catalog Number: 2379 Enrollment: Limited to 8.

Federico Cortese

Half course (spring term). Th., 3–5.

Focuses on composing for orchestral instruments in large ensembles and orchestras. It alternates classroom meetings and practical sessions with instrumentalists.

Note: Open to composition graduate students or with permission of instructor.

[Music 270r. Special Topics]

Catalog Number: 3727

Instructor to be determined

Half course (fall term). Hours to be arranged.

Note: Expected to be given in 2011–12.

Music 271r. Fromm Seminar in Composition

Catalog Number: 1311

John Luther Adams

Half course (spring term). W., 7–9 p.m.

Music and the Physical World. Drawing on sources from birdsong and landscape to physics and the science of ecology, composer John Luther Adams traces the evolution of his music and its deep roots in the physical world.

Music 272r. Special Topics

Catalog Number: 2059

Chaya Czernowin

Half course (fall term). M., 10–12.

Critical Analysis.



[*Music 272rs. Special Topics]

Catalog Number: 56551

Chaya Czernowin

Half course (spring term). M., 10–12.

Analysis and Critic of Recent Works.

Note: Expected to be given in 2011–12.

[Music 299r (formerly Music 299). Reading and Research for Masters]

Catalog Number: 6548

Christoph Wolff, Thomas Forrest Kelly, Robert D. Levin, and Alexander Rehding

Half course (fall term; repeated spring term). Hours to be arranged.

Individual work on specific topics leading to the completion of the masters thesis.

Note: Expected to be given in 2011–12.

Graduate Courses of Reading and Research

***Music 300. Reading and Research for Advanced Students**

Catalog Number: 2504

Richard Beaudoin 6255, Suzannah Clark 5718 (on leave 2010-11), Chaya Czernowin 6714, Christopher Hasty 4445, Thomas Forrest Kelly 1324, Robert D. Levin 3482, Ingrid Monson 1591, Carol J. Oja 4599, Alexander Rehding 4651, Sindhumathi Revuluri 5846, Kay Kaufman Shelemay 3483, Anne C. Shreffler 4656, Hans Tutschku 5147 (fall term only), Richard K. Wolf 1386, and Christoph Wolff 4532 (on leave fall term)

Individual work on specific topics not included in the announced course offerings.

***Music 301. Reading and Research**

Catalog Number: 6543

Suzannah Clark 5718 (on leave 2010-11), Christopher Hasty 4445, Thomas Forrest Kelly 1324, Ingrid Monson 1591, Carol J. Oja 4599, Alexander Rehding 4651, Sindhumathi Revuluri 5846, Kay Kaufman Shelemay 3483, Anne C. Shreffler 4656, Hans Tutschku 5147, Richard K. Wolf 1386, and Christoph Wolff 4532 (on leave fall term)

Individual work in preparation for the General Examination for the PhD degree.

Note: May not be counted toward course requirements for the PhD degree.

***Music 309. Doctoral Colloquium**

Catalog Number: 2260

Christopher Hasty 4445

Half course (spring term). Hours to be arranged.

***Music 310. Direction of Doctoral Dissertations**

Catalog Number: 1819

Suzannah Clark 5718 (on leave 2010-11), Chaya Czernowin 6714, Christopher Hasty 4445, Thomas Forrest Kelly 1324, Robert D. Levin 3482, Ingrid Monson 1591, Carol J. Oja 4599, Alexander Rehding 4651, Sindhumathi Revuluri 5846, Kay Kaufman Shelemay 3483, Anne C. Shreffler 4656, Hans Tutschku 5147, Richard K. Wolf 1386, and Christoph Wolff 4532 (on leave



fall term)

Note: May not be counted toward course requirements for the PhD degree.

Near Eastern Languages and Civilizations

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Department of Near Eastern Languages and Civilizations

Ali S. Asani, Professor of Indo-Muslim and Islamic Religion and Cultures (*Chair*)
Irit Aharony, Senior Preceptor in Modern Hebrew
M. Shahab Ahmed, Associate Professor of the Study of Religion (*on leave 2010-11*)
Khaled Al-Masri, Preceptor in Arabic
Mostafa Atamnia, Preceptor in Modern Arabic on the Ali Abdul Rahman Alturki Endowment
Jennifer Barbour, College Fellow in the Department of Near Eastern Languages and Civilizations
Shaye J.d. Cohen, Nathan Littauer Professor of Hebrew Literature and Philosophy
Khaled El-Rouayheb, Assistant Professor of Islamic Intellectual History
John L. Ellison, Lecturer on Near Eastern Languages and Civilizations
William Albert Graham, Murray A. Albertson Professor of Middle Eastern Studies
William E. Granara, Professor of the Practice of Arabic on the Gordon Gray Endowment
Rachel L. Greenblatt, Assistant Professor of Near Eastern Languages and Civilizations
Jay M. Harris, Harry Austryn Wolfson Professor of Jewish Studies
Wolfhart P. Heinrichs, James Richard Jewett Professor of Arabic (*on leave spring term*)
Feryal Hijazi, Preceptor in Arabic
Susan M. Kahn, Lecturer on Near Eastern Languages and Civilizations
Nevenka Korica, Preceptor in Modern Arabic
Peter Machinist, Hancock Professor of Hebrew and other Oriental Languages (*Director of Undergraduate Studies*)
Peter Der Manuelian, Philip J. King Professor of Egyptology
Wilfrid J. Rollman, Lecturer on Moroccan Studies
James R. Russell, Mashtots Professor of Armenian Studies
Richard J. Saley, Lecturer on Near Eastern Languages and Civilizations
Bernard Septimus, Jacob E. Safra Professor of Jewish History and Sephardic Civilization
Aharon Shemesh, Weinstock Visiting Associate Professor of Jewish Studies
P. Oktor Skjaervo, Aga Khan Professor of Iranian (*on leave spring term*)
Lawrence E. Stager, Dorot Professor of the Archaeology of Israel (*on leave fall term*)
Piotr Steinkeller, Professor of Assyriology (*Director of Graduate Studies*)
Benjamin John Studevent-Hickman, Lecturer on Assyriology



Himmet Taskomur, Preceptor in Ottoman and Modern Turkish
Yuri Vedenyapin, Preceptor in Yiddish
Ruth R. Wisse, Martin Peretz Professor of Yiddish Literature and Professor of Comparative Literature (*on leave fall term*)
Paul Herbert Wulfsberg, Preceptor in Arabic
Dalia Yasharpour, Preceptor in Persian
Malika Zeghal, Prince Alwaleed Bin Talal Professor in Contemporary Islamic Thought and Life

Other Faculty Offering Instruction in the Department of Near Eastern Languages and Civilizations

Ofer Bar-Yosef, George Grant MacCurdy and Janet G. B. MacCurdy Professor of Prehistoric Archaeology (*on leave fall term*)
Cemal Kafadar, Vehbi Koc Professor of Turkish Studies
Roy Mottahedeh, Gurney Professor of History (*on leave fall term*)
Andrew Teeter, Assistant Professor of Hebrew Bible/Old Testament (*Divinity School*)

Affiliates of the Department of Near Eastern Languages and Civilizations

Baber Johansen, Professor of Islamic Studies (*Divinity School*)
Jon D. Levenson, Albert A. List Professor of Jewish Studies (*Divinity School*)

Knowledge of a Near Eastern language is not required in courses designated as Near Eastern Civilizations, Ancient Near East, Jewish Studies, Early Iranian Civilizations, Islamic Civilizations, and Armenian Studies, unless otherwise stated.

Graduate students in the Faculty of Arts and Sciences may enroll in certain foreign language courses for the grade of Satisfactory/Unsatisfactory. Students should consult with course heads to determine if a course is offered on that basis.

Near Eastern Civilizations

Primarily for Undergraduates

Near Eastern Civilizations 90. Junior Seminars. These half courses are limited in enrollment with preference given to Near Eastern Languages and Civilizations concentrators in their junior years. Undergraduate non-concentrators may enroll in junior seminars on a space available basis.

[*Near Eastern Civilizations 91r. Supervised Reading and Research](#)

Catalog Number: 1132

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

Peter Machinist and members of the Department



Half course (spring term). M., 6–8 p.m. EXAM GROUP: 9

An introduction to the cultures and literatures of the Near East in ancient, classical, and modern times, emphasizing major themes and problems that cut across individual cultures and historical periods.

***Near Eastern Civilizations 98r. Tutorial — Junior Year**

Catalog Number: 2612

Peter Machinist and members of the Department

Half course (fall 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.

Cross-listed courses

[Culture and Belief 12. For the Love of God and His Prophet: Religion, Literature, and the Arts in Muslim Cultures]

Primarily for Graduates

Near Eastern Civilizations 200a. Approaches to Middle Eastern Studies: Proseminar

Catalog Number: 5918

Susan M. Kahn

Half course (fall term). M., 1–3. EXAM GROUP: 6, 7

Interdisciplinary seminar serves as an introduction to the major disciplines constituting Middle Eastern Studies, including history, political science, anthropology, literature and Islamic Studies. Faculty affiliated with Center for Middle Eastern Studies serve as guest lecturers.

Note: Required for students pursuing the AM in Middle Eastern Studies. Primarily for first-term students in the AM in Middle Eastern Studies program, although open to Graduate students in related fields.

Near Eastern Civilizations 200b. Middle Eastern Studies Research Project: Seminar

Catalog Number: 9274

Susan M. Kahn

Half course (spring term). M., 1–3. EXAM GROUP: 6, 7

This course introduces students to a range of research methods and scholarly sources in preparation for writing a proposal for the masters thesis in Middle Eastern Studies (students from other areas are welcome). Students are expected to formulate a research question, identify methods appropriate to their inquiry, compile a literature review, and write a thesis proposal. Successful completion of the course depends on the student's ability to secure the commitment of a thesis advisor by the end of the semester.



Note: Required for students who have elected to write a masters thesis in Middle Eastern Studies; open to graduate students in related fields.

Graduate Courses of Reading and Research

***Near Eastern Civilizations 300. Direction of Master's Thesis**

Catalog Number: 2448

Wolfhart P. Heinrichs 4988, William E. Granara 1054, Susan M. Kahn 4833, Jon D. Levenson (Divinity School) 2264, Roy Mottahedeh 1454, and John S. Schoeberlein 1016

***Near Eastern Civilizations 390. Direction of Doctoral Dissertations**

Catalog Number: 3041

Ali S. Asani 7739, Shaye J.d. Cohen 4180, William Albert Graham 4156, William E. Granara 1054, Jay M. Harris 2266, Wolfhart P. Heinrichs 4988 (on leave spring term), Jon D. Levenson (Divinity School) 2264, Peter Machinist 2812, James R. Russell 3411, Bernard Septimus 7160, P. Oktor Skjaervo 2869 (on leave spring term), Lawrence E. Stager 1468 (on leave fall term), Piotr Steinkeller 7337, and Ruth R. Wisse 3177 (on leave fall term)

Ancient Near Eastern and Biblical Studies

See also below under Akkadian and Sumerian, Aramaic, Hebrew, and Semitic Philology.

Primarily for Undergraduates

Cross-listed Courses

[Culture and Belief 13. The Contested Bible: The Sacred-Secular Dance](#)

[Culture and Belief 23 (formerly Literature and Arts C-70). From the Hebrew Bible to Judaism, From the Old Testament to Christianity]

[Literature and Arts A-70. The Book of Job and the Joban Tradition](#)

For Undergraduates and Graduates

[Ancient Near East 100. History of the Ancient Near East:](#)

Catalog Number: 0702

Benjamin John Studevent-Hickman

Half course (fall term). M., W., at 2.

This course provides an overview of the history of the ancient Near East, with a particular focus on ancient Mesopotamia. It begins with the advent of writing in the late fourth millennium B.C.E. and ends with the fall of Babylon to Cyrus the Great, in 539 B.C.E. The course combines archaeological, art historical, and textual data to explore the extraordinarily rich history of this region.

Note: Offered jointly with the Divinity School as 1115.



Ancient Near East 102. Introduction to Mesopotamian Religion

Catalog Number: 0486

Piotr Steinkeller

Half course (spring term). Tu., Th., at 11. EXAM GROUP: 13

A survey of the history and major concerns of ancient Mesopotamian religion from prehistoric times down to the reign of Alexander the Great. Among the topics treated are the key figures of the Sumero-Babylonian pantheon, the major mythological compositions (read in translation), personal religion, cosmogonies and theogonies, magic and divination, Mesopotamian temples, and cult and ritual. The course makes rich use of ancient iconography.

Note: Offered jointly with the Divinity School as 3661.

[Ancient Near East 104. Babylon]

Catalog Number: 63543

Benjamin John Studevent-Hickman

Half course (spring term). M., W., (F.), at 2.

An introduction to the ancient city of Babylon, including both its history as a seat of political power and its legacy in the Western tradition. Topics include the physical layout of the city, daily life in Babylonian society, what we know about such landmarks as the Hanging Gardens of Babylon and the Tower of Babel, and Babylonian contributions to literature, religion, law, and astronomy. Also covered are the city's use as a symbol of wickedness in the Judeo-Christian tradition, the future of the site, and the broader cultural heritage of ancient Iraq. The course integrates archaeological, art historical, and textual data from the Near East and beyond to explore these issues.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the General Education requirement for either Culture and Belief or Societies of the World, but not both. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Historical Study B.

[Ancient Near East 105. History of the Ancient Near East: The Levant (up to Alexander the Great)]

Catalog Number: 0711

Lawrence E. Stager

Half course (spring term). Tu., Th., at 12.

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 2011–12.

Ancient Near East 109r. History and Archaeology of the Ancient Near East

Catalog Number: 1822

Lawrence E. Stager and Peter Machinist

Half course (spring term). Th., 3–5.

Topic for 2010-11: The Assyrians in the Levant

Note: 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 (spring term). F., 1–3. EXAM GROUP: 6, 7

A chronological survey of the archaeology of the Levant in which material culture provides a window on human evolution, society, economy, and religion from the Lower Palaeolithic to Hellenistic times. Special topics include the earliest colonization of *Homo erectus*, the origin of modern humans, the emergence of farming and pastoral societies, the formation and dissolution of Bronze Age city-states, and the rise and fall of Iron Age kingdoms such as Israel, Moab, and Edom.

Note: Includes a lab section.

[Ancient Near East 117. Biblical Archaeology]

Catalog Number: 1371

Lawrence E. Stager

Half course (fall term). F., 1–3.

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 given in 2011–12. Offered jointly with the Divinity School as 1422. Includes a lab section.

[Ancient Near East 118. Syro-Palestinian Pottery]

Catalog Number: 1368

Lawrence E. Stager

Half course (fall term). F., 3–5.

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 given in 2011–12. Includes a lab section.

Ancient Near East 120 (formerly Ancient Near East 120a). Introduction to the Hebrew Scriptures

Catalog Number: 6544

Michael D. Coogan

Half course (fall term). Hours to be arranged.

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 124. Myth and Myth-Making in the Biblical and Ancient Near Eastern World]

Catalog Number: 7859

Peter Machinist

Half course (fall term). M., W., (F.), at 11.



An exploration of the nature and function of myth in the context of the ancient Near East. The course focuses on selected mythic texts from various Near Eastern cultures and consider them in the light of general approaches to myth developed in Western scholarship. Particular attention is given to the issue of myth in the Hebrew Bible.

Note: Expected to be given in 2012–13. Offered jointly with the Divinity School as 1128.

[Ancient Near East 126. History of the Religion of Ancient Israel]

Catalog Number: 1672

Peter Machinist

Half course (spring term). Hours to be arranged.

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 given in 2011–12. Offered jointly with the Divinity School as 1110.

[Ancient Near East 131. Readings in the Septuagint]

Catalog Number: 3661

Richard J. Saley

Half course (fall term). Tu., Th., at 12.

This course aims to increase facility with Septuagint Greek by reading representative prose portions of the Septuagint and studying the peculiarities of the grammar inductively. The fundamentals of Koine Greek will be reviewed as necessary.

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 4215.

Prerequisite: One year of Greek.

[Ancient Near East 132. Ancient Jewish Wisdom Literature]

Catalog Number: 9522

Jon D. Levenson (Divinity School)

Half course (spring term). M., W., 10–11:30.

A close critical reading and interpretation of works thought to derive from the Wisdom tradition of ancient Israel, through the Second Temple period. The workings of the world and the ways of God as they appear in works such as Proverbs, Job, Qohelet, Ben Sira, some Psalms, the Wisdom of Solomon, Fourth Maccabees, and Pseudo-Phocylides as well as narratives such as the Joseph story, Esther, and Daniel. Egyptian and Mesopotamian antecedents and parallels briefly considered. Emphasis on matters of worldview and literary form.

Note: Expected to be given in 2012–13. Offered jointly with the Divinity School as 1416.

Prerequisite: Ancient Near East 120 or an equivalent introduction to the historical-critical study of the Hebrew Bible.

[Ancient Near East 134. Genesis: Narrative Artistry and Theological Meanings]

Catalog Number: 3291

Jon D. Levenson (Divinity School)

Half course (spring term). M., W., 10–11:30.

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 will be given to literary and religious rather than historical and editorial issues.

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 1417.

Prerequisite: Ancient Near East 120 or an equivalent introduction to the historical-critical study of the Hebrew Bible.

Primarily for Graduates

Ancient Near East 210. Textual Criticism of the Hebrew Bible: Seminar

Catalog Number: 5492

Richard J. Saley

Half course (fall term). Tu., 3–6. EXAM GROUP: 17, 18

This course focuses on the art of recovering the text of the Hebrew Bible using Hebrew and Greek manuscripts as well as other early textual witnesses.

Note: Offered jointly with the Divinity School as 1819.

Prerequisite: At least two years of Hebrew and one year of Greek; some knowledge of Aramaic, Latin, and Syriac is beneficial but not required.

[*Ancient Near East 215r. Problems in the Archaeology of Bronze and Iron Age Levant: Seminar]

Catalog Number: 2960

Lawrence E. Stager

Half course (fall term). F., 3–5.

Topic for 2006-07: To be announced.

Note: Expected to be given in 2011–12. Conducted in the Harvard Semitic Museum Laboratory.

Ancient Near East 222. History of the Study of the Hebrew Bible: From the Renaissance to the Present: Seminar

Catalog Number: 8086

Peter Machinist

Half course (spring term). W., 3–5.

Surveys Hebrew biblical scholarship since the Renaissance, focusing on particular scholars and their representative and seminal works. The central theme is the emergence of and reactions to a historical-critical understanding of the Bible.

Note: Offered jointly with the Divinity School as 1425.

Prerequisite: A background in the study of the Hebrew Bible. Also, Biblical Hebrew and at least one of the following: French, German, and Modern Hebrew.

[Ancient Near East 225. The Greek Bible in History and Theology: Seminar]

Catalog Number: 2475

Andrew Teeter (Divinity School)

Half course (fall term). F., at 9.

An exploration of social, historical, interpretive, and theological issues associated with the so-called Septuagint and its complex relationship to early Judaism and Christianity. Emphases include origins, eschatology, messianism, halakhah, NT backgrounds, and biblical theology.



Note: Expected to be given in 2012–13. Offered jointly with the Divinity School as 1301.

Prerequisite: Basic reading knowledge of Greek and Hebrew.

Graduate Courses of Reading and Research

***Ancient Near East 310. Reading and Research in Ancient Near Eastern Archaeology**

Catalog Number: 4264

Lawrence E. Stager 1468 (on leave fall term)

***Ancient Near East 320. Reading and Research in Ancient Mesopotamian Civilization**

Catalog Number: 5678

Peter Machinist 2812 and Piotr Steinkeller 7337

***Ancient Near East 330. Reading and Research in Biblical Studies**

Catalog Number: 1524

Jon D. Levenson (Divinity School) 2264, Peter Machinist 2812, and Lawrence E. Stager 1468 (on leave fall term)

Postbiblical Jewish Studies

See also below under Aramaic, Hebrew, and Yiddish.

Primarily for Undergraduates

Jewish Studies 80. American Jews and the Television Age - (New Course)

Catalog Number: 84167

Rachel L. Greenblatt

Half course (spring term). M., W., at 11; F., 10–1. EXAM GROUP: 4

Examines the involvement of Jews in American mass entertainment, especially television, during the twentieth century. At a time when Jews were active in both the business and creative ends of the new media that came to dominate fields as seemingly diverse as popular culture and political discourse, Jewish leading characters were largely absent from prime time network television. Are there relationships among Jewish involvement in mass entertainment, the simultaneous absence of Jewish characters onscreen, and the role of television in American culture?

Cross-listed Courses

***History 70h. History and Memory - (New Course)**

For Undergraduates and Graduates

[Jewish Studies 104. Introduction to Yiddish Culture]

Catalog Number: 8611

Yuri Vedenyapin

Half course (spring term). W., 4–6.



Exploration of a thousand years of Jewish culture, from the earliest settlements in Germany and Poland to the present. Examination of its geographical, intellectual, and artistic breadth through the history of the Yiddish language, selections of Yiddish literature, the press, film, theater, and klezmer music. Analysis of Jewish mysticism and superstitions; food and dress; rituals and beliefs; gender, family, and sexuality. Particular attention given to the relevance of Yiddish culture today and its influence on the arts and politics in the U.S., Israel, Eastern Europe, and around the world.

Note: Expected to be given in 2011–12. All course readings and lectures will be in English. No knowledge of Yiddish is required. May be taken Pass/Fail. This course, when taken for a letter grade, meets the Core area requirement for Foreign Cultures.

[Jewish Studies 105. Modern Yiddish Poetry]

Catalog Number: 67625

Ruth R. Wisse

Half course (fall term). Hours to be arranged.

Introduction to Yiddish poetry 1890s-1970s, tracing its trends and movements through close study of major works in various genres-lyric, dramatic, narrative, epic. Includes poems written in Europe, America, and Israel. Uses bilingual editions with transliteration and voice recordings to examine issues and theories of translation.

Note: Expected to be given in 2011–12. No prior knowledge of Yiddish required-though may be acquired.

[Jewish Studies 109 (formerly Yiddish 109). The Yiddish Novel Under Tsars and Stripes]

Catalog Number: 6009

Ruth R. Wisse

Half course (spring term). Hours to be arranged.

Studies the emergence of the Yiddish novel as a major literary form in Russia, Poland, and the US. Begins with the pioneer of modern Yiddish and Hebrew prose, Mendele Mocher Sforim, includes Sholem Aleichem, Sholem Asch, David Bergelson, Der Nister, and the family Singer: Israel Joshua, Isaac Bashevis, and Esther Kreitman. Highly compressed development of the genre reflects great artistic, ideological, and thematic variety.

Note: Expected to be given in 2011–12. All works available in English translation. There will be an extra section for Yiddish readers.

[Jewish Studies 111. Modern Jewish Thought]

Catalog Number: 5461

Jay M. Harris

Half course (spring term). M., 2–4.

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 given in 2011–12. Offered jointly with the Divinity School as 3682.

Jewish Studies 135. Jewish-Arab Encounters: the Classical Age

Catalog Number: 3448

Bernard Septimus



Half course (spring term). M., W., at 12. EXAM GROUP: 5

An examination of Jewish-Arab cultural exchange against its socio-political backdrop, from the pre-Islamic period through the thirteenth century. Topics include: perceptions of the other; social relations; polemics; conversions; interchange in the realms of religion, law, literature, philosophy and mysticism; the end of the classical age. These topics will be explored through primary sources in translation.

Note: This course, when taken for a letter grade, meets the General Education requirement for Culture and Belief or the Core area requirement for Historical Study B. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past.

Jewish Studies 136. Jews and Greeks, Judaism and Hellenism - (New Course)

Catalog Number: 65408

Shaye J.d. Cohen

Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

A study of the encounter between Judaism and Hellenism in antiquity, from the Hasmonean revolt until the emergence of Rabbinic Judaism. The course will focus on the land of Israel but some attention, for purposes of contrast, will also be paid to the diaspora. Themes: definitions of "Judaism" and "Hellenism," religious and philosophical resistance and accommodation, knowledge of Greek, literary forms, the "common culture" of Hellenistic near east, art and architecture.

Note: Offered jointly with the Divinity School as 1461.

[Jewish Studies 147. Introduction to Pentateuch]

Catalog Number: 0588

Andrew Teeter (Divinity School)

Half course (spring term). Tu., Th., 10–11:30.

A critical introduction to the first five books of the Jewish and Christian Bible - the Pentateuch or Torah - with attention to essential literary, thematic, historical, and theological features, and with a view toward the continuing interpretive afterlife of these texts in Judaism and Christianity.

Note: Expected to be given in 2012–13. Offered jointly with the Divinity School as 1303.

[Jewish Studies 149. Topics in the Dead Sea Scrolls: Exegesis at Qumran]

Catalog Number: 54969

Andrew Teeter (Divinity School)

Half course (spring term). Th., 1–3.

This course explores the diverse functions of scripture within the literature of the Dead Sea Scrolls, focusing in particular on the forms and methods of interpretation attested, considered in light of other varieties of interpretation in early Judaism. Sessions will be devoted to reading, translation and discussion of primary sources in Hebrew, as well as to discussion of relevant secondary literature.

Note: Expected to be given in 2012–13. Offered jointly with the Divinity School as 1309.

Prerequisite: Two years of Biblical Hebrew strongly recommended.

[Jewish Studies 168. Eighth-Century Prophets]

Catalog Number: 14062



Michael D. Coogan

Half course (spring term). Hours to be arranged.

A close examination of the books of Amos, Hosea, Micah, and Isaiah 1-39, in their historical and social contexts.

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 1104.

[*Jewish Studies 170. Job and the Problem of Suffering]

Catalog Number: 80691

Michael D. Coogan

Half course (fall term). Hours to be arranged.

An examination of the book of Job and its poetic treatment of the human condition. The course will also consider other biblical and ancient Near Eastern texts that deal with the issue of evil in the world from a religious perspective, and later readings and retellings of Job by Frost, MacLeish, Wiesel, Fackenheim, and others.

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 1106.

Cross-listed Courses

[Aesthetic and Interpretive Understanding 29 (formerly Literature and Arts A-48). Moral Imagination in Modern Jewish Literature]

[Culture and Belief 13. The Contested Bible: The Sacred-Secular Dance](#)

[Culture and Belief 27 \(formerly Jewish Studies 55\). Among the Nations: Jewish History in Pagan, Christian and Muslim Context](#)

[*History 81f (formerly History 1127). Women's Voices in Medieval and Early Modern Europe]

[History 1020 (formerly History 1091). Jews and Judaism in the Ancient World]

[History 1025. Overlapping Spheres: Jewish Life in Early Modern Europe]

[History 1080 (formerly History 1150). The Jews in Muslim and Christian Spain]

[Literature 140. Literature and Politics - \(New Course\)](#)

[Literature 153 (formerly Comparative Literature 153). Saul Bellow and the New York Intellectuals]

[Literature 166 (formerly Comparative Literature 166). The Comic Tradition in Jewish Culture]

[Religion 1212a. Judaism: The Liturgical Year](#)

[Religion 1212b. Judaism: The Liturgical Year](#)

Primarily for Graduates

[*Jewish Studies 200r. Guided Readings in Jewish History](#)

Catalog Number: 4478

Shaye J.d. Cohen

Half course (fall term). M., 1–3. EXAM GROUP: 6, 7

Topic for 2010-11: Boundaries and Identities. Readings of Jewish texts, ancient to modern, that deal with the question of the Other and the Self: what is the boundary between Jews and non-Jews, and between Judaism and non-Judaism?



Note: Offered jointly with the Divinity School as 3709. Required of all entering graduate students in Jewish Studies; open to others with the permission of the instructor.

[Jewish Studies 206. The Origins of Mishnaic Law]

Catalog Number: 2808

Shaye J.d. Cohen

Half course (spring term). W., 1–3.

A study of the emergence of Jewish law in antiquity. Theme for 2009: The development of Sabbath law from the Bible to the Mishnah.

Note: Expected to be given in 2011–12. Open to undergraduates with the permission of the instructor. Offered jointly with the Divinity School as 3935.

Prerequisite: Ability to read Qumranic and Mishnaic texts in the original.

[Jewish Studies 207. Rewriting Scripture in Jewish Antiquity: Seminar]

Catalog Number: 9572 Enrollment: Limited to 15.

Andrew Teeter (Divinity School)

Half course (spring term). F., 11–1.

A study of the exegetical literature of so-called rewritten Bible texts from the Second Temple period, considered in relation to the received Hebrew Bible and its later interpretive traditions. Examination of exegetical techniques, aims, and presuppositions, with attention to higher level compositional strategies, underlying conceptions of scripture/scriptural authority, and the dynamics of canon formation. Primary sources will include, among others: the book of Jubilees, the Temple Scroll, Reworked Pentateuch, the Genesis Apocryphon, as well as selected prophetic and hymnic exemplars.

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 1302.

Prerequisite: Ability to read (unpointed) Hebrew.

Jewish Studies 215. Jewish Law from Qumran to the Mishnah: Seminar - (New Course)

Catalog Number: 28993

Shaye J.d. Cohen and Aharon Shemesh

Half course (spring term). W., 1–3.

The development of Jewish law in the period between the Bible and the Mishnah, with special attention to the Qumran scrolls. Topics include: the role of Scripture and the exegesis of Scripture; the "Oral Torah" and tradition; "common Judaism" and sectarianism; the Temple and the Temple calendar. No prerequisites; all texts read in translation.

Note: Offered jointly with the Divinity School as 3718.

Jewish Studies 220. The Nazir in ancient Judaism: Seminar - (New Course)

Catalog Number: 50301

Aharon Shemesh

Half course (spring term). M., 1–3.

Halakhic (legal), social and religious aspects of the phenomenon of nazir (Numbers 5) as reflected in second temple and rabbinic literature. Topics include: who became a *nazir* and why; social attitudes towards the *nazir*; the meaning of long hair; the reshaping of the biblical prescriptions by the rabbinic sages after the destruction of the temple.

Prerequisite: Ability to read Qumran scrolls and Mishnah in the original.



Graduate Courses of Reading and Research

***Jewish Studies 300. Reading and Research in Postbiblical Jewish Studies**

Catalog Number: 1544

Shaye J.d. Cohen 4180, Jay M. Harris 2266, Avi Matalon 4506, Bernard Septimus 7160, and Ruth R. Wisse 3177 (on leave fall term)

Early Iranian Civilizations

For Undergraduates and Graduates

See also below under Arabic, Aramaic, and Iranian.

Early Iranian Civilizations 102. Old Iranian Religion/Zoroastrianism

Catalog Number: 5408

P. Oktor Skjaervo

Half course (spring term). F., 1–3.

Introduction to and readings in Mazdaism/Zoroastrianism (on the basis of translated texts).

Note: Offered jointly with the Divinity School as 3663a.

Early Iranian Civilizations 103. Manicheism

Catalog Number: 2604

P. Oktor Skjaervo

Half course (fall term). F., 1–3. EXAM GROUP: 6, 7

Introduction to and readings in Iranian Manicheism (on the basis of translated texts).

Note: Offered jointly with the Divinity School as 3580.

Islamic Civilizations

See also below under Arabic, Iranian, and Turkish.

Primarily for Undergraduates

Cross-listed Courses

[Culture and Belief 12. For the Love of God and His Prophet: Religion, Literature, and the Arts in Muslim Cultures]

Culture and Belief 19 (formerly Foreign Cultures 70). Understanding Islam and Contemporary Muslim Societies

Foreign Cultures 82. Modern Arabic Narratives: Self, Society, and Culture

For Undergraduates and Graduates

[Islamic Civilizations 145. Introduction to Islamic Philosophy and Theology]

Catalog Number: 0292



Khaled El-Rouayheb

Half course (fall term). Th., 3-5, and a weekly section to be arranged.

An introductory survey of the development of Islamic theology and philosophy. We will examine and discuss some of the central problems that were much debated through the centuries, such as: the relationship between philosophy and faith; whether humans possess free will; how to understand apparently anthropomorphic expressions in Scripture; whether acts are good because God commands them or God commands them because they are good; and proofs for the existence of God.

Note: Expected to be given in 2012–13. Offered jointly with the Divinity School as 3602.

Islamic Civilizations 146. al-Ghazali: Theologian and Mystic

Catalog Number: 9561

Khaled El-Rouayheb

Half course (fall term). Th., 3–5. EXAM GROUP: 17, 18

Al-Ghazali (d.1111) is generally recognized to be one of the most influential of all Muslim religious thinkers. A prominent theologian and jurist, he experienced a spiritual crisis at the height of his career, and as a consequence explored mysticism (Sufism) and worked out a powerful synthesis between respect for the externals of the Islamic religion and the mystics' stress on the interior life. In this course, we will look in particular at his account of his spiritual crisis; his critical engagement with the Islamic Philosophers; and some of the more mystical works that he wrote toward the end of his life, including his theodicy, his meditations on the Qur'anic dictum that "God is the Light of the Heavens and the Earth", and select chapters from his great summa "The Revival of the Religious Sciences". All readings will be in English.

Note: Offered jointly with the Divinity School as 3599.

Prerequisite: No knowledge of Arabic required.

Islamic Civilizations 155. Introduction to the Qur'an - (New Course)

Catalog Number: 63777

Alnoor Dhanani

Half course (fall term). Tu., Th., 11:30–1 and a weekly section to be arranged. EXAM GROUP: 13, 14

An introductory survey of the Qur'an focusing on the context of its revelation, its compilation into a canonical text, its major themes, its classical and modern exegesis, its role in shaping the Islamic tradition and its institutions, and its place in Muslim everyday life, liturgy, ethics, and aesthetics.

Note: Offered jointly with the Divinity School as 3578.

Prerequisite: An introductory course in Islam or the equivalent will be helpful but is not essential.

Cross-listed Courses

History of Science 108. Bodies, Sexualities, and Medicine in the Medieval Middle East - (New Course)

History of Science 111. Two Scientific Revolutions: From the Classical Age of Islamic Sciences to the Scientific World of Early Modern Europe - (New Course)

History of Science 113. Crusades, Plagues and Hospitals: Medicine and Society in the



Islamic Middle Ages - (New Course)

Religion 1080. Modern States and Religion - (New Course)

[*Religion 1816. Ismaili History and Thought]

***Religion 1820 (formerly *Religion 1585). Muslim Societies in South Asia: Religion, Culture, and Identity**

Religion 1832. Political Islam in the 20th and 21st Centuries - (New Course)

Primarily for Graduates

[*Islamic Civilizations 215. Ibn 'Arabi]

Catalog Number: 95085

M. Shahab Ahmed

Half course (spring term). M., 2–4.

Readings in the life, thought, and historical influence of Muhy al-Din Ibn 'Arabi.

Note: Expected to be given in 2011–12.

***Islamic Civilizations 230. Islamic Modernism (I): The Criticism of the Jurists' Doctrines by the Mystical Reform Movements of the 18th and 19th Centuries: Seminar - (New Course)**

Catalog Number: 94782 Enrollment: Limited to 10.

Baber Johansen (Divinity School)

Half course (fall term). M., at 10, W., 4–6.

This seminar will focus on the 18th and 19th-century mystical critique of legal reasoning. Reform mystics claimed direct access to Koran and Sunna, a position that enabled them to formulate a mystical modernism.

Note: Offered jointly with the Divinity School as 3963.

***Islamic Civilizations 241r. Approaches to Studying Indo-Muslim Culture and South Asian Islam**

Catalog Number: 7515

Ali S. Asani

Half course (spring term). W., 1–3.

A seminar for graduate students focusing on current scholarship on Islamic civilization in South Asia.

Note: Open to undergraduates with a background in Islamic or South Asian studies.

Prerequisite: Introductory coursework on Islam, Religion 1820 or equivalent.

Cross-listed Courses

[Aesthetic and Interpretive Understanding 43 (formerly Literature and Arts B-35). Visual Culture of the Ottoman Empire Between East and West (15th - 17th Centuries)]

Culture and Belief 19 (formerly Foreign Cultures 70). Understanding Islam and Contemporary Muslim Societies

Foreign Cultures 82. Modern Arabic Narratives: Self, Society, and Culture

History 1877a (formerly History 1877). History of the Near East, 600-1055

[History 1877b (formerly *History 78b). History of the Near East, 1055-1500: Conference



Course]

[History 1878b. Ottoman State and Society II \(1550-1920\)](#)

[History 2884. Topics in Ottoman Social and Cultural History: Seminar](#)

[History 2886. Topics in Islamic History: Seminar](#)

[History of Science 209. Science and Islam: Debates, Approaches and Controversies: Seminar - \(New Course\)](#)

[*Religion 1820 \(formerly *Religion 1585\). Muslim Societies in South Asia: Religion, Culture, and Identity](#)

Graduate Courses of Reading and Research

***Islamic Civilizations 300. Reading and Research in Islamic Civilizations**

Catalog Number: 1963

M. Shahab Ahmed 5273 (on leave 2010-11), Ali S. Asani 7739, Khaled El-Rouayheb 5536, William Albert Graham 4156, William E. Granara 1054, and Wolfhart P. Heinrichs 4988 (on leave spring term)

Armenian Studies

See also below under Armenian.

For Undergraduates and Graduates

[Armenian Studies 100. Armenian Epic: Seminar](#)

Catalog Number: 2576

James R. Russell

Half course (spring term). W., 3–6. EXAM GROUP: 8, 9

Reading in translation of *The Wild Men of Sasun*, with analysis of native historical and mythological sources, and thematic comparison to epic poetry of the neighboring Iranians (Ossetic *Narts*, Persian *Shah-nameh*, Kurdish epic songs), Turks (*Dede Korkut*), and Greeks (*Digenes Akrites*).

[Armenian Studies 105. Survey of 19th and 20th Century Armenian Poetry: From Romantics to Revolutionaries]

Catalog Number: 3496

James R. Russell

Half course (spring term). Hours to be arranged.

A survey of the great innovators and visionaries: Bedros Tourian, Misak Medzarents, Yeghia Demirjibashian, Daniel Varouzhan, Siamanto, Vahan Teryan, Yeghishe Charents, and their English, Russian, and French colleagues and translators. The course spans the fateful epoch from the mid-19th century to the aftermath of the Russian Revolution.

Note: Expected to be given in 2011–12. Knowledge of Armenian preferred but not required.

Graduate Courses of Reading and Research



***Armenian Studies 300. Reading and Research in Armenian Studies**

Catalog Number: 1740

James R. Russell 3411

Akkadian and Sumerian

See also above under Ancient Near Eastern and Biblical Studies.

Akkadian

For Undergraduates and Graduates

Akkadian A. Beginning Babylonian

Catalog Number: 4891

Benjamin John Studevent-Hickman

Full course (indivisible). M., W., F., at 11. EXAM GROUP: 4

Introduction to the fundamentals of Babylonian (Akkadian) grammar and the most commonly encountered Neo-Assyrian cuneiform signs.

Akkadian 120. Intermediate Babylonian

Catalog Number: 3724

Piotr Steinkeller

Full course (indivisible). Tu., Th., 1–2:30. EXAM GROUP: 15, 16

Prerequisite: Akkadian grammar, basic vocabulary, knowledge of cuneiform script.

[Akkadian 141r (formerly Ancient Near East 141r). Akkadian Myths and Epics]

Catalog Number: 7618

Peter Machinist

Half course (fall term). Tu., 1–3.

Examination of selected Assyrian and Babylonian myths and epics from the latter second and first millennia B.C. Topic for 2009-10: TBA.

Note: Expected to be given in 2011–12.

Prerequisite: Akkadian grammar, basic vocabulary, knowledge of cuneiform script.

[Akkadian 149. Akkadian Legal and Economic Texts]

Catalog Number: 6703

Benjamin John Studevent-Hickman

Half course (fall term). Tu., Th., 1:30–3.

Note: Expected to be given in 2011–12.

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 2011–12.

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.

Note: Expected to be given in 2011–12.

Prerequisite: Two full courses in Akkadian.

Primarily for Graduates

[Akkadian 200r. Readings in Akkadian: Seminar](#)

Catalog Number: 2970

Piotr Steinkeller

Half course (spring term). Hours to be arranged.

Graduate Courses of Reading and Research

***Akkadian 300. Akkadian Language and Literature**

Catalog Number: 2233

Peter Machinist 2812, Piotr Steinkeller 7337, and Benjamin John Studevent-Hickman 6157

Sumerian

For Undergraduates and Graduates

[Sumerian A. Elementary Sumerian](#)

Catalog Number: 5260

Piotr Steinkeller and Benjamin John Studevent-Hickman (fall term)

Full course (indivisible). Fall: M., 2–4; Spring: M., 2–4. EXAM GROUP: Fall: 7, 8

Introduction to the Sumerian language with emphasis on grammatical structure.

[Sumerian 120. Intermediate Sumerian]

Catalog Number: 7399

Piotr Steinkeller and assistant

Full course (indivisible). Hours to be arranged.

Note: Expected to be given in 2011–12.

Prerequisite: Knowledge of basic Sumerian grammar, vocabulary, and cuneiform script.

[Sumerian 146. Sumerian Religious Literature](#)

Catalog Number: 2605

Piotr Steinkeller

Half course (fall term). Hours to be arranged.



[Sumerian 149. Sumerian Legal and Economic Texts]

Catalog Number: 8820

Piotr Steinkeller

Half course (spring term). Tu., 1–4.

Note: Expected to be given in 2011–12.

Primarily for Graduates

Sumerian 200r. Readings in Sumerian: Seminar

Catalog Number: 7496

Piotr Steinkeller

Half course (spring term). Hours to be arranged.

Graduate Courses of Reading and Research

***Sumerian 300. Sumerian Language and Literature**

Catalog Number: 7912

Piotr Steinkeller 7337

Cross-listed Courses

Linguistics 225a. Introduction to Hittite

Arabic

See also Islamic Civilizations.

For Undergraduates and Graduates

Arabic A. Elementary Arabic

Catalog Number: 5773

Khaled Al-Masri and staff

Full course (indivisible). M., through F., at 9, 10, 11, or 12. EXAM GROUP: 2, 11

Introduces students to the phonology and script of classical/modern standard Arabic and covers the basic morphology and syntax of the written language. Emphasis on the development of the four skills (reading, speaking, listening, and writing). Samples of modern (contemporary) and classical styles of writing introduced into basic syllabus, and audio-visual material from the contemporary Arabic media.

Note: Not open to auditors. Cannot be taken pass/fail. Cannot divide for credit. Offered jointly with the Divinity School as 4345.

Arabic Ba (formerly Arabic 120a and 121a). Intermediate Arabic I

Catalog Number: 1106

William E. Granara and staff

Half course (fall term). M. through F., at 10, 11, or 12. EXAM GROUP: 3, 12



A thorough review and continuation of literary (classic and modern) Arabic grammar with emphasis on reading, writing, speaking and listening comprehension. Course materials draw from both classical and modern Arabic literature and culture.

Note: Not open to auditors. Cannot be taken pass/fail. Offered jointly with the Divinity School as 4351.

Prerequisite: Arabic A or equivalent.

Arabic Bb (formerly Arabic 120b and 121b). Intermediate Arabic II

Catalog Number: 0973

William E. Granara and staff

Half course (spring term). M., through F., at 10, 11, or 12. EXAM GROUP: 3, 12

A continuation of Arabic Ba.

Note: Not open to auditors. Cannot be taken pass/fail. Offered jointly with the Divinity School as 4361.

Prerequisite: Arabic A or equivalent.

Arabic 130a. Upper-Level Classical Arabic I

Catalog Number: 4591

Khaled El-Rouayheb

Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

Concentration on readings from classical Islamic texts, with emphasis on Qur'an, hadîth, sîra, and tafsîr literature; directed readings and textual analysis; review of classical Arabic morphology and syntax.

Note: Not open to auditors. Offered jointly with the Divinity School as 4353.

Prerequisite: Arabic Ba or equivalent, or may be taken separately with permission of the instructor.

Arabic 130b. Upper-Level Classical Arabic II

Catalog Number: 2964

Khaled El-Rouayheb

Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

Continuation of Arabic 130a or may be taken separately with permission of the instructor.

Readings from corpus of "Adab" (Belles-Lettres) literature, as well as various pieces of classical Arabic poetry.

Note: Not open to auditors. Offered jointly with the Divinity School as 4354.

Prerequisite: Arabic 130a or equivalent, or may be taken separately with permission of the instructor.

Arabic 131a. Upper-Level Modern Arabic I

Catalog Number: 0739

Nevenka Korica

Half course (fall term). Section I: M. through Th., at 11; Section II: M. through Th., at 12. EXAM GROUP: 5, 14

Reading and discussion of selections from Arabic newspapers and journals on contemporary political, social, religious, and cultural issues in the Arab world. Emphasis on developing advanced reading and speaking skills, with some attention to writing and listening



comprehension.

Note: Not open to auditors.

Prerequisite: Arabic Ba or equivalent.

Arabic 131b. Upper-Level Modern Arabic II

Catalog Number: 0697

Nevenka Korica

Half course (spring term). Section I: M. through Th., at 11; Section II: M. through Th., at 12.

EXAM GROUP: 4, 13

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 essays.

Note: Not open to auditors.

Prerequisite: Arabic 131a or equivalent.

Arabic 133. Upper-Level Spoken Modern Standard Arabic

Catalog Number: 4747 Enrollment: Limited to 15.

William E. Granara

Half course (fall term). M., W., 3–5. EXAM GROUP: 8, 9

This course emphasizes the development of advanced speaking and listening skills by exposing students to the contemporary media and academia. Some reading and writing will be required, but classes will revolve around oral presentations and directed conversations.

Note: Not open to auditors.

Prerequisite: Two years of Standard Arabic or the equivalent.

Arabic 134. Colloquial Levantine Arabic

Catalog Number: 4154 Enrollment: Limited to 12.

Feryal Hijazi

Half course (spring term). M., W., 3–5. EXAM GROUP: 8, 9

Introduces students to Colloquial Levantine Arabic of Lebanon, Syria, Jordan, and Israel/Palestine. The course emphasizes the development of speaking and listening skills through the reinforcement of grammar and vocabulary.

Note: Not open to auditors. Students who have completed Arabic 135 may not take this course for credit.

Prerequisite: Two years of Standard Arabic or the equivalent.

[Arabic 135. Colloquial Egyptian Arabic]

Catalog Number: 4454 Enrollment: Limited to 12.

Instructor to be determined

Half course (spring term). M., W., 3–5.

Introduces students to Egyptian Arabic, the most widely recognized dialect in the Arab world.

The course emphasizes the development of speaking and listening skills through the reinforcement of grammar and vocabulary.

Note: Expected to be given in 2011–12. Not open to auditors. Students who have completed Arabic 134 may not take this course for credit.

Prerequisite: Two years of Standard Arabic or the equivalent.



[Arabic 150r. History of Classical Arabic Literature: Seminar]

Catalog Number: 7759

Wolfhart P. Heinrichs

Half course (spring term). W., 2–4.

Overview of Classical Arabic literature, including reading and discussion of selected texts.

Note: Expected to be given in 2011–12. Knowledge of Arabic advantageous but not required. An additional hour may be set aside for reading in the originals.

***Arabic 151. Qur'anic Texts - (New Course)**

Catalog Number: 12255 Enrollment: Limited to 18.

Alnoor Dhanani

Half course (spring term). Tu., 2–4.

Reading and discussion of selected Arabic texts from the Qur'an and exegetical traditions related to theology and mysticism.

Note: Offered jointly with the Divinity School as 3579.

Prerequisite: At least two years of Arabic or permission of the instructor.

[Arabic 158. Modern Arabic Literature Seminar: Lebanese Civil War in Fiction]

Catalog Number: 5145

William E. Granara

Half course (fall term). W., 4–6.

Examines the roots and issues of the Lebanese Civil War (1975-90) and its enormous impact on modern Arabic fiction. The syllabus pairs realistic and romanticized representations of family, sectarian, and gender binaries against the destruction and fantasy of the urban landscape. Themes include nostalgia and memory, exile and return. Films and documentaries will also be viewed.

Note: Expected to be given in 2011–12. Arabic helpful but not required. Open to both undergraduates and graduates. This course, when taken for a letter grade, meets the Core area requirement for Foreign Cultures or Literature and Arts C, but not both.

Arabic 160r. Readings in Arabic Historians, Geographers, and Biographers

Catalog Number: 5617

Roy Mottahedeh

Half course (spring term). Hours to be arranged.

Arabic 162. Introduction to the Modern Arab World I

Catalog Number: 5643

William E. Granara and members of the Department

Half course (fall term). Tu., Th., 12 and additional hour to be arranged. EXAM GROUP: 14

A survey of significant events and issues in the modern Arab world from the later years of the Ottoman Empire to the eve of WWI. Topics include the Arab renaissance, the challenges of modernity, reformist movements, colonialism, and the emergence of the modern nation states.

Note: No knowledge of Arabic required, but bilingual sectioning will be provided for students who select to read primary sources either in Arabic or English. Offered jointly with the Divinity School as 3623.



Arabic 170. Introduction to the Arab World II: Politics, Religion, and Culture from World War I to Present

Catalog Number: 9471

William E. Granara and members of the Department

Half course (spring term). M., W., at 12, and an additional hour to be arranged. EXAM GROUP: 5

The course examines the major intellectual, political and sociocultural trends in the Arab world, from the anti-colonial struggle to self-determination. Topics include Arab nationalism, political reform, cultural production, economic development, and the emergence of the Arabian Gulf.

Note: Bi-lingual sectioning will be provided for students who select to read primary sources either in Arabic or English. Offered jointly with the Divinity School as 3626. This course, when taken for a letter grade, meets the Core area requirement for Historical Study A.

Arabic 175r. Understanding Modern North Africa - (New Course)

Catalog Number: 69851

Wilfrid J. Rollman

Half course (spring term). M., W., at 12. EXAM GROUP: 5

An introduction to the history, politics, cultures, societies and economics of the modern Maghrib (Morocco, Algeria, Tunisia and Libya). Emphasis on the formation of evolving post-colonial identities within Islamic, Arabo-Berber, African, and Mediterranean contexts.

Note: Qualifies as a gateway course for secondary field in Islamic Studies.

Primarily for Graduates

Arabic 240a. Classical Arabic Philology

Catalog Number: 5920

Wolfhart P. Heinrichs

Half course (fall term). Tu., 2–4.

Arabic philology, including discussion of difficult grammatical problems, introduction to manuscript and editorial work, and readings from the *‘ulûm al-lugha* (fall) and *‘ulûm al-dîn* (spring).

Note: This constitutes the fourth and final year of the Classical Arabic track.

[Arabic 240b. Classical Arabic Philology: The Religious Disciplines] - (New Course)

Catalog Number: 68728

Wolfhart P. Heinrichs

Half course (spring term). Hours to be arranged.

Arabic philology, including discussion of difficult grammatical problems and readings from the religious disciplines.

Note: Expected to be given in 2011–12.

Arabic 241ar. Advanced Modern Arabic Bridge: Language, Literature, and Culture I

Catalog Number: 3309

Khaled Al-Masri

Half course (fall term). Tu., Th., 11:30-1, and an additional hour to be arranged. EXAM GROUP: 13, 14



This constitutes the final year of Modern Arabic track. Representative readings from contemporary literature and culture will form bases of discussions on major themes in contemporary Arab society.

Note: Conducted in Arabic. Not open to auditors.

Prerequisite: Advanced proficiency in Arabic.

Arabic 241br. Advanced Modern Arabic Bridge: Language, Literature, and Culture II

Catalog Number: 6399

Khaled Al-Masri

Half course (spring term). Tu., Th., 11:30-1, and an additional hour to be arranged. EXAM

GROUP: 13, 14

A continuation of Arabic 241ar.

Note: Conducted in Arabic. Not open to auditors.

[Arabic 246r. Andalus, Sicily, and the Maghrib in Literary and Cultural Texts: Seminar]

Catalog Number: 6196

William E. Granara

Half course (spring term). Hours to be arranged.

Literary and historical texts of the Arabo-Islamic cultures of Spain (*al-Andalus*), Sicily, and North Africa. Examines the emergence of a "Maghribi" identity amidst cross-cultural relations with the Christian North and the Muslim East.

Note: Expected to be given in 2011–12.

Prerequisite: Three years of Arabic, or permission from the instructor.

Arabic 248a. Medieval Arabic Writings on Grammar

Catalog Number: 1440

Wolfhart P. Heinrichs

Half course (fall term). W., 2–4.

Introduction to the study of the medieval Arabic disciplines dealing with literature. Discussion of selected topics on the basis of text readings and recent secondary literature.

Prerequisite: Reading knowledge of Arabic.

Arabic 248b. Medieval Arabic Writings on Grammar - (New Course)

Catalog Number: 38514

Wolfhart P. Heinrichs

Half course (fall term). W., 2–4.

Introduction to the study of the medieval Arabic disciplines dealing with language. Discussion of selected topics on the basis of text readings and recent secondary literature.

Note: Reading knowledge of Arabic.

[Arabic 249r. Arabic Philosophical Texts: Seminar]

Catalog Number: 3572

Khaled El-Rouayheb

Half course (spring term). Th., 2–4.

An introduction to Arabic Logic.



Note: Expected to be given in 2012–13.

Prerequisite: Three years of Arabic or equivalent.

Arabic 250r. Arabic Theological Texts: Seminar

Catalog Number: 7849

Khaled El-Rouayheb

Half course (spring term). Th., 3–5. EXAM GROUP: 17, 18

The Unity of Existence (Wahdat al-wujud): A Central Problem in Later Islamic Theology, Philosophy and Mysticism.

Note: Offered jointly with the Divinity School as 3883.

Prerequisite: Three years of Arabic or equivalent.

Cross-listed Courses

Comparative Literature 263. Journey, Exile, and Displacement in Modern Arabic Literature

Foreign Cultures 82. Modern Arabic Narratives: Self, Society, and Culture

Graduate Courses of Reading and Research

***Arabic 300. Reading and Research in Arabic Language and Civilization**

Catalog Number: 7828

M. Shahab Ahmed 5273 (on leave 2010-11), Khaled El-Rouayheb 5536, William Albert Graham 4156, William E. Granara 1054, Wolfhart P. Heinrichs 4988 (on leave spring term), Baber Johansen (Divinity School) 5295, and Roy Mottahedeh 1454 (on leave fall term)

***Arabic 320. Reading and Research in Modern Arabic Literature and Literary Criticism**

Catalog Number: 9167

William E. Granara 1054

Aramaic

For Undergraduates and Graduates

See also Ancient Near East and Biblical Studies, Jewish Studies, and Early Iranian Civilizations.

Aramaic A. Introduction to Ancient Aramaic

Catalog Number: 5985

Jennifer Barbour

Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

Introduction to the ancient Aramaic dialects, including Biblical Aramaic, Imperial Aramaic from Egypt, and Palestinian Aramaic.

Prerequisite: two semesters of Biblical Hebrew.

Aramaic B. Targumic and Related Aramaic

Catalog Number: 89499



Jennifer Barbour

Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

Readings in Egyptian, Palestinian and targumic Aramaic, with special focus on the grammar, literary form and function of the Targumim.

Prerequisite: Aramaic A or the equivalent.

[Aramaic C. Introduction to Syriac]

Catalog Number: 3494

Wolfhart P. Heinrichs and member of the Department

Full course (indivisible). Fall: Tu., Th., 8:30–10.

Basic Syriac grammar and syntax, with selected readings from the Syriac Bible and other early texts.

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 4109.

Graduate Courses of Reading and Research

***Aramaic 300. Aramaic Language and Literature**

Catalog Number: 5758

Shaye J.d. Cohen 4180 and Wolfhart P. Heinrichs 4988 (on leave spring term) (fall term only)

Armenian

See also Armenian Studies.

For Undergraduates and Graduates

[Armenian A. Elementary Classical Armenian](#)

Catalog Number: 5476

James R. Russell

Half course (fall term). Hours to be arranged.

Introduction to classical Armenian grammar and reading of selected texts.

[Armenian B. Elementary Modern Eastern Armenian](#)

Catalog Number: 7168

James R. Russell

Half course (spring term). W., 3–5:30. EXAM GROUP: 8, 9

Introduction to the spoken and literary language of the Republic of Armenia.

[Armenian 120. Armenian Magical Texts]

Catalog Number: 7221

James R. Russell

Half course (spring term). Th., 3–6.

Armenian magical texts include codices, scrolls, and separately-printed saints' lives used for good or ill, containing magic squares and symbols, the latter mostly deriving from Islamic magic. The course will consider literary sources of magic texts (e.g., the prayer Havatov



khostovanim, the meditations of Narek), parallel traditions (esp. Christian Ethiopia), and the consideration of the paintings in Armenian magical manuscripts from the standpoint of the genre of Outsider Art.

Note: Expected to be given in 2011–12.

Armenian 130. Advanced Classical Armenian

Catalog Number: 4926

James R. Russell

Full course. W., 5:30–7:30 p.m.

The text of St. Grigor Narekats'i *Matean olbergut'ean*, with other mystical texts from Armenian and Eastern Christian traditions.

Prerequisite: Armenian A.

Armenian Studies 102. Introduction to Armenian Civilization - (New Course)

Catalog Number: 50965

James R. Russell

Half course (fall term). Hours to be arranged.

A survey of the history and culture of the Armenian people from earliest times to the Genocide and Soviet era.

Note: This course, when taken for a letter grade, meets the Core area requirement for Foreign Cultures.

Graduate Courses of Reading and Research

***Armenian 300. Armenian Language and Literature**

Catalog Number: 0240

James R. Russell 3411

Egyptian

For Undergraduates and Graduates

Egyptian Aa. The Language of the Pharaohs: Introduction to Egyptian hieroglyphs I - (New Course)

Catalog Number: 13886

Peter Der Manuelian

Half course (fall term). M., W., 2–3:30.

This language course explores the fundamentals of Middle Egyptian, the classical stage of Egyptian hieroglyphs used throughout much of ancient Egyptian history. Lessons in the Egyptian writing system, grammar, and culture, with weekly vocabulary and exercises, will introduce the language and verbal system in a systematic fashion. By the end of the semester, students may begin to read selections from Egyptian classic stories and historical texts. Visits to the Semitic Museum and the Museum of Fine Arts, Boston, in order to read ancient hieroglyphic inscriptions on the original monuments, may also be included.

Note: Continues spring semester as Egyptian Ab. Offered jointly with the Divinity School as 4120.



Egyptian Ab. The Language of the Pharaohs: Introduction to Egyptian hieroglyphs II - (New Course)

Catalog Number: 80515

Peter Der Manuelian

Half course (spring term). M., W., 2–3:30. EXAM GROUP: 7, 8

Continues Middle Egyptian I from the fall semester. Students will complete the introductory grammar book lessons, and move on to read a selection of basic stories, historical and biographical inscriptions, in the original hieroglyphs. Visits to the Egyptian galleries of the Museum of Fine Arts, Boston, in order to read some of the ancient hieroglyphic inscriptions on the original monuments, may also be included.

Note: Offered jointly with the Divinity School as 4121.

Prerequisite: Egyptian Aa, Middle Egyptian I or consent of instructor.

Cross-listed Courses

Anthropology 1250. The Pyramids of Giza: Technology, Archaeology, History: Seminar - (New Course)
Societies of the World 38. Pyramid Schemes: The Archaeological History of Ancient Egypt - (New Course)

Hebrew

See also Ancient Near Eastern and Biblical Studies and Jewish Studies.

For Undergraduates and Graduates

[Hebrew 130. Scriptural Interpretation in Ancient Israel: Inner-Biblical Exegesis]

Catalog Number: 53182

Andrew Teeter (Divinity School)

Half course (fall term). Th., 1–3.

An examination of the forms, methods, and aims of scriptural interpretation within the Hebrew Bible itself. Sessions will combine consideration of recent scholarship on "inner-biblical exegesis" with close readings of biblical texts (narrative, legal, prophetic, apocalyptic, hymnic) in Hebrew. *Note:* Two years of Biblical Hebrew strongly recommended.

Note: Expected to be given in 2012–13. Offered jointly with the Divinity School as 1308. Two years of Biblical Hebrew strongly recommended.

[Hebrew 143. Deuteronomy]

Catalog Number: 68289

Andrew Teeter (Divinity School)

Half course (fall term). Th., 1–3.

A critical and exegetical study of Deuteronomy, carried out through a close reading of the book in Hebrew. Special attention given to the literary form, hermeneutic aims, and theological profile of the work, considered in relation to other scriptural and non-scriptural traditions.



Note: Expected to be given in 2012–13. Offered jointly with the Divinity School as 1306.

Prerequisite: Biblical Hebrew

Primarily for Graduates

***Hebrew 205. The Psalms - (New Course)**

Catalog Number: 92995 Enrollment: Limited to 25.

Michael D. Coogan

Half course (spring term). Tu., Th., 8:30–10.

A study of the book of Psalms, with special attention to its structure, principal genres, and interpretation, as well as to its continuing liturgical and devotional uses. Close reading of selected psalms.

Note: Offered jointly with the Divinity School as 1107.

[Hebrew 209r. Literature of Israel: Seminar]

Catalog Number: 1326

Peter Machinist

Half course (spring term). W., 3–5.

Topic TBA.

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 1824.

Prerequisite: Good reading knowledge of biblical Hebrew. Acquaintance with other relevant ancient and modern languages desirable.

Hebrew 230. Midrash: The Figure of Abraham: Seminar

Catalog Number: 7364

Jon D. Levenson (Divinity School)

Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17

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. Ample comparison with other primary sources about Abraham from Second Temple Judaism and the New Testament, presented in English.

Note: Offered jointly with the Divinity School as 1803.

Prerequisite: Sound reading knowledge of Hebrew (any period).

Language Courses

For Undergraduates and Graduates

Classical Hebrew A. Elementary Classical Hebrew

Catalog Number: 8125

Peter Machinist

Full course (indivisible). M., W., F., at 10. EXAM GROUP: 3

A thorough and rigorous introduction to biblical Hebrew, with emphasis on grammar in the first term, and translation of biblical prose in the second. Daily preparation and active class participation mandatory.

Note: Offered jointly with the Divinity School as 4010.



Classical Hebrew 120a. Intermediate Classical Hebrew I

Catalog Number: 5545

Peter Machinist and members of the Department

Half course (fall term). M., W., F., at 10. EXAM GROUP: 3

Readings in prose books; review of grammar.

Note: Offered jointly with the Divinity School as 4020.

Prerequisite: Classical Hebrew A or equivalent.

Classical Hebrew 120b. Intermediate Classical Hebrew II

Catalog Number: 8494

Peter Machinist and members of the Department

Half course (spring term). M., W., F., at 10. EXAM GROUP: 3

Readings in prose and poetic books; review of grammar.

Note: Offered jointly with the Divinity School as 4021.

Prerequisite: Classical Hebrew 120a or equivalent.

Classical Hebrew 130ar. Rapid Reading Classical Hebrew I

Catalog Number: 7895

Jon D. Levenson (Divinity School)

Half course (fall term). Th., 1–3. EXAM GROUP: 15, 16

Note: Offered jointly with the Divinity School as 1625.

Prerequisite: Classical Hebrew A, 120a, and 120b, or equivalent.

Classical Hebrew 130br. Rapid Reading Classical Hebrew II

Catalog Number: 7896

Jon D. Levenson (Divinity School)

Half course (spring term). Th., 1–3. EXAM GROUP: 15, 16

Note: Offered jointly with the Divinity School as 1626.

Prerequisite: Classical Hebrew 130a or equivalent.

Classical Hebrew 138. Historical Grammar of Biblical Hebrew

Catalog Number: 4415

Jennifer Barbour

Half course (spring term). Tu., 5–7 p.m. EXAM GROUP: 18

This course will trace the changes in Hebrew grammar in its ancient phases through the study of inscriptional, biblical, and extra-biblical texts.

Prerequisite: Classical Hebrew 130 or equivalent.

Modern Hebrew B. Elementary Modern Hebrew

Catalog Number: 4810

Irit Aharony

Full course (indivisible). Fall: M. through F., at 9; M. through F., at 10; Spring: M. through F., at 10. EXAM GROUP: 3, 12

The course introduces students to the phonology and script as well as the fundamentals of morphology and syntax of modern Hebrew. Emphasis is placed on developing reading, speaking, comprehension and writing skills, while introducing students to various aspects of contemporary



Israeli society and culture.

Note: Offered jointly with the Divinity School as 4015. Not open to auditors. Cannot be taken pass/fail. Cannot divide for credit.

Modern Hebrew 120a. Intermediate Modern Hebrew I

Catalog Number: 1711

Irit Aharony

Half course (fall term). M. through F., at 11. EXAM GROUP: 4, 13

The course reinforces and expands knowledge of linguistic and grammatical structures, with emphasis on further developing the four skills. Readings include selections from contemporary Israeli literature, print media, and internet publications. Readings and class discussions cover various facets of Israeli high and popular culture.

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

Irit Aharony

Half course (spring term). M. through F., at 11; F., at 12; F., at 12. EXAM GROUP: 4, 13

Continuation of Hebrew 120a.

Note: Conducted primarily in Hebrew. Offered jointly with the Divinity School as 4041.

Prerequisite: Modern Hebrew 120a.

Modern Hebrew 130a (formerly Modern Hebrew 125a). Advanced Modern Hebrew I

Catalog Number: 4985

Irit Aharony and assistant

Half course (fall term). M., W., 1:10-2:40.

This course constitutes the third and final year of the modern Hebrew language sequence. The course emphasizes the development of advanced proficiency in all skills. Readings include texts of linguistic and cultural complexity that cover contemporary Israeli literature and culture.

Note: Conducted in Hebrew.

Prerequisite: Modern Hebrew 120a, 120b, or equivalent level of proficiency.

Modern Hebrew 130b (formerly Modern Hebrew 125b). Advanced Modern Hebrew II

Catalog Number: 28788

Irit Aharony and assistant

Half course (spring term). M., W., 2:30-4:30.

This course is a continuation of Hebrew 130. Texts, films, and other materials expose students to the richness and complexity of the contemporary sociolinguistics of Israeli society.

Prerequisite: Modern Hebrew 130a, or equivalent level of proficiency.

Modern Hebrew 241br. Advanced Seminar in Modern Hebrew: Israeli Culture

Catalog Number: 6949

Irit Aharony

Half course (spring term). M., 7-9 p.m. and a weekly discussion section on F., 10-11:30.

This course proposes a look at humor and satire in Israel over the last 60 years in various media.



It focuses on political satire and it examines the complex relationship of Israeli humor to Jewish Humor in general.

Note: Discussion, papers and texts presented in Hebrew.

Prerequisite: Modern Hebrew 125a, 125b, or equivalent.

Literature and History Courses

For Undergraduates and Graduates

Hebrew 160. The Origins and Development of the Classical Jewish Liturgy

Catalog Number: 9703

Bernard Septimus

Half course (spring term). Th., 12:30–2:30.

An examination of current scholarship and controversy on the origins of the classical liturgy and a consideration of the primary-source evidence. Related topics include: rabbinic liturgy and Second Temple sources, differences between the ancient Palestinian and Babylonian rites, the standard prayers and the origins of liturgical poetry (*piyyut*), the crystallization of the liturgy, and the emergence of local variations in the early Middle Ages.

Prerequisite: A good reading knowledge of Hebrew.

Primarily for Graduates

***Hebrew 200r. Problems in the Literature, History, and Religion of Israel: Seminar**

Catalog Number: 3265

Peter Machinist, Richard J. Saley and members of the Department

Half course (fall term). Th., 3–5. EXAM GROUP: 17, 18

Topic for 2010-11: Kingship

Note: Primarily for doctoral students in Hebrew Bible. Offered jointly with the Divinity School as 1810.

***Hebrew 205. The Psalms - (New Course)**

Catalog Number: 92995 Enrollment: Limited to 25.

Michael D. Coogan

Half course (spring term). Tu., Th., 8:30–10.

A study of the book of Psalms, with special attention to its structure, principal genres, and interpretation, as well as to its continuing liturgical and devotional uses. Close reading of selected psalms.

Note: Offered jointly with the Divinity School as 1107.

Hebrew 208r. Literature of Israel: Seminar

Catalog Number: 1356

Peter Machinist

Half course (fall term). W., 3–5.

Topic for 2010-11: The book of Qohelet (Ecclesiastes).

Note: Jointly offered with the Divinity School as 1825.



Prerequisite: Good reading knowledge of Biblical Hebrew. Acquaintance with other relevant ancient and modern languages desirable.

[Hebrew 209r. Literature of Israel: Seminar]

Catalog Number: 1326

Peter Machinist

Half course (spring term). W., 3–5.

Topic TBA.

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 1824.

Prerequisite: Good reading knowledge of biblical Hebrew. Acquaintance with other relevant ancient and modern languages desirable.

[Hebrew 217. The Medieval Torah Commentary: A Practical Introduction: Seminar]

Catalog Number: 5883

Jon D. Levenson (Divinity School)

Half course (spring term). W., 1–3.

An introduction to the use of medieval Jewish biblical commentaries as a resource for modern exegetes. Some comparison of the medieval hermeneutical presuppositions with those of the distinctively modern forms of biblical study.

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 1836.

Prerequisite: Three years of college-level Hebrew (any period).

[Hebrew 218. Joseph and Esther: Seminar]

Catalog Number: 0880

Jon D. Levenson (Divinity School)

Half course (spring term). W., 1–3.

A close critical reading of Genesis 37-50 and the Book of Esther in Hebrew. Emphasis on literary design and religious messages and on the influence of the story of Joseph upon the Book of Esther.

Note: Expected to be given in 2012–13. Offered jointly with the Divinity School as 1802.

Prerequisite: Three years of Hebrew or the equivalent.

Hebrew 230. Midrash: The Figure of Abraham: Seminar

Catalog Number: 7364

Jon D. Levenson (Divinity School)

Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17

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. Ample comparison with other primary sources about Abraham from Second Temple Judaism and the New Testament, presented in English.

Note: Offered jointly with the Divinity School as 1803.

Prerequisite: Sound reading knowledge of Hebrew (any period).

[Hebrew 235. The Binding of Isaac (Aqedah): Seminar]

Catalog Number: 0170

Jon D. Levenson (Divinity School)



Half course (fall term). W., 1–3.

An examination of Genesis 22 and its afterlife in ancient Judaism, early Christianity, and the Qur'an. Ample consideration of the interpretation and expansion of the story in modern theology and of critical responses to it.

Note: Expected to be given in 2012–13. Offered jointly with the Divinity School as 1808.

Prerequisite: Three years of Hebrew or the equivalent.

Hebrew 236. Song at the Sea: Seminar

Catalog Number: 6496

Jon D. Levenson (Divinity School)

Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17

A close reading of Exod 13:17-15:21 in two contexts, that of the Hebrew Bible (together with its ancient Near Eastern background) and that of rabbinic Judaism. Ample Hebrew readings in rabbinic midrash.

Note: Offered jointly with the Divinity School as 1816.

Prerequisite: An introductory course in the critical study of the Hebrew Bible and a solid command of Hebrew grammar (any period).

Graduate Courses of Reading and Research

***Hebrew 300. Classical Hebrew Language and Literature**

Catalog Number: 7831

Shaye J.d. Cohen 4180, Jon D. Levenson (Divinity School) 2264, Peter Machinist 2812, and Lawrence E. Stager 1468 (on leave fall term)

***Hebrew 350. Postbiblical Hebrew Language and Literature**

Catalog Number: 4408

Shaye J.d. Cohen 4180, Jay M. Harris 2266, Jon D. Levenson (Divinity School) 2264, 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

Cross-listed Courses

Linguistics 221r. Workshop in Indo-European

Primarily for Graduates

Iranian 209b. Avestan III

Catalog Number: 6865



P. Oktor Skjaervo

Half course (fall term). Hours to be arranged.

Introduction to Old Avestan.

Prerequisite: Iranian 209a.

[Iranian 211r \(formerly Iranian 211r\). Eastern Middle Iranian II: Advanced Khotanese - \(New Course\)](#)

Catalog Number: 22206

P. Oktor Skjaervo

Half course (fall term). Hours to be arranged.

Advanced readings in Khotanese literature: Khotanese from Dunhuang

Prerequisite: Iranian 207r.

Graduate Courses of Reading and Research

***Iranian 300. Reading and Research in Iranian Languages and Literatures**

Catalog Number: 8155

P. Oktor Skjaervo 2869 (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

Dalia Yasharpour

Full course (indivisible). M., W., F., at 10, and two additional hours to be arranged. EXAM

GROUP: Spring: 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

Dalia Yasharpour

Half course (fall term). M., W., F., at 11, and two additional hours to be arranged. EXAM

GROUP: 4

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

Dalia Yasharpour



Half course (spring term). M., W., F., at 11, and two additional hours to be arranged. EXAM GROUP: 4
Continuation of Persian 120a.

[Persian 131r. Advanced Persian]

Catalog Number: 0258

Dalia Yasharpour

Half course (spring term). M., W., 2–3:30.

Readings from modern Persian prose and poetry and discussion of Iranian movies and documentaries inspired by them.

Note: Expected to be given in 2011–12.

Prerequisite: Persian 120b or equivalent.

Persian 132r. Advanced Persian

Catalog Number: 0814

Dalia Yasharpour

Half course (spring term). Hours to be arranged.

Introduces students to styles and genres of Classic Persian literary heritage, including a systematic review of classical grammar. Readings include historiographical, geographical and biographical texts, as well as readings from "Adab" (Belles-Lettres) literature.

Prerequisite: Persian 120b or equivalent.

Persian 150r. Readings in Persian Historians, Geographers and Biographers

Catalog Number: 6538

Roy Mottahedeh

Half course (spring term). Hours to be arranged.

Persian 160r. Readings in Indo-Persian Classical Literature - (New Course)

Catalog Number: 75847

Ali S. Asani

Half course (fall term; repeated spring term). Hours to be arranged.

Graduate Courses of Reading and Research

***Persian 300. Persian Language and Literature**

Catalog Number: 6962

Roy Mottahedeh 1454 (on leave fall term)

Semitic Philology

For Undergraduates and Graduates

Semitic Philology 152. Introduction to Ugaritic

Catalog Number: 2777

John L. Ellison

Half course (fall term). F., 2–4.



Introduction to Ugaritic grammar, with readings in mythological, epistolary, and administrative texts.

Prerequisite: Good working knowledge of Classical (biblical) Hebrew.

Primarily for Graduates

[Semitic Philology 200r. Comparative Semitic Grammar: Seminar]

Catalog Number: 0168

Instructor to be determined

Half course (spring term). Hours to be arranged.

Topic for 2011-12: To be determined.

Note: Expected to be given in 2011–12.

Prerequisite: Semitic Philology 152

Semitic Philology 220r. Northwest Semitic Epigraphy: Seminar

Catalog Number: 2948

John L. Ellison

Half course (spring term). F., 2–4.

Topic for 2010-11: Advanced discussion of Ugaritic grammar and texts.

Prerequisite: Semitic Philology 151.

Cross-listed Courses

Linguistics 221r. Workshop in Indo-European

Graduate Courses of Reading and Research

***Semitic Philology 300. Semitic and Afroasiatic Languages and Literatures**

Catalog Number: 2762

Wolfhart P. Heinrichs 4988 (on leave spring term)

Turkish

See also above under Near Eastern Civilizations; Islamic Civilizations.

For Undergraduates and Graduates

Turkish A. Elementary Modern Turkish

Catalog Number: 2527

Himmet Taskomur

Full course (indivisible). M. through F., at 10. EXAM GROUP: Fall: 3, 12

Emphasis on all aspects of Turkish grammar toward developing a solid foundation for speaking, listening, reading, writing, and vocabulary skills.

Note: Not open to auditors.



[Turkish 120a. Intermediate Modern Turkish I]

Catalog Number: 4009

Himmet Taskomur

Half course (fall term). M. through F., at 10.

Emphasis on complex sentence structure and building communicative competence in describing events and expressing ideas through exercises in reading, writing, and speaking.

Note: Expected to be given in 2011–12. Not open to auditors.

Prerequisite: Turkish A or equivalent.

[Turkish 120b. Intermediate Modern Turkish II]

Catalog Number: 1394

Himmet Taskomur

Half course (spring term). M. through F., at 10.

Studies in argumentative and literary prose.

Note: Expected to be given in 2011–12. Not open to auditors.

Prerequisite: Turkish 120a or equivalent.

[Turkish 121a. Elementary Uzbek]

Catalog Number: 3006

William E. Granara 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: Expected to be given in 2011–12. Some knowledge of Modern Turkish or other Turkic language helpful but not required.

[Turkish 121b. Elementary Uzbek II]

Catalog Number: 7303

William E. Granara and assistant

Half course (spring term). Hours to be arranged; four meetings per week.

Continuation of Turkish 121a.

Note: Expected to be given in 2011–12. Some knowledge of Modern Turkish or other Turkic language helpful but not required.

Turkish 125a. Intermediate Uzbek I

Catalog Number: 2947

William E. Granara and assistant

Half course (fall term). M., W., F., at 11. EXAM GROUP: 4

Continuation of Elementary Uzbek with an emphasis on further development of both conversational and literary Uzbek.

Note: Expected to be omitted in 2011-2012.

Prerequisite: Turkish 121b or equivalent.

Turkish 125b. Intermediate Uzbek II

Catalog Number: 0125

William E. Granara and assistant



Half course (spring term). M., 2–4, Th., 4–6.

A continuation of Turkish 125a.

Note: Expected to be omitted in 2011-2012.

Prerequisite: Turkish 125a or equivalent.

Turkish 140a. Introduction to Ottoman Turkish I

Catalog Number: 8163

Himmet Taskomur

Half course (fall term). M. through F., at 12.

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.

Note: Not open to auditors.

Prerequisite: Turkish A or equivalent; one year of Arabic or Persian desirable.

Turkish 140b. Introduction to Ottoman Turkish II

Catalog Number: 8298

Himmet Taskomur

Half course (spring term). Hours to be arranged.

Continuation of Turkish 140a. Exercises on specialized orthographic conventions and grammatical characteristics of Ottoman Turkish through readings in printed selections from the 19th and 20th centuries.

Note: Not open to auditors.

Prerequisite: Turkish 140a or equivalent.

Turkish 145. Readings in Ottoman Language and Culture: Early Modern Travel Literature

Catalog Number: 0095

Himmet Taskomur

Half course (spring term). Hours to be arranged.

Theme: "Early Modern Travel Literature". The course introduces students to various genres of travel writing by focusing on selected themes, including language registers, styles of travelogues.

Prerequisite: Advance reading proficiency in Ottoman Turkish.

[Turkish 150a. Advanced Ottoman Turkish]

Catalog Number: 91716

Himmet Taskomur

Half course (fall term). F., 2–4:30, Tu., 4–6.

Note: Expected to be given in 2011–12. Not open to auditors.

Prerequisite: Turkish 140 or equivalent; one year of Arabic or Persian desirable.

[Turkish 150b. Advanced Ottoman Turkish]

Catalog Number: 40194

Himmet Taskomur

Half course (spring term). Hours to be arranged.



Note: Expected to be given in 2011–12. Not open to auditors.

Prerequisite: Turkish 140 or equivalent; one year of Arabic or Persian desirable.

[Turkish 160r. History of Modern Turkey through Literature]

Catalog Number: 6964

Himmet Taskomur

Half course (spring term). M., W., at 12, and an additional hour to be arranged.

This course surveys the history of modern Turkey and culture through Turkish literature in translation. Main focus is on topics of cultural revolution, nationalism, identity, gender, and migration. Primary readings are translations of novels, short stories, drama and poetry.

Note: Expected to be given in 2011–12. Knowledge of Turkish not required. Not open to auditors.

Graduate Courses of Reading and Research

***Turkish 300. Turkish Languages and Literatures**

Catalog Number: 7702

Cemal Kafadar 2459 and F. Engin Sezer 2833

Yiddish

See also above under Near Eastern Civilizations: Jewish Studies.

Primarily for Undergraduates

[Culture and Belief 43. The World of Yiddish - \(New Course\)](#)

For Undergraduates and Graduates

[Yiddish A. Elementary Yiddish](#)

Catalog Number: 4623

Yuri Vedenyapin

Full course (indivisible). M., W., (F.), at 10. EXAM GROUP: 3

Introduction to the Yiddish language, as written and spoken in Eastern Europe, the Americas, Israel, and around the world, and to the culture of Ashkenazic Jews. Development of reading, writing, speaking, and oral comprehension skills. Course materials include rich selections from Jewish humor, Yiddish songs, and films of Jewish life past and present.

Note: For students with little or no knowledge of Yiddish. Additional sections at different times may be added as needed.

[Yiddish Ba. Intermediate Yiddish I](#)

Catalog Number: 6023

Yuri Vedenyapin

Half course (fall term). M., W., at 11. EXAM GROUP: 4

Further development of reading, writing, speaking, and oral comprehension skills. Introduction



to features of the main Yiddish dialects: Polish/Galician, Ukrainian/Volhynian, and Lithuanian/Belorussian. Course materials include selections from modern Yiddish fiction, poetry, songs, the press, and private letters, as well as pre-WWII and contemporary Yiddish films. Occasional visits from native Yiddish speakers.

Note: Additional sections at different times may be added as needed.

Prerequisite: Yiddish A or equivalent.

Yiddish Bb. Intermediate Yiddish II

Catalog Number: 1239

Yuri Vedenyapin

Half course (spring term). M., W., at 11; M., W., at 12. EXAM GROUP: 4

Continuation of Yiddish Ba.

Prerequisite: Yiddish Ba or permission of the instructor.

Yiddish Ca. Advanced Yiddish I

Catalog Number: 8331

Yuri Vedenyapin

Half course (fall term). M., W., 1–2:30. EXAM GROUP: 6, 7

Emphasis on building advanced vocabulary from the three main lexical components, Germanic, Hebrew-Aramaic, and Slavic, and further development of writing, reading, and speech.

Continued exploration of the main Yiddish dialects. Introduction to various styles of Yiddish literature, journalism, theater, film, and song, particularly from the nineteenth century to the present, including contemporary sources from both secular Yiddish culture and the Yiddish-speaking "ultra-orthodox" communities of New York, Jerusalem, and elsewhere.

Note: Additional sections at different times may be added as needed.

Prerequisite: Yiddish Bb or permission of the instructor.

Yiddish Cb. Advanced Yiddish II

Catalog Number: 8968

Yuri Vedenyapin

Half course (spring term). M., W., 1–2:30; M., W., 4–5:30. EXAM GROUP: 6, 7

Continuation of Yiddish Ca.

Prerequisite: Yiddish Ca or permission of the instructor.

[Yiddish 108. America! America! : The Contradictions of American Jewish Culture]

Catalog Number: 6058

Ruth R. Wisse

Half course (spring term). Hours to be arranged.

The mass migration that propelled millions of European Jews to the United States between 1881 and 1914 generated a renaissance in Jewish and American literatures. Yiddish was spoken at the time by more Jews than had ever simultaneously spoken any common Jewish language, and when they came in huge numbers to "the golden land," the Lower East Side of New York became a great creative outpost. Newfound freedoms of America inspired new directions in Yiddish literature, poetry, journalism, education, theater and film. Yet those same freedoms also prompted wholesale adoption of English among the second generation. Two parallel streams of culture—including a third in Hebrew—arose within the American Jewish community. Studying this



linguistic interaction will help identify its social, political, cultural, and aesthetic tribulations and achievements.

Note: Expected to be given in 2011–12. Course assumes no knowledge of Yiddish. Readings will be in English. There will be an extra section for Yiddish readers.

[Yiddish 110. Yiddish Drama on Stage and Screen]

Catalog Number: 5353

Ruth R. Wisse

Half course (spring term). Hours to be arranged.

Explores the development of Yiddish drama from the mid- 19th century to the present. Features major plays from the repertoire, stage and screen adaptations, theatrical innovations; competing aesthetic, political, and cultural trends. New translations make it possible to offer this course in English.

Note: Expected to be given in 2011–12. An extra section will be added for students who can read works in the original Yiddish.

[Yiddish 120. Modern Yiddish Classics: Seminar]

Catalog Number: 6574

Ruth R. Wisse

Half course (fall term). Hours to be arranged.

Late as compared with other European literatures, Yiddish was jump started in the last quarter of the 19th century by Mendele Mocher Sforim, Sholem Aleichem, and I.L. Peretz. This course examines the writings and cultural influence of these Masters, their shifting critical reception, modern perspectives on their work, adaptations and desiderata.

Note: Expected to be given in 2011–12. All readings in English translation. Additional section for Yiddish readers

Primarily for Graduates

Yiddish 200r. Modern Yiddish Literature: Seminar

Catalog Number: 4263

Ruth R. Wisse

Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17

Note: See Jewish Studies 105 and 109.

Prerequisite: Reading knowledge of Yiddish required.

Graduate Courses of Reading and Research

***Yiddish 300. Yiddish Language and Literature**

Catalog Number: 7833

Ruth R. Wisse 3177 (on leave fall term)



Neurobiology

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Committee on Degrees in Neurobiology

John E. Dowling, Gordon and Llura Gund Professor of Neurosciences (*Chair*)
 Randy L. Buckner, Professor of Psychology and of Neuroscience
 Florian Engert, Professor of Molecular and Cellular Biology
 Lisa V. Goodrich, Associate Professor of Neurobiology (*Medical School*)
 Takao K. Hensch, Professor of Molecular and Cellular Biology
 Edward A. Kravitz, George Packer Berry Professor of Neurobiology (*Medical School*)
 Samuel M. Kunes, Professor of Molecular and Cellular Biology (*on leave fall term*)
 Carole Landisman, Assistant Professor of Neurology (*Medical School*)
 Jeff W. Lichtman, Jeremy R. Knowles Professor of Molecular and Cellular Biology
 Margaret S. Livingstone, Professor of Neurobiology (*Medical School*)
 Eng H. Lo, Professor of Radiology (*Medical School*)
 Markus Meister, Jeff C. Tarr Professor of Molecular and Cellular Biology
 Venkatesh N. Murthy, Professor of Molecular and Cellular Biology
 Bence P. Olveczky, Assistant Professor of Organismic and Evolutionary Biology
 Naomi E. Pierce, Sidney A. and John H. Hessel Professor of Biology and Curator of Lepidoptera
 Aravinthan D. T. Samuel, Professor of Physics (*on leave fall term*)
 Joshua R. Sanes, Professor of Molecular and Cellular Biology
 Daniel L. Schacter, William R. Kenan, Jr. Professor of Psychology
 Naoshige Uchida, Associate Professor of Molecular and Cellular Biology
 Tamily A. Weissman, Lecturer on Molecular and Cellular Biology (*ex officio*)
 Yun Zhang, Assistant Professor of Biology

Other Faculty Offering Instruction in Neurobiology

Jeffrey Michael Ellenbogen, Assistant Professor of Neurology (*Medical School*)
 Steven E. Hyman, Professor of Neurobiology (*Medical School*)
 Edwin Malcolm Robertson, Assistant Professor of Neurology (*Medical School*)

The Neurobiology concentration is overseen by a Standing Committee, which includes representatives from several departments of the Faculty of Arts and Sciences and from other schools as appropriate to ensure the requisite breadth of the program. The concentration is designed to investigate how nervous systems organize behavior. It explores phenomena on vastly different scales, from molecules to societies, and draws on many of the classical disciplines for



experimental tools and explanatory frameworks. Neurobiology encompasses the study of individual nerve cells, connections and circuitry among neurons, and the function of the brain. For more information about Neurobiology courses and the Life Sciences concentrations, visit www.lifescience.fas.harvard.edu.

For graduate-level courses in neurobiology, please consult the Medical Sciences chapter.

Primarily for Undergraduates

The Neurobiology 95hf Program is taught by MCB, OEB, and Medical School faculty. Ordinarily the tutorials are half courses spread throughout the year and cannot be divided or combined for credit. Neurobiology tutorials are considered advanced neurobiology courses. Ordinarily, only one tutorial course may be counted toward the secondary field.

Students should feel free to contact the tutorial instructors directly. Their names, phone numbers, and e-mail addresses, as well as tutorial seminar course descriptions, are posted on the Life Sciences website under the concentration course listings at www.lifescience.fas.harvard.edu. Please consult the Neurobiology website for dates and times of first meetings.

Tutorials

[*Neurobiology 95hfd \(formerly *Biology 95hfd\). Problem Solving in Neuroscience: An Interactive Case-Based Online Network \(ICON\)](#)

Catalog Number: 3437

James J. Quattrochi

Half course (throughout the year). Th., 6:30–8 p.m. EXAM GROUP: 18

ICON facilitates decision making, hypothesis thinking, team cooperation, and student-faculty partnerships in neuroscience. Cases are "live" in real time using web-based modules that permit students to see the consequences of their decisions and to communicate in dialogue with case patients to achieve the best possible outcome. We collaborate in cases with students at Universitat Witten/Herdecke in Germany. ICON yields an additional advantage, linking theory with practice and an interdisciplinary competency in the life sciences.

Prerequisite: Life and Physical Sciences A or Life Sciences 1a, MCB 80, and permission of the instructor.

[*Neurobiology 95hfe. Synaptic Plasticity: How the Brain Learns, Remembers and Adjusts to Its Environment](#)

Catalog Number: 0277

Carole Landisman (Medical School)

Half course (throughout the year). M., 4–5:30. EXAM GROUP: 9

Come explore how individual neurons store information and change their synaptic strength. We will investigate the mechanisms of short- and long-term plasticity, starting with the early discoveries of long-term potentiation (LTP) and long-term depression (LTD) through recent discoveries of the effects of endocannabinoids on short-term plasticity. Learn how synaptic



plasticity plays a role in everything from perception to memory, in brain regions from the retina to the hippocampus.

Prerequisite: Life and Physical Sciences A or Life Sciences 1a, MCB 80, and permission of the instructor.

***Neurobiology 95hfg. More than Glue: Glial Cells in Health and Neurological Disease**

Catalog Number: 3370

Faculty A. Weissman and members of the Department

Half course (throughout the year). M., 7–8:30 p.m.

Glial cells (astrocytes, oligodendrocytes, and microglia) play an active role in both the normal physiology of the brain and the pathogenesis of many degenerative disorders. They modulate synaptic transmission, monitor brain "health", and secrete molecules that affect a variety of brain functions. This class will be an in-depth exploration into the normal function of glial cells and how their dysfunction can contribute to a variety of neurological disorders: MS, ALS, gliomas, regeneration, Alzheimer's disease, etc.

Prerequisite: Life and Physical Sciences A or Life Sciences 1a, MCB 80 and permission of the instructor.

***Neurobiology 95hfh. Bird Song and Human Language: Learning from the Birds**

Catalog Number: 2579

Faculty A. Weissman and members of the Department

Half course (throughout the year). M., 6–7:30 p.m.

This course approaches language with a heavy emphasis on the insights gained from birdsong research. We will read and discuss original publications showing that, like humans, songbirds are vocal learners. They go through developmental phases similar to those of their human counterparts (including babbling), exhibit regional song dialects, show critical periods and require auditory feedback for song learning and maintenance.

Prerequisite: Life and Physical Sciences A or Life Sciences 1a, MCB 80, and permission of the instructor.

***Neurobiology 95hfi (formerly *Biology 95hfi). The Sleeping Brain**

Catalog Number: 6361

Jeffrey Michael Ellenbogen (Medical School)

Half course (throughout the year). W., 4:30–6. EXAM GROUP: 9

This seminar will focus on the neuroscience of sleep. We will begin broadly, by employing a systems-level perspective on the neuroanatomy and neurophysiology of sleep. We will then focus on key regions in detail. We will introduce models of animal research, computational models, neuroimaging, electrophysiology, human disease, and a section on behavioral and cognitive neuroscience of sleep.

Prerequisite: Life and Physical Sciences A or Life Sciences 1a, MCB 80, and permission of the instructor.

[*Neurobiology 95hfk (formerly *Biology 95hfk). Mechanisms of Neurological Disease]

Catalog Number: 7431

Eng H. Lo (Medical School)

Half course (throughout the year). Hours to be arranged.



Advances in molecular and cellular biology have revealed similar basic mechanisms of brain cell death in a wide range of disorders (e.g. Alzheimer's, Parkinson's, stroke, etc). These pathways include excitotoxicity, oxidative stress, and apoptosis. This seminar examines (1) the molecular mechanisms of cell death, (2) the evidence that implicates specific pathways in specific disorders, and (3) rational therapeutic targets for disease.

Note: Expected to be given in 2011–12.

Prerequisite: Life and Physical Sciences A or Life Sciences 1a, MCB 80 and permission of the instructor.

[*Neurobiology 95hfm. Neuroanatomically Correct]

Catalog Number: 78904

Family A. Weissman

Half course (throughout the year). Fall: W., 4–5:30; Spring: W., 4–6. EXAM GROUP: Spring: 9

Are you curious about the brain structures and pathways that make up the nervous system? Are you familiar with regions such as the hypothalamus, but you don't recall their function and you can't identify them on a map? This course will focus on the many regions and pathways in the brain and spinal cord. We will cover both human and comparative neuroanatomy, placing an emphasis on function, neural circuitry and current research within each region.

Note: Expected to be given in 2011–12.

Prerequisite: Life and Physical Sciences A or Life Sciences 1a, MCB 80, and permission of the instructor.

***Neurobiology 95hfs. The Neurobiology of Stress - (New Course)**

Catalog Number: 44178 Enrollment: Limited to 12.

Family A. Weissman and members of the Committee

Half course (throughout the year). Fall: Tu., 7:30–9 p.m.; Spring: Tu., 7:35–9 p.m. EXAM GROUP: 18

Responses to stress are coordinated by the brain and allow organisms to adapt to environmental conditions. When and how can stress responses become maladaptive? This tutorial will explore the roles of psychosocial stress in adaptation, survival, and human disease. We will focus on current approaches to understanding the brain as a mediator of stress response and neurobiological mechanisms of stress-induced plasticity.

Prerequisite: Life and Physical Sciences A or Life Sciences 1a, MCB 80, and permission of the instructor.

***Neurobiology 95hft. The Electronics of the Brain - (New Course)**

Catalog Number: 29071 Enrollment: Limited to 12.

Family A. Weissman and members of the Faculty

Half course (throughout the year). Tu., 6:30–8:30 p.m.

The vast array of complex human emotions and behaviors - the spring in your step, the smile in your heart or the chip on your shoulder - can be reduced to electrical impulses in your brain, but what are they really? Through a discussion of primary literature we cover the range of neurons' electrical abilities, how these are used in nervous systems to transmit and encode information, and how these properties can go wrong in channelopathies.

Prerequisite: Life and Physical Sciences A or Life Sciences 1a, MCB 80 and permission of the instructor.



***Neurobiology 95hfu. Building a Brain - (New Course)**

Catalog Number: 74392

Faculty A. Weissman and members of the Faculty.

Half course (throughout the year). W., 7–8:30 p.m.

Neural connectivity underlies brain function. This tutorial focuses on discussing and debating research related to how synaptic connections can be influenced by genes, the environment, and chance to generate functional circuits and accommodate learning. In particular we will discuss molecular mechanisms, activity patterns (spontaneous and experience-evoked), and organizational rules implicated in synaptic formation and refinement in the context of many regions within the nervous system (retina, olfactory bulb, cortex, autonomic, and neuromuscular system).

Prerequisite: Life and Physical Sciences A or Life Sciences 1a, MCB 80 and permission of the instructor.

***Neurobiology 95hfx. The Neurobiology of Sex and Aggression - (New Course)**

Catalog Number: 59285 Enrollment: Limited to 12.

Faculty A. Weissman and members of the Department

Half course (throughout the year). Th., 8–9:30 p.m.

Ever wondered why animals are attracted to the opposite sex, why they attack other animals, or how they decide with whom to mate or to fight? We will study how genetic and neural pathways direct males and females to act the way they do. Topics covered include fighting flies, testosterone-promoted male behavior, same-sex sexual partners, and more. We will also discuss the way sex research is covered by the media and its social implications.

Prerequisite: Life and Physical Sciences A or Life Sciences 1a, MCB 80 and permission of the instructor.

***Neurobiology 95l. Neuropharmacology: Principles and Future Prospects**

Catalog Number: 53768

Steven E. Hyman (Medical School)

Half course (fall term). Th., 3–5. EXAM GROUP: 17, 18

Pharmacology is a cornerstone of treatment for neuropsychiatric disorders. However, the molecular targets of existing antidepressant, anxiolytic, and antipsychotic drugs date from the mid-20th century and yield treatments of limited efficacy. In this seminar we will examine what is known about the mechanism of action of important drug classes and the diseases they treat. We will ask how modern neurobiology and genetics might accelerate much needed progress.

Prerequisite: Life and Physical Sciences A or Life Sciences 1a, MCB 80 and permission of the instructor.

***Neurobiology 98r. Laboratory Research**

Catalog Number: 0494

Faculty A. Weissman and members of the Department

Half course (fall term; repeated spring term). Hours to be arranged.

This course is ordinarily taken to obtain credit for independent research leading to a senior thesis. Work should be directed by a member of the Neurobiology concentration standing committee.

Other research sponsors must be approved by the Head Tutor and require an appropriate co-sponsor. All students must submit registration materials for Neurobiology 98r at the time of



enrollment.

Note: Laboratory safety session required. This course can be taken twice for concentration credit.

***Neurobiology 99 (formerly *Neurobiology 99r). Honors Thesis Tutorial**

Catalog Number: 9400

Tammy A. Weissman and members of the Committee

Half course (fall term; repeated spring term). Hours to be arranged.

For honors candidates writing a thesis in Neurobiology. This course is ordinarily taken in the last semester of enrollment. The Head Tutor must approve a thesis proposal prior to enrolling in Neurobiology 99.

Note: Laboratory safety session required.

For Undergraduates and Graduates

[Neurobiology 130 (formerly Psychology 1205). Drugs and the Brain: From Neurobiology to Ethics]

Catalog Number: 4056

Steven E. Hyman (Medical School)

Half course (fall term). Hours to be arranged.

Progress in neuroscience has produced drugs and devices that not only treat mental and behavioral disorders, but can influence behavior in people who are not ill. Questions have been raised about whether such interventions might unduly influence identity, undermine personal responsibility, or have negative societal consequences. This course will examine how certain drugs (e.g., stimulants, antidepressants, addictive drugs) and devices act in the brain and the ethical and policy issues raised by their use.

Note: Expected to be given in 2011–12.

Prerequisite: MCB 80 or equivalent.

Cross-listed Courses in Neurobiology

[*BCMP 213. Behavioral Pharmacology]

Engineering Sciences 145. Physiological Systems Analysis

Engineering Sciences 149. Neural Control of Movement

***Life Sciences 100r (formerly *MCB 100r). Experimental Research in the Life Sciences**

MCB 80. Neurobiology of Behavior

MCB 105. Systems Neuroscience

MCB 115. Cellular Basis of Neuronal Function

[*MCB 129. Molecular Genetics of Neural Development and Behavior]

[MCB 131. Computational Neuroscience]

***MCB 145 (formerly *Neurobiology 95hfb). Neurobiology of Perception and Decision Making**

***MCB 146 (formerly *Neurobiology 95c). Experience-Based Brain Development: Causes and Consequences**

[MCB 147. Brain Circuits]

[*MCB 173. Optical Imaging in the Biological Sciences]

MCB 186. Circadian Biology: From Cellular Oscillators to Sleep Regulation



[MCB 206. Introduction to Connectomics]
[Neurobiology 204. Neurophysiology of Central Circuits](#)
[Neurobiology 207. Developmental Neurobiology](#)
[Neurobiology 209. Neurobiology of Disease]
[*Neurobiology 220. Cellular Neurophysiology](#)
[Neurobiology 221. Molecular Neurobiology](#)
[OEB 57 \(formerly Biological Sciences 57\). Animal Behavior](#)
[OEB 105 \(formerly OEB 205\). Neurobiology of Motor Control](#)
[OEB 145. Genes and Behaviors]
[OEB 174r. Topics in Behavioral Ecology]
[OEB 223. Topics in Neurogenetics]
[Physics 141. The Physics of Sensory Systems in Biology]
[*Psychology 1307. Brain Genomics: Seminar](#)
[Psychology 1430. Human Memory and Amnesia]
[*Psychology 2185. Unconscious Processing in Vision and Action]
[*Psychology 2381. Hot Topics in Cognitive Science and Neuroscience]
[*Psychology 2480. Human Neuropsychology/Neuroanatomy: Seminar](#)
[SCRB 180. Repair and Regeneration in the Mammalian Brain](#)

Oceanography

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Committee on Oceanography

Eli Tziperman, Pamela and Vasco McCoy, Jr. Professor of Oceanography and Applied Physics
(Chair)

Peter John Huybers, Assistant Professor of Earth and Planetary Sciences, Professor of Earth and Planetary Sciences

James J. McCarthy, Professor of Biological Oceanography

Daniel P. Schrag, Sturgis Hooper Professor of Geology and Professor of Environmental Science and Engineering

Courses in the various branches of oceanography are listed separately under the headings Earth and Planetary Sciences, Biology, and Engineering Sciences in this catalog. Further opportunities for study in oceanography exist at the Woods Hole Oceanographic Institution, at the Woods Hole Marine Biological Laboratory, and at MIT. Interested students are invited to contact members of the Faculty Committee on Oceanography for additional advice. The committee encourages undergraduate and graduate students to pursue sea-going and other oceanography-related



research projects, including during the summer, at a variety of possible institutions in the US and abroad. Interested students are encouraged to write the committee chair for specific advice on this and to apply for funding in order to pursue such oceanography-related projects, field work, or study opportunities.

Organismic and Evolutionary Biology

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Department of Organismic and Evolutionary Biology

John R. Wakeley, Professor of Organismic and Evolutionary Biology (*Chair and Director of Graduate Studies*)

Arkhat Abzhinov, Assistant Professor of Organismic and Evolutionary Biology

Andrew J. Berry, Lecturer on Organismic and Evolutionary Biology

Andrew A. Biewener, Charles P. Lyman Professor of Biology (*on leave 2010-11*)

Kirsten Bomblies, Assistant Professor of Organismic and Evolutionary Biology

Michael R. Canfield, Lecturer on Organismic and Evolutionary Biology

Jennifer A. Carr, Preceptor in Organismic and Evolutionary Biology

Colleen M. Cavanaugh, Edward C. Jeffrey Professor of Biology

Stacey A. Combes, Assistant Professor of Organismic and Evolutionary Biology

Mark Cornwall, Preceptor in Organismic and Evolutionary Biology

Charles C. Davis, Assistant Professor of Organismic and Evolutionary Biology, Professor of Organismic and Evolutionary Biology

Michael Manish Desai, Assistant Professor of Organismic and Evolutionary Biology and of Physics

Jacques Dumais, Associate Professor of Organismic and Evolutionary Biology

Scott V. Edwards, Professor of Organismic and Evolutionary Biology

Cassandra G. Extavour, Assistant Professor of Organismic and Evolutionary Biology

Brian D. Farrell, Professor of Biology

David R. Foster, Senior Lecturer on Biology

William Friedman, Arnold Professor of Organismic and Evolutionary Biology

Peter R. Girguis, John L. Loeb Associate Professor of the Natural Sciences

Gonzalo Giribet, Professor of Organismic and Evolutionary Biology

David A. Haig, George Putnam Professor of Organismic and Evolutionary Biology, Harvard College Professor (*Head Tutor*)

James Hanken, Professor of Biology and Curator of Herpetology (*on leave fall term*)

Daniel L. Hartl, Higgins Professor of Biology

Hopi E. Hoekstra, John L. Loeb Associate Professor of the Natural Sciences



N. Michele Holbrook, Charles Bullard Professor of Forestry (*on leave spring term*)
 Farish A. Jenkins, Jr., Professor of Biology and Curator of Vertebrate Paleontology (*on leave spring term*)
 Andrew H. Knoll, Fisher Professor of Natural History and Professor of Earth and Planetary Sciences
 Elena M. Kramer, Professor of Organismic and Evolutionary Biology
 George V. Lauder, Henry Bryant Bigelow Professor of Ichthyology
 Jonathan Losos, Monique and Philip Lehner Professor for the Study of Latin America and Curator in Herpetology
 Christopher Marx, Associate Professor of Organismic and Evolutionary Biology
 James J. McCarthy, Professor of Biological Oceanography
 Paul R. Moorcroft, Professor of Organismic and Evolutionary Biology
 Martin A. Nowak, Professor of Mathematics and of Biology (*on leave fall term*)
 Bence P. Olveczky, Assistant Professor of Organismic and Evolutionary Biology
 Manus M. Patten, Preceptor in Organismic and Evolutionary Biology
 Donald H. Pfister, Asa Gray Professor of Systematic Botany and Curator of the Farlow Library and Herbarium
 Naomi E. Pierce, Sidney A. and John H. Hessel Professor of Biology and Curator of Lepidoptera
 Anne E. Pringle, Associate Professor of Organismic and Evolutionary Biology
 Andrew Richardson, Assistant Professor of Organismic and Evolutionary Biology
 Pardis Sabeti, Assistant Professor of Organismic and Evolutionary Biology
 Robert M. Woollacott, Professor of Biology and Curator of Marine Invertebrates in the Museum of Comparative Zoology
 Yun Zhang, Assistant Professor of Biology

Other Faculty Offering Instruction in Organismic and Evolutionary Biology

William H. Bossert, David B. Arnold, Jr. Professor of Science
 Michael S. Gilmore, Charles L. Schepens Professor of Ophthalmology (*Medical School*)
 Peter Godfrey-Smith, Professor of Philosophy
 Arthur L. Lage, Associate Professor of Surgery (*Medical School*)
 Daniel E. Lieberman, Professor of Human Evolutionary Biology, Harvard College Professor

Primarily for Undergraduates

[OEB 10. Foundations of Biological Diversity](#)

Catalog Number: 7967

Brian D. Farrell and Andrew H. Knoll

Half course (fall term). M., W., F., at 12, and three hours of laboratory/discussion section weekly, including field trips to marine and forest environments. EXAM GROUP: 5

An integrated approach to the diversity of life, emphasizing how chemical, physical, genetic, ecological and geologic processes contribute to the origin and maintenance of biological diversity. Topics to be covered include the evolution of metabolic pathways, multicellularity and structural complexity; causes and consequences of differences in diversity over space and time; the role of species interactions (including symbioses) as an evolutionary force; and the evolution of humans and their impact on the environment.



Note: Knowledge of introductory molecular, cellular biology, and genetics is recommended. This course, when taken for a letter grade, meets the General Education requirement for Science of Living Systems or the Core requirement for Science B.

OEB 51 (formerly OEB 110). Biology and Evolution of Invertebrate Animals

Catalog Number: 7873 Enrollment: Limited to 12.

Cassandra G. Extavour and Gonzalo Giribet

Half course (spring term). Lectures Tu., Th., 10-11:30; laboratory on Wednesdays with hours to be arranged. EXAM GROUP: 12, 13

Introduction to invertebrate diversity, will cover the development, adult anatomy, biology and evolutionary relationships of the main animal phyla including sponges, mollusks, annelids and arthropods among others. Special emphasis is placed on understanding the broad diversity of animal forms and their adaptations to different ecosystems and how these phenomena shape animal evolution. Lectures will be complemented with a mandatory weekly lab and a field trip to different areas of outstanding marine diversity in the Caribbean.

Note: Field trip to the Caribbean for research during spring break.

Prerequisite: LS1b, OEB 10, OEB 53 or permission of instructor required.

OEB 52 (formerly OEB 124). Biology of Plants

Catalog Number: 1343

Jacques Dumais, N. Michele Holbrook, and Elena M. Kramer

Half course (spring term). Tu., Th., 10-11:30, one afternoon laboratory per week, plus occasional field trips. EXAM GROUP: 12, 13

Introduction to the structure, diversity, and physiology of plants with an emphasis on evolutionary relationships and adaptations to life on land. Topics include growth, resource acquisition, interactions with other organisms (i.e., fungi, bacteria, insects), reproduction, and survival in extreme environments. Laboratory sessions provide an overview of plant and diversity and an introduction to basic physiological processes.

Note: This course, when taken for a letter grade, meets the General Education requirement for Science of Living Systems or the Core area requirement for Science B.

OEB 53 (formerly Biological Sciences 53). Evolutionary Biology

Catalog Number: 3342

Andrew J. Berry and Hopi E. Hoekstra

Half course (spring term). M., W., 1-2:30. EXAM GROUP: 6, 7

The course covers micro- and macro-evolution, ranging in its focus from population genetics through molecular evolution to the grand patterns of the fossil record. Topics emphasized include both natural and sexual selection, the ecological context of adaptation, genomic and developmental mechanisms of evolutionary innovation, speciation, phylogenetics, and evolutionary approaches to human problems.

Note: This course, when taken for a letter grade, meets the Core requirement for Science B.

Prerequisite: Life Sciences 1b or permission of instructor.

OEB 54. Biology of the Fungi

Catalog Number: 9326

Donald H. Pfister and Anne Pringle



Half course (fall term). Tu., Th., 1-2:30, and a weekly laboratory on Tu., 2:30 -5. EXAM GROUP: 15, 16

This course explores the fascinating diversity of the kingdom fungi, including evolution, ecology and morphology. All of the major groups of fungi, from smuts to molds, will be included.

Students use a variety of techniques to learn about these organisms and their activities.

Note: There is a weekly laboratory, and several afternoon field trips are required (dates to be announced). This course, when taken for a letter grade, meets the Core area requirement for Science B.

Prerequisite: Life Sciences 1a and 1b or permission of instructor.

OEB 55 (formerly Biological Sciences 55). Ecology: Populations, Communities, and Ecosystems

Catalog Number: 3365

Paul R. Moorcroft

Half course (spring term). M., W., F., at 10, and a weekly discussion section, and two field trips on either Saturdays or Sundays during mid-April to early-May. 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, population dynamics, predator-prey interactions, herbivore effects, community ecology, ecosystem structure, stability and function, and resource management.

Note: This course, when taken for a letter grade, meets the Core requirement for Science B.

Prerequisite: Mathematics 1b.

OEB 57 (formerly Biological Sciences 57). Animal Behavior

Catalog Number: 2539

Naomi E. Pierce and Bence P. Olveczky

Half course (spring term). Tu., Th., at 10; Guest lectures and film screenings W., at 7:30 pm; one hour discussion section weekly. EXAM GROUP: 12

A review of the behavior of animals under natural conditions, with emphasis on both mechanistic and evolutionary approaches. Topics include classical ethology; behavioral endocrinology; behavioral genetics; learning and memory; communication; orientation, migration and biological rhythms; optimal foraging; evolutionary stable strategies; sexual selection; parental investment and mating systems; selfishness, altruism, and reciprocity; and sociality in vertebrates and invertebrates.

Note: This course, when taken for a letter grade, meets the Core area requirement for Science B.

OEB 59 (formerly OEB 104). Plants and Human Affairs

Catalog Number: 5281

Donald H. Pfister and Charles C. Davis

Half course (fall term). M., W., at 10. EXAM GROUP: 3

An introduction to the uses of plants by humans. Topics include the form, structure and genetics of plants related to their use as sources of food, shelter, fiber, flavors, beverages, drugs, and medicines. Plant structure and reproduction are studied in lecture and laboratory with a particular focus on relationships between the plant's structural, chemical, or physiological attributes and the utility plant.



Note: This course, when taken for a letter grade, meets the Core requirement for Science B.

Prerequisite: OEB 10 or permission of the instructor.

OEB 91r. Supervised Reading

Catalog Number: 6374

David A. Haig and members of the Department

Half course (fall term; repeated spring term). Hours to be arranged.

Supervised reading on topics not covered by regular courses. For OEB concentrators, work may be supervised by faculty in other departments, provided it is co-sponsored by an OEB faculty member. For non-concentrators, work must be directed by an OEB faculty member. Students must submit a registration request to the OEB Undergraduate Office before enrollment. Students cannot take OEB 91r and 99r simultaneously with the same director.

***OEB 99r. Supervised Research**

Catalog Number: 7744

David A. Haig and members of the Department

Half course (fall term; repeated spring term). Hours to be arranged.

Course taken in one or more semesters to obtain credit for independent research, including research toward a senior thesis. Work should be directed by an OEB faculty member or have an OEB faculty sponsor. All students must submit registration materials for OEB 99r at the time of enrollment.

Note: Laboratory safety session required.

For Undergraduate and Graduates

OEB 100. Evolution in Action

Catalog Number: 9930 Enrollment: Limited to 16.

Christopher Marx

Half course (spring term). M., 4–5:30.

In this project based laboratory course students will conduct research utilizing experimental evolution of microbial populations. The research will address questions that synthesize knowledge of genetics, biochemistry, systems biology, microbiology, evolution and ecology.

Prerequisite: Life Sciences 1a and 1b or permission of the instructor required. Open to students from any concentration

OEB 103. Plant Systematics and Evolution

Catalog Number: 8704

Charles C. Davis

Half course (spring term). Tu., Th., 1–2:30, and a four hour lab on Fridays.

An introduction to the diversity and evolution of vascular plants. The course focuses mainly on flowering plants because of their dominant role on the earth, but lycophytes, ferns, and gymnosperms are studied as well. A phylogeny of vascular plants provides the framework for their evolution and diversification. Related subjects, including plant habitats, biogeography, phylogenetics, herbaria, nomenclature, and pollination biology are also presented in lecture and laboratory.



Note: There are two midterms, a final, and frequent lab quizzes.

Prerequisite: OEB 10 or permission of instructor.

OEB 105 (formerly OEB 205). Neurobiology of Motor Control

Catalog Number: 1519

Bence P. Olveczky

Half course (fall term). Th., 1-3:30.

This course explores the functional organization and anatomy of motor circuits in the brain and how they control movements, including simple reflex movements, rhythmic movements, and more complex sequences of learned movements.

Prerequisite: MCB 80 or equivalent or permission of instructor.

OEB 106. Plant Development and Differentiation

Catalog Number: 4559

Elena M. Kramer

Half course (fall term). Tu., Th., 1-2:30.

A comprehensive lecture course on the developmental biology of plants from fertilization through all phases of vegetative and reproductive growth. Material includes both morphological and genetic studies. Although the main focus of the course is angiosperms, examples are drawn from other lineages of land plants as well. Additional topics include control of cell division and elongation, signal transduction, and hormone response.

Prerequisite: Life Sciences 1b and OEB 52 (formerly OEB 124) or permission of the instructor.

[OEB 107. Evolution of Plant Life in Geologic Time]

Catalog Number: 1318

Andrew H. Knoll

Half course (fall term). M., W., at 10, and a weekly 2-hour lab to be arranged.

Origin, evolution, dispersal, paleoecology, and geologic history of the major groups of the plant kingdom. Laboratory study of representative groups, living and fossil.

Note: Expected to be given in 2011-12.

Prerequisite: OEB 10 or permission of instructor.

***OEB 108. Genetics of Plants - (New Course)**

Catalog Number: 38973

Kirsten Bomblies

Half course (spring term). M., W., F., at 4. EXAM GROUP: 9

An understanding of genetics provides a cornerstone for virtually all areas of biology. This course will cover essential genetic concepts, building on what students learned in LS1B. We will focus on plants, but the concepts learned will apply to all systems. We will discuss topics such as genetic mapping, inheritance, segregation, recombination, gene regulation, the causes and consequences of genome architecture, and the application of genetics to understanding basic biological processes, and in breeding and conservation.

Prerequisite: Life Sciences 1b

[OEB 111. Plants and Environmental Sensing]

Catalog Number: 7832 Enrollment: Limited to 30.



Sarah L. Mathews (Arnold Arboretum)

Half course (fall term). Hours to be arranged.

The exquisite capacity of plants for fine-tuning their growth and development to environmental cues provides evidence of the systems they use for monitoring their environments. This course covers the systems used to sense and respond to light (quality, quantity, direction, periodicity), gravity, temperature, neighboring vegetation, mutualistic partners, pathogens, parasites, herbivores, and abiotic stressors.

Note: Expected to be given in 2011–12.

Prerequisite: OEB 10, OEB 52, or permission of instructor.

OEB 114. Vertebrate Viviparity

Catalog Number: 4953

David A. Haig

Half course (fall term). M., W., F., at 11.

Viviparity has evolved many times in vertebrate phylogeny. The course reviews the diversity of parental care in vertebrates and explores the selective forces that have favored the evolution of live-bearing. The evidence for intergenerational conflicts is considered.

Prerequisite: Life Sciences 1b or permission of instructor.

OEB 115. Evolutionary Developmental Biology in Animals

Catalog Number: 9892

Arkhat Abzhanov

Half course (fall term). M., F., 1–3.

A lecture course in evolutionary developmental biology. Main principles and mechanisms of development as illustrated on both invertebrate and vertebrate animal model systems. In this course we will discuss how animal embryos develop adult body plans on cellular and molecular level. Particular emphasis will be placed on how knowledge of developmental biology helps us understand major evolutionary transitions and the origin of innovation in animal evolution.

Prerequisite: Life Sciences 1a (or LPS A) and 1b, or permission of instructor. OEB 10, MCB 52, and MCB 54 are recommended but not required. Open to students from any concentration.

[OEB 118. Biological Oceanography]

Catalog Number: 7752

James J. McCarthy

Half course (spring term). Tu., Th., 10–11:30.

The ocean as an ecological system, with focus on environmental-organismal interactions that regulate plankton production and transfer to higher trophic levels. Specific topics include bloom events, the limits to fish harvest, and the effects of climate change on ocean systems. Plankton demonstrations and optional coastal research vessel day trip.

Note: Expected to be given in 2011–12. For biology and other natural science concentrators.

Prerequisite: OEB 10, Physical Sciences 1 or permission of instructor.

OEB 119. Deep Sea Biology

Catalog Number: 1397

Peter R. Girguis

Half course (fall term). M., W., 1–2:30. EXAM GROUP: 6, 7



The oceans contain 97% of Earth's water, and host the most disparate ecosystems on the planet. This course provides an introduction to deep ocean habitats, macrofauna and microorganisms. Emphasis is placed on the physiological adaptations of organisms to their environment, as well as the role of microbes in mediating oceanic biogeochemical cycles.

***OEB 121a. Research in Comparative Biomechanics: Seminar**

Catalog Number: 4049

Andrew A. Biewener, Stacey A. Combes, George V. Lauder, and Daniel E. Lieberman

Half course (spring term). Hours to be arranged.

Introduces students to experimental techniques used to investigate the structure and physiology of animals. Each instructor offers research projects that are undertaken in their laboratory (limit 5 students per instructor). Students meet to introduce their project, discuss their work and progress, and to present their final results. An extensive commitment of time in the laboratory is required. Grades are based on the work completed, the oral presentation, and a short research paper.

Note: Laboratory safety session required.

Prerequisite: Life Sciences 2 or OEB 102 or equivalent preferred.

***OEB 121b. Research in Comparative Biomechanics**

Catalog Number: 4670

Andrew A. Biewener, Stacey A. Combes, George V. Lauder, and Daniel E. Lieberman

Half course (fall term). Hours to be arranged.

Students may extend the initial project undertaken in OEB 121a into a thesis research project.

Note: Laboratory safety session required.

Prerequisite: OEB 121a and permission of instructor.

[OEB 123. Biology of Symbiosis]

Catalog Number: 0508

Colleen M. Cavanaugh

Half course (spring term). Hours to be arranged.

An examination of the major aspects of microbial endosymbiosis with emphasis on mutualisms, 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. The course covers symbiotic interactions among bacteria and archaea with protists, fungi, plants, and animals, including the human microbiome.

Note: Expected to be given in 2011–12.

Prerequisite: Life Sciences 1b, OEB 10, and MCB 52 or equivalent, or permission of instructor.

OEB 125. Molecular Ecology and Evolution

Catalog Number: 2691

Scott V. Edwards

Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

A survey of theory and applications of DNA technologies to the study of evolutionary, ecological and behavioral processes in natural populations. Topics to be covered will span a variety of hierarchical levels, timescales, and taxonomic groups, and will include the evolution of genes, genomes and proteins; the neutral theory of molecular evolution and molecular clocks; population genomics and phylogenetic principles of speciation and phylogeography;



metagenomics of microbial communities; relatedness and behavioral ecology; molecular ecology of infectious disease; and conservation genetics.

Note: Weekly computer laboratories will introduce the use of the internet and computational software in DNA sequence alignment and phylogenetic and population genetic analysis.

Prerequisite: Life Sciences 1b, OEB 10, OEB 53 or MCB 52.

[OEB 130. Biology of Fishes]

Catalog Number: 4624

George V. Lauder

Half course (spring term). M., W., 1–2:30.

Fishes inhabit diverse aquatic environments including deep seas, intertidal zones, coral reefs, polar waters, the vast Amazonian basin, and great East African lakes. A single fish species may occupy diverse environments through extraordinary long distance horizontal and vertical migrations. To explore this unparalleled diversity, the course emphasizes bridging traditional academic boundaries with integrative analyses of the biology underlying rapid evolutionary radiations and stasis.

Note: Expected to be given in 2011–12.

OEB 139. Evolution of the Vertebrates

Catalog Number: 8562

Farish A. Jenkins, Jr.

Half course (fall term). M., W., 12–1:30. EXAM GROUP: 5, 6

A survey of the origination and evolution of the major groups of vertebrates, with emphasis on the anatomical and physiological transformations that occurred during the transitions to diverse lineages of fish, amphibians, reptiles, birds, and mammals. The structures and functions exhibited in extant taxa are explored with perspectives from the fossil record.

Note: This course, when taken for a letter grade, meets the Core area requirement for Science B.

[OEB 141. Biogeography]

Catalog Number: 85974

Gonzalo Giribet

Half course (spring term). M., W., 2–3:30.

Biogeography aims to explain distributions of organisms through historical and ecological factors. This course will focus on the history of biogeographic research, developments in the area of historical biogeography, and on ecological processes that affect distributions of whole clades. Topics include plate tectonics and earth history, vicariance and dispersal, areas of endemism, phylogenetic niche conservatism, latitudinal gradients in species richness, and the theory of island biogeography. Software for biogeographical analysis will be discussed and evaluated.

Note: Expected to be given in 2011–12.

Prerequisite: Two following courses: Life Sciences 1b, OEB 10, OEB 51, OEB 52, OEB 53, OEB 54, OEB 55, OEB 181, or permission of the instructor.

[OEB 145. Genes and Behaviors]

Catalog Number: 48436

Yun Zhang

Half course (fall term). Th., 10–11:30, M., 3–4:30.



Behaviors are inheritable and regulated by genes. This lecture course is focused on the genetic underpinnings of behaviors in both invertebrates and vertebrate animals. The goal is to provide mechanistic understandings of how gene products control and influence behavioral outputs. The course covers important findings as well as major research methods in the field. The behaviors that will be lectured on include: olfaction, mechanosensation, adaptation, feeding, circadian rhythm, aggression, courtship, social recognition, addition, etc.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Science B.

Prerequisite: Life Science 1a.

[OEB 153. Statistics for Biology]

Catalog Number: 49559

John R. Wakeley

Half course (fall term). M., W., F., at 10.

Introduction to probability and statistical distributions, and the principle and practice of statistical inference, with a focus on genetical and other biological applications; in other words, how to defend your claims and not be fooled by quantitative arguments.

Note: Expected to be given in 2011–12. This course is offered every other year.

Prerequisite: Mathematics through Calculus.

OEB 155r. Biology of Insects

Catalog Number: 2346 Enrollment: Limited to 15.

Naomi E. Pierce and Michael R. Canfield

Half course (fall term). W., F., 1:30–3. EXAM GROUP: 6, 7

An introduction to the major groups of insects. The life history, morphology, physiology, and ecology of the main taxa are examined through a combination of lecture, lab, and field exercises. Topics include the phylogeny of terrestrial arthropods with a review of the extant orders, an analysis of abiotic and biotic factors regulating populations, including water balance, temperature, migration, parasitism, mutualism, sociality, insect/plant interactions, medical entomology, and the use of insects in biological control.

Prerequisite: With permission of instructor.

OEB 157. Global Change Biology

Catalog Number: 7055

Paul R. Moorcroft and James J. McCarthy

Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

Examines natural and anthropogenic changes in the earth system and their impact on the structure and functioning of terrestrial and oceanic ecosystems. Topics include earth system history, fossil fuel emissions, changing water chemistry, ozone, species extinctions and invasions, and human exploitation of natural resources.

Prerequisite: OEB 10 or OEB 53 and Mathematics 1a required. OEB 55 (formerly BS 55) recommended.

[OEB 167. Herpetology]

Catalog Number: 4070

James Hanken and Jonathan Losos



Half course (spring term). Tu., Th., 1-2:30; Lab: W., 2-5.

An introduction to the biology of amphibians and reptiles. Lectures and laboratories examine the morphology, systematics, natural history, behavior, ecology, evolutionary relationships, and biogeography of all major taxa.

Note: Expected to be given in 2011–12. The course is planning an optional week-long field trip during spring break.

OEB 168r. Sociobotany

Catalog Number: 5092

David A. Haig

Half course (spring term). F., 2–4. EXAM GROUP: 7, 8

A study of the diversity and evolution of plant life cycles, with an emphasis on interactions between the generations. The course will focus on bryophytes.

Prerequisite: Permission of instructor.

[OEB 173. Comparative Biomechanics]

Catalog Number: 9667

Andrew A. Biewener and Jacques Dumais

Half course (spring term). Tu., Th., 11:30–1.

An exploration of how animals and plants contend with their physical environment, considering their biomaterial properties, structural form, and mechanical interaction with the environment.

Through lectures, seminar discussions, and student presentations based on readings, students are introduced to topics related to biomechanical performance.

Note: Expected to be given in 2011–12.

Prerequisite: Mathematics 1b, Physical Science 2 or Physics 11a; Mathematics 21a recommended, or permission of instructor.

[OEB 174r. Topics in Behavioral Ecology]

Catalog Number: 5199 Enrollment: Limited to 15.

Naomi E. Pierce

Half course (spring term). Hours to be arranged.

Current issues in neuroethology, behavior, and behavioral ecology are examined, with topics that change each year. Topics in previous years have included: evolution of sex, evolution of cooperation, evolution of communication, and learning and Memory. The topic this year will focus on comparative methods in studying the evolution of behavior. The course involves invited speakers and discussion of the primary literature.

Note: Expected to be given in 2011–12.

Prerequisite: OEB 57 or MCB 80 or Science B-29 or permission of instructor.

OEB 181. Systematics

Catalog Number: 5459

Gonzalo Giribet

Half course (fall term). Tu., Th., 10-11:30; laboratory on Wednesdays with hours to be arranged.

Theory and practice of systematics, emphasizing issues associated with homology statements and alignments, methods of tree reconstruction, and hypothesis evaluation. The course combines



theoretical considerations, paying special attention to algorithmic aspects of phylogenetics, with the use of different computer programs for conducting evolutionary and phylogenetic analyses. *Prerequisite:* OEB 53, LS1b or permission of instructor required. Familiarity with computers, especially PC platforms.

OEB 189. Cell Growth and Form

Catalog Number: 2195

Jacques Dumais

Half course (fall term). Tu., Th., 11:30–1.

A course on the physical principles behind the growth and form of cells. We will explore the role of surface tension, self-assembly, biomineralization, cytoskeletal forces, and turgor in shaping a wide range of cells including bacteria, diatoms, yeasts, ciliates, pollen, neurons, and red blood cells. The emphasis is on bridging the gap between the molecular components of the cell and overall cell morphogenesis. Special laboratories will introduce the students to the organisms studied in class.

Prerequisite: Life Science 1a and Math 21a, or their equivalents, are recommended, but not required.

[OEB 190. Biology and Diversity of Birds]

Catalog Number: 3870 Enrollment: Limited to 12.

Scott V. Edwards

Half course (spring term). Tu., Th., 11:30-1 and two hours weekly of specimen laboratory.

An introduction to the biology of birds. Covers the fossil record and theories for avian origins, physiology and anatomy, higher-level systematics and field characters of the ~27 orders, speciation processes, nesting and courtship behavior, vocalizations, mating systems and sexual selection, cooperative breeding, demography and conservation. Optional field trip during spring break. Laboratories will consist of gross anatomy, bird watching excursions in the Cambridge area, field techniques and specimen preparation, and systematic study of avian groups using the collections of the Museum of Comparative Zoology.

Note: Expected to be given in 2011–12.

Prerequisite: OEB 10 or OEB 53 or permission of the instructor.

[OEB 191. Physiological and Biochemical Adaptation]

Catalog Number: 2314

Peter R. Girguis and Stacey A. Combes

Half course (spring term). Hours to be arranged.

This course examines how metabolic systems in organisms, from microbes to mammals, have evolved to maintain function throughout the wide range of habitats found on Earth. Emphasis is placed on organismal physiology and biochemical evolution in response to the environment, including the oxygenation of earth's atmosphere and the so-called "extreme" environments. Topics will include pH regulation, thermo-tolerance, desiccation, locomotion, as well as numerous novel physiological adaptations.

Note: Expected to be given in 2011–12. One lab per week.

Prerequisite: OEB 10 or MCB 56 or permission of the instructor.



OEB 192. Microbial Evolution

Catalog Number: 5019

Christopher Marx

Half course (fall term). M., W., 2:30–4. EXAM GROUP: 7, 8

An examination of the evolution of microbes through an integration of lectures and discussion of primary literature. We will focus on a series of broad questions for which we will draw upon knowledge from both lab-based study of experimental microcosms and comparative studies of natural populations. Notably, students will conduct their own experimental evolution projects using 'digital organisms'.

Prerequisite: Life Sciences 1a and Life Sciences 1b or equivalent required.

[OEB 194. Laboratory Techniques in Ecological Physiology]

Catalog Number: 19882

Peter R. Girguis and Stacey A. Combes

Half course (spring term). Hours to be arranged.

An introduction to laboratory techniques in experimental physiology, this course will utilize a variety of equipment and several model organisms to empirically investigate foundational concepts in physiological and biochemical adaptation. Labs will complement and extend topics discussed in the companion class, OEB191. After demonstrating proficiency with core techniques, students will design independent research projects to explore novel questions in ecological physiology.

Note: Expected to be given in 2011–12.

Prerequisite: Concurrent or previous enrollment in OEB 191, or instructor approval.

Primarily for Graduates

OEB 202. Individuality and Form in Biology - (New Course)

Catalog Number: 18046

David A. Haig 1629 and Peter Godfrey-Smith 3338

Half course (spring term). W., 2–4.

Seminar on conceptual problems in organismal and evolutionary biology. Main topics will be the concept of an individual and the concept of homology. Readings will include historical, biological, and philosophical material.

[OEB 212r. Advanced Topics in Plant Physiology]

Catalog Number: 2176

N. Michele Holbrook

Half course (spring 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 2011–12.

Prerequisite: OEB 120 , OEB 52 or permission of instructor.

[*OEB 214. Biology of Acoustic Communities]

Catalog Number: 2422 Enrollment: Limited to 12.

Brian D. Farrell



Half course (spring term). Hours to be arranged.

Four principal animal groups (insects, frogs, birds and mammals) sing and call in habitats around the world. We discuss the ecology, evolution and characteristics of such acoustic communities and the hypothesis that their members compete for "bandwidth". We discuss readings on acoustic ecology and evolution, and listen to (and watch, via spectrum analysis) soundscapes from selected tropical and temperate habitats. The capstone will be a fieldtrip to record natural soundscapes.

Note: Expected to be given in 2011–12.

Prerequisite: OEB 10 or permission of the instructor.

[OEB 215. Topics in Ecophysiology]

Catalog Number: 99294

Stacey A. Combes

Half course (fall term). Tu., 3–5.

A discussion based course exploring the physiological processes involved in an organism's interactions with its environment. Readings will focus on adaptation to environmental variability, with an emphasis on responses to climate change and habitat alteration.

Note: Expected to be given in 2011–12.

Prerequisite: OEB 191 or permission of instructor

[OEB 221. Microbial Diversity]

Catalog Number: 1234

Colleen M. Cavanaugh

Half course (spring term). Hours to be arranged.

Examines the remarkable diversity of prokaryotes. Physiological, genetic, ecological, and evolutionary characteristics of Bacteria and Archaea divisions are discussed, as well as the relation of phenotype to phylogeny.

Note: Expected to be given in 2011–12.

Prerequisite: Life Sciences 1b (formerly BS 50) and OEB 10 or BS 51, and MCB 52 or equivalent, or permission of instructor.

[OEB 223. Topics in Neurogenetics]

Catalog Number: 1434

Yun Zhang

Half course (spring term). W., 4–6.

Review of current literature related to genetic effects on neural functions including: (1) genetic contributions to mental illness; (2) current understanding of underlying mechanisms of neurodegenerative diseases; (3) genes and behaviors; (4) modulations of neuronal functions by environment and experiences.

Note: Expected to be given in 2011–12. The course is primarily planned for new graduate students, but it is also open to interested senior undergraduates who have taken OEB 57 (formerly BS 57) or MCB 80 and obtained permission from the instructor.

[OEB 227. Molecular Approaches to Environmental Microbiology]

Catalog Number: 4444

Colleen M. Cavanaugh



Half course (spring term). Hours to be arranged.

Critical review and discussion of current advances in our understanding of biodiversity, community structure, and metabolic activities in Bacteria and Archaea resulting from the application of cellular and molecular approaches in diverse environments

Note: Expected to be given in 2011–12.

Prerequisite: Earth and Planetary Sciences 30 or permission of instructor.

[*OEB 230. Speciation]

Catalog Number: 0122

Hopi E. Hoekstra

Half course (fall term). Hours to be arranged.

This discussion based course covers the latest advances in speciation with a focus on controversial issues and new approaches. The course combines readings from Speciation chapters and the recent primary literature with guest lecturers and discussion from experts in the field.

Note: Expected to be given in 2011–12.

Prerequisite: Permission of instructor.

***OEB 231. Adaptation**

Catalog Number: 95671

Hopi E. Hoekstra

Half course (spring term). Hours to be arranged.

This discussion-based course covers the latest advances in the study of adaptation with a focus on controversial issues and integrative approaches. The course combines readings from recent primary literature with discussion with experts via video conferencing.

***OEB 233. Evolution of the Niche - (New Course)**

Catalog Number: 18329

Jonathan Losos

Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17

Evolutionary diversification relates directly to how ecological niches change through time. This seminar will discuss what niches are and how they evolve, and will include hands-on application of current techniques.

Prerequisite: OEB 53 or equivalent

***OEB 234. Topics in Marine Biology**

Catalog Number: 4637

Robert M. Woollacott

Half course (spring term). W., 2:30–5. EXAM GROUP: 7, 8, 9

Human impacts on marine life and ecosystems of the sea.

Note: Weekly class meeting including lectures, class presentations, several laboratories, and one field trip through the course of term.

OEB 242. Population Genetics

Catalog Number: 0903

Daniel L. Hartl, Michael Manish Desai, and Pardis Sabeti



Half course (spring term). W., 2–5.

Mathematical theory, experimental data, and history of ideas in the field, including analytical methods to study genetic variation with applications to evolution, demographic history, agriculture, health and disease. Includes lectures, problem sets, and student presentations.

Prerequisite: LS1b or permission of the instructor.

***OEB 251. Introduction to Vertebrate Surgery**

Catalog Number: 2075 Enrollment: Limited to 16.

Arthur L. Lage (Medical School)

Half course (fall term). W., 1–2:30. EXAM GROUP: 6, 7

Teaches the basic principles of aseptic surgery with emphasis on practicality. Students learn basic "open" surgery as well as newer high-tech videoscopic minimally invasive technique, obtaining hands-on experience in scrubbing, gowning, and sterile technique while serving as anesthetist and surgeon.

Note: Intended for the student interested in the application of surgical technique in higher studies in biology and related disciplines.

Prerequisite: Comparative anatomy, Life Sciences 2 (or OEB 102), or equivalent course.

OEB 252. Coalescent Theory

Catalog Number: 0118

John R. Wakeley

Half course (fall term). M., W., F., at 9.

The mathematics and computation of ancestral inference in population genetics. Theory relates observable genetic data to factors of evolution such as mutation, genetic drift, migration, natural selection, and population structure.

Prerequisite: OEB 152 or permission of instructor: calculus and statistics or probability.

OEB 253r. Evolutionary Genetics Seminar

Catalog Number: 8104

John R. Wakeley

Half course (spring term). W., at 11. EXAM GROUP: 4

Readings and discussion of primary literature in population and evolutionary genetics.

Prerequisite: OEB 152 or permission of instructor.

OEB 255. Nature and Regulation of Marine Ecosystems

Catalog Number: 7753

James J. McCarthy and guest lecturers

Half course (fall term). F., 1–3. EXAM GROUP: 6, 7

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.

Prerequisite: OEB 118 or OEB 157.

OEB 261r (formerly Biology 261r). Developmental Mechanisms of Evolutionary Change

Catalog Number: 8451

Arkhat Abzhanov



Half course (spring term). F., 2–3:30. EXAM GROUP: 7, 8

A graduate seminar course in evolutionary developmental biology. In this course, we will discuss the latest advances in understanding the cellular and molecular developmental mechanisms that underlie important evolutionary phenomena. We will emphasize major evolutionary transitions and the origin of morphological innovations in animal evolution.

Prerequisite: LS 1A and LS 1B or by permission of the instructor.

[OEB 268r. Topics in Plant Developmental Genetics]

Catalog Number: 5020

Elena M. Kramer and Andrew H. Knoll

Half course (fall term). M., 1–3.

This lecture/seminar reviews the literature related to the intersection between paleobotany and developmental genetics. Additionally, participants are familiarized with the advantages and pitfalls of molecular techniques, and the process of project design.

Note: Expected to be given in 2011–12.

Prerequisite: OEB 106 and Life Sciences 1b or BS 50, or MCB 52 or permission of instructor.

[OEB 275r. Phylogenetics in the Era of Genomics]

Catalog Number: 5004

Scott V. Edwards

Half course (fall term). Tu., 1:00-3 p.m. and occasional computer labs.

A survey of the changing landscape of molecular systematics brought on by the power of modern genomics. Emphasis will be on the challenges of combining DNA sequence data from many genes and the rise of species trees as a paradigm in systematics. Lectures and journal paper readings will be supplemented by occasional laboratories illustrating new multilocus phylogenetics methods.

Note: Expected to be given in 2011–12.

Prerequisite: OEB 53, OEB 181 or equivalent.

[*OEB 276. Models of Development]

Catalog Number: 1448

Jacques Dumais

Half course (spring term). M., W., 1–2:30.

A lecture and discussion course on the modeling of animal and plant development. Topics will include analysis of gene networks, positional signaling, reaction-diffusion systems, mechano-chemistry and tissue mechanics and remodeling. Emphasis will be on models of development that are mechanistic and well supported experimentally.

Note: Expected to be given in 2011–12.

Prerequisite: Math 1a and b; Math 21a and b recommended, or permission of instructor.

***OEB 277. In Sickness and in Health: Topics in Symbiosis - (New Course)**

Catalog Number: 37264

Colleen M. Cavanaugh

Half course (spring term). W., 1–3.

Critical review and discussion of current issues in symbiosis. Emphasis is on microbe-eukaryote symbioses ranging from mutualistic to pathogenic associations. In 2011 the course will focus on



the human microbiome and topics selected by faculty and students.

Prerequisite: Life Sciences 1a, 1b or equivalent, microbial science, or permission of instructor.

OEB 282. Genomics and Evolution of Infectious Disease (Graduate Seminar in General Education)

Catalog Number: 43026

Pardis Sabeti

Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17

Infectious diseases rapidly evolve to evade our immune systems, drugs, and vaccines, to remain agents of great morbidity and mortality. We will investigate the genome evolution of these pathogens and our intervention strategies for them past and present, with case examples from avian flu, malaria, TB, lassa fever and more. The seminar will design and develop a General Education course on these themes for undergraduates.

***OEB 290 (formerly *Life Sciences 190r). Microbial Sciences: Chemistry, Ecology and Evolution**

Catalog Number: 7185 Enrollment: Limited to 30.

Michael S. Gilmore (Medical School)

Half course (fall term). F., at 8:30; F., 9:45–11:45. EXAM GROUP: 2

This is an interdisciplinary graduate-level and advanced undergraduate-level course in which students explore topics in molecular microbiology, microbial diversity, and microbially-mediated geochemistry in depth. This course will be taught by faculty from the Microbial Sciences Initiative.

Prerequisite: For advanced undergraduates, Life Sciences 1a and 1b are required, or permission of instructor. MCB 52 is recommended.

***OEB 299r. Forest Practice and Research**

Catalog Number: 6128

David R. Foster

Half course (fall term; repeated spring term). Hours to be arranged.

Field and laboratory research into the history, biology, ecology, culture, and economic problems of local, regional, and world forests. Individual research projects.

Note: Seminars, conferences, field, and laboratory work at the Harvard Forest, Petersham, Massachusetts.

Cross-listed Courses

***Environmental Science and Public Policy 90e. Marine Conservation Biology: The Large Whales**

Human Evolutionary Biology 1420. Human Evolutionary Anatomy

***Human Evolutionary Biology 1463. Molecular Evolution of the Primates**

Life Sciences 1b. An Integrated Introduction to the Life Sciences: Genetics, Genomics, and Evolution

Life Sciences 2. Evolutionary Human Physiology and Anatomy

[Mathematics 153. Mathematical Biology-Evolutionary Dynamics]



Mathematics 243 (formerly Mathematics 234). Evolutionary Dynamics
MCB 291. Genetics, Genomics and Evolutionary Biology

Graduate Courses of Reading and Research

***OEB 303. Theoretical Population Genetics**

Catalog Number: 4248

John R. Wakeley 5680

***OEB 304. Mycology**

Catalog Number: 4702

Donald H. Pfister 4344

***OEB 305. The Fundamental Interconnectedness of All Things**

Catalog Number: 3647

David A. Haig 1629

***OEB 307. Biomechanics, Physiology and Musculoskeletal Biology**

Catalog Number: 2831

Andrew A. Biewener 1446 (on leave 2010-11)

***OEB 308. Evolution of Floral Developmental Mechanisms**

Catalog Number: 5535

Elena M. Kramer 3791

***OEB 310. Metazoan Systematics**

Catalog Number: 3975

Gonzalo Giribet 3854

***OEB 311. Ecosystem Ecology**

Catalog Number: 6416

Paul R. Moorcroft 4174

***OEB 320. Biomechanics and Evolution of Vertebrates**

Catalog Number: 8915

George V. Lauder 2375

***OEB 323. Advanced Vertebrate Anatomy**

Catalog Number: 8188

Farish A. Jenkins, Jr. 3558 (on leave spring term)

***OEB 324. Molecular Evolution**

Catalog Number: 2356

Daniel L. Hartl 3278



***OEB 325. Marine Biology**

Catalog Number: 4643
Robert M. Woollacott 4135

***OEB 334. Behavioral Ecology**

Catalog Number: 8279
Naomi E. Pierce 2889

***OEB 335. Ichthyology and Functional Anatomy of Fishes**

Catalog Number: 4640
Instructor to be determined

***OEB 339. Whole-Plant Physiology**

Catalog Number: 5214
N. Michele Holbrook 1220 (on leave spring term)

***OEB 341. Coevolution**

Catalog Number: 2998
Brian D. Farrell 1985

***OEB 343. Microbial Ecology and Symbiosis**

Catalog Number: 1288
Colleen M. Cavanaugh 2538

***OEB 345. Biological Oceanography**

Catalog Number: 4676
James J. McCarthy 4343

***OEB 355. Evolutionary Developmental Biology**

Catalog Number: 9192
James Hanken 2719 (on leave fall term)

***OEB 357. Population Biology and Mathematical Biology**

Catalog Number: 5392
William H. Bossert 1049

***OEB 359. Paleobotany**

Catalog Number: 0248
Andrew H. Knoll 7425

***OEB 360. Plant Biophysics**

Catalog Number: 8421
Jacques Dumais 4719



***OEB 361. Somatic Evolution of Cancer**

Catalog Number: 5791

Martin A. Nowak 4568 (on leave fall term)

***OEB 362. Research in Molecular Evolution**

Catalog Number: 2367

Scott V. Edwards 5049

***OEB 363. Plant Diversity and Evolution**

Catalog Number: 0001

Charles C. Davis 5263

***OEB 364. Ecological Physiology of Microbes**

Catalog Number: 0002

Peter R. Girguis 5264

***OEB 365. Evolution of Microbes**

Catalog Number: 0003

Christopher J. Marx 5265

***OEB 366. Ecological Genetics and Mycology**

Catalog Number: 0004

Anne Pringle 5266

***OEB 367. Evolutionary and Ecological Diversity**

Catalog Number: 0420

Jonathan Losos 5449

***OEB 368. Oral Developmental Biology**

Catalog Number: 7087

Arkhat Abzhinov 5597

***OEB 369. Molecular Genetics of Neuroscience**

Catalog Number: 5175

Yun Zhang 5780

***OEB 370. Mammalian Evolutionary Genetics**

Catalog Number: 3072

Hopi E. Hoekstra 5814

***OEB 371. Comparative and Evolutionary Invertebrate Developmental Biology**

Catalog Number: 7188

Cassandra G. Extavour 6035



***OEB 372. Neural Basis of Learned Motor Behaviors**

Catalog Number: 8438

Bence P. Olveczky 6003

***OEB 373. Plant Population Biology**

Catalog Number: 34452

Kirsten Bomblies 6337

***OEB 375. Evolutionary Dynamics and Population Genetics - (New Course)**

Catalog Number: 60662

Michael Manish Desai 6547

***OEB 376. Insect Biomechanics and Behavioral Ecology - (New Course)**

Catalog Number: 75769

Stacey A. Combes 6030

***OEB 378. Terrestrial Ecology - (New Course)**

Catalog Number: 24247

Andrew Richardson 6562

***OEB 385. Natural Selection in Humans and Pathogens - (New Course)**

Catalog Number: 39354

Pardis Sabeti 6022

***OEB 386. Organismic and Evolutionary Plant Biology - (New Course)**

Catalog Number: 55867

William Friedman 6896

***OEB 399. Topics in Organismic and Evolutionary Biology**

Catalog Number: 0764

Colleen M. Cavanaugh 2538

Half course (fall term; repeated spring term). W., 5-7 pm.

Presents the research interests and experiences of scientists in organismic and evolutionary biology. Specific topics treated vary from year to year.

Note: Required of all first-year graduate students in Organismic and Evolutionary Biology.

Philosophy



Faculty of the Department of Philosophy

Sean D. Kelly, Professor of Philosophy (*Chair*)
Alan Berger, Visiting Associate Professor of Philosophy
Selim Berker, Assistant Professor of Philosophy
Matthew Boyle, Associate Professor of Philosophy (*on leave 2010-11*)
Cheryl K. Chen, Lecturer on Philosophy
Peter Godfrey-Smith, Professor of Philosophy
Warren Goldfarb, Walter Beverly Pearson Professor of Modern Mathematics and Mathematical Logic (*on leave 2010-11*)
Edward J. Hall, Professor of Philosophy (*Head Tutor*)
Russell Edward Jones, Assistant Professor of Philosophy
Frances Kamm, Professor of Philosophy (*on leave 2010-11*)
Peter Koellner, Professor of Philosophy
Christine M. Korsgaard, Arthur Kingsley Porter Professor of Philosophy (*Director of Graduate Studies*)
Douglas Lavin, John L. Loeb Associate Professor of the Humanities (*on leave 2010-11*)
Farid Masrour, College Fellow in the Department of Philosophy
Jeffrey K. McDonough, Assistant Professor of Philosophy (*on leave 2010-11*)
Richard Moran, Brian D. Young Professor of Philosophy (*on leave 2010-11*)
Bernhard Nickel, Assistant Professor of Philosophy
Mark Richard, Professor of Philosophy
Thomas M. Scanlon, Jr., Alford Professor of Natural Religion, Moral Philosophy, and Civil Polity
Amartya Sen, Lamont University Professor (*on leave spring term*)
Tommie Shelby, Professor of African and African American Studies and of Philosophy
Susanna Siegel, Edgar Pierce Professor of Philosophy
Alison Simmons, Samuel H. Wolcott Professor of Philosophy
Gisela Striker, Walter C. Klein Professor of Philosophy and of the Classics (*on leave spring term*)

Other Faculty Offering Instruction in Philosophy

Charles D. Parsons, Edgar Pierce Professor of Philosophy, Emeritus

Primarily for Undergraduates

Philosophy 3. Introduction to the Problems of Philosophy

Catalog Number: 1996

Bernhard Nickel

Half course (fall term). M., W., (F.), at 11; F., at 11; Th., at 1; W., at 4; F., at 11. EXAM GROUP: 4

This course offers an introduction to philosophy. We will focus on the three main areas of concern: epistemology (the theory of knowledge), metaphysics (the theory of the nature of reality), and ethics (the theory of what we ought to do). You'll be exposed to philosophical



modes of argument and inquiry. The course aims as much at developing the skills involved in pursuing these and other philosophical concerns as to acquaint you with particular positions.

Philosophy 7. Introduction to Ancient Philosophy

Catalog Number: 1583

Russell Edward Jones

Half course (fall term). Tu., Th., at 12. EXAM GROUP: 14

A survey of ancient philosophy, with an emphasis on Socrates, Plato, and Aristotle, and some attention to pre-Socratic and Hellenistic philosophers. Attention will be given to the major ethical, epistemological, and metaphysical theories of the classical period, as well as the development of philosophical methodology. The aim of the course is twofold: to acquaint you with some of the interesting and influential theories of the period and to evaluate their philosophical plausibility.

Philosophy 8. Introduction to Early Modern Philosophy

Catalog Number: 8947

Alison Simmons

Half course (spring term). M., W., (F.), at 12; Tu., at 3; Tu., at 1. EXAM GROUP: 5

A survey of 17th- and 18th-century philosophy with a focus on the major metaphysical and epistemological writings of Descartes, Locke, Hume, and Kant. Topics include the natures of mind and body, the physical world, freedom, and human knowledge. Special attention to the rise of mechanistic science (i.e. the “Scientific Revolution”).

***Philosophy 91r. Supervised Reading and Research**

Catalog Number: 9710

Edward J. Hall

Half course (fall term; repeated spring term). Hours to be arranged.

Graded independent study under faculty supervision. Interested students need approval of head tutor for their topic and must propose a detailed syllabus before the beginning of term.

***Philosophy 97. Tutorial - I**

Catalog Number: 2435

Cheryl K. Chen (fall term) and Edward J. Hall (spring term)

Half course (fall term; repeated spring term). Hours to be arranged.

Note: Required of all sophomore concentrators, and for the secondary field in philosophy.

***Philosophy 98hf. Tutorial — Junior Year**

Catalog Number: 5533

Edward J. Hall

Half course (throughout the year). Hours to be arranged.

Note: Required of all junior concentrators.

***Philosophy 99. Tutorial — Senior Year**

Catalog Number: 4396

Edward J. Hall and members of the Department

Half course (fall term; repeated spring term). Hours to be arranged.



Cross-listed Courses

[Culture and Belief 14. Human Being and the Sacred in the History of the West]
[Culture and Belief 31 (formerly Philosophy 19). Saints, Heretics, and Atheists: An Historical Introduction to the Philosophy of Religion]
[Empirical and Mathematical Reasoning 11. Making Sense: Language, Logic, and Communication](#)
[Empirical and Mathematical Reasoning 17 \(formerly Quantitative Reasoning 22\). Deductive Logic](#)
[Ethical Reasoning 11. Human Rights: A Philosophical Introduction](#)
[Ethical Reasoning 13 (formerly Moral Reasoning 56). Self, Freedom, and Existence]
[Ethical Reasoning 14 \(formerly Moral Reasoning 33\). Issues in Ethics](#)
[Ethical Reasoning 21 \(formerly Moral Reasoning 66\). Moral Reasoning about Social Protest](#)
[*Freshman Seminar 43e. Mind-Body Problems - \(New Course\)](#)

For Undergraduates and Graduates

Philosophy 101. Plato

Catalog Number: 5374

Russell Edward Jones

Half course (spring term). Tu., Th., at 1; F., at 2. EXAM GROUP: 15

A broad survey of Plato's philosophical views. Our primary task is to understand the theories expressed in Plato's dialogues. A secondary task is to examine issues of interpretive methodology that arise given that Plato wrote dialogues which predominantly feature a historical figure (Socrates) and which may or may not express a consistent set of views. Readings will be from, among others, *Apology*, *Charmides*, *Gorgias*, *Laches*, *Meno*, *Parmenides*, *Protagoras*, *Republic*, and *Theaetetus*.

Philosophy 109. Aristotle's Ethics and Politics

Catalog Number: 1830

Gisela Striker

Half course (fall term). Tu., Th., at 11. EXAM GROUP: 13

An introduction to Aristotle's philosophy -- and Greek ethics -- through a study of two interconnected works: Aristotle's *Nicomachean Ethics* and *Politics*.

Prerequisite: At least one course in philosophy, either ethics or ancient philosophy.

[Philosophy 120. The Rationalists]

Catalog Number: 2512

Jeffrey K. McDonough

Half course (fall term). Hours to be arranged.

A study of some central topics in the works of Descartes, Spinoza and Leibniz, with primary emphasis on their contributions to metaphysics and epistemology.

Note: Expected to be given in 2011–12.



Philosophy 122. British Empiricism

Catalog Number: 9025

Alison Simmons

Half course (fall term). Tu., Th., at 12. EXAM GROUP: 14

A study of the central works of Locke, Berkeley, and Hume with primary emphasis on their contributions to metaphysics and epistemology.

Philosophy 129. Kant's Critique of Pure Reason

Catalog Number: 0614

Farid Masrour

Half course (spring term). Tu., Th., at 12; (M.), at 4:30.

Kant's *Critique of Pure Reason* is one of the most important works in the history of philosophy. Our goal is to understand its central doctrines and their significance. Kant's views on human knowledge; the role of mind in the production of experience; space and time; self-knowledge and its role in experience; causation; freedom of the will; the persistence of the soul after death; the status of metaphysics; and the relationship between appearance and reality.

[Philosophy 132. Marx and Marxism]

Catalog Number: 6039

Tommie Shelby

Half course (fall term). Hours to be arranged.

Introduces the political philosophy and social theory of Karl Marx. Through primary texts we study his theory of history, his account of human self-alienation, his theory of ideology, his attempt to establish that capitalism is exploitative, his critique of liberalism, and his conception of freedom. Discussion also of some contemporary philosophical writings in the Marxist tradition.

Note: Expected to be given in 2011–12.

[Philosophy 137. The Later Philosophy of Wittgenstein]

Catalog Number: 3360

Richard Moran

Half course (spring term). Hours to be arranged.

A close reading of Ludwig Wittgenstein's *Philosophical Investigations*, focusing on its treatments of the topics of meaning, reference, rule-following, cognition, perception, "the private mental realm" knowledge, scepticism, and the nature of philosophy. Attention to Wittgenstein's philosophical methodology, with its claim to dissolve philosophical problems rather than propose solutions to them.

Note: Expected to be given in 2011–12.

[Philosophy 141. Frege, Russell, and the Early Wittgenstein]

Catalog Number: 6807

Warren Goldfarb

Half course (fall term). Hours to be arranged.

An examination of the beginnings of analytic philosophy, with primary interest in the reformulation of traditional philosophical problems by these three authors and the analytic and



logical methods they introduced to treat them.

Note: Expected to be given in 2011–12.

***Philosophy 142. Set Theory: The Higher Infinite: Proseminar**

Catalog Number: 16005

Peter Koellner

Half course (fall term). M., 2–4. EXAM GROUP: 7, 8

An introduction to the hierarchy of axioms of infinity in set theory.

***Philosophy 142q. Topics in Set Theory: Proseminar - (New Course)**

Catalog Number: 82634

Peter Koellner

Half course (spring term). W., 3–5. EXAM GROUP: 8, 9

This is a proseminar on advanced topics in set theory. The topics will depend on the interests of the participants. Possible topics include: large cardinal axioms, forcing and large cardinals, singular cardinal combinatorics, determinacy, inner model theory.

[Philosophy 144. Logic and Philosophy]

Catalog Number: 1111

Warren Goldfarb

Half course (spring term). Hours to be arranged.

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 given in 2011–12.

Prerequisite: Some knowledge of deductive logic.

Philosophy 147. Philosophy of Language

Catalog Number: 8887

Mark Richard

Half course (spring term). M., W., (F.), at 11. EXAM GROUP: 4

An introduction to recent philosophical thought about language. Topics to include: relations between meaning and truth; the extent to which meaning is determinate and the extent to which it is shared; conceptions of language use as performative or expressive; the idea that there is a gulf between factual and evaluative language.

Philosophy 148. Philosophy of Mathematics

Catalog Number: 8341

Charles D. Parsons

Half course (spring term). M., W., (F.), at 10. EXAM GROUP: 3

Philosophical issues concerning mathematics, such as: its degree of certainty and necessity, its being apparently a priori, what reference to objects such as numbers and sets amounts to, the relation of mathematics and logic, whether classical logic can be called into question. Reading of such writers as Frege, Brouwer, Hilbert, Carnap, Quine, and contemporaries.

Prerequisite: Quantitative Reasoning 22 or the equivalent or some background in mathematics.



[Philosophy 149y. Philosophy and the Exact Sciences: Aristotle to Newton]

Catalog Number: 11943

Peter Koellner

Half course (spring term). Hours to be arranged.

This is the first in a two-part series of courses dealing with the history of the relationship between philosophy and the exact sciences. We shall begin with a brief tour of philosophy and science from Aristotle to Copernicus. Our focus will then be on the major achievements of the seventeenth century. The principle figures will be Kepler, Galileo, Descartes, Huygens, Leibniz, and Newton.

Note: Expected to be given in 2011–12.

Philosophy 149z. Philosophy of Science

Catalog Number: 4473

Peter Godfrey-Smith

Half course (spring term). Tu., Th., at 1. EXAM GROUP: 15

Survey of 20th century and contemporary views on the nature of scientific knowledge. Topics include: logical empiricism, Popper and "falsifiability", induction and confirmation, explanation, scientific realism, Kuhn, Lakatos, Feyerabend, and the relations between philosophy, history, and sociology of science.

Philosophy 151z. Philosophy of Quantum Mechanics

Catalog Number: 5465

Edward J. Hall

Half course (spring term). Tu., Th., 10- 11:30. EXAM GROUP: 12

A crowning achievement of 20th century science, quantum mechanics is also bizarre enough to lead intelligent people to claim that the universe perpetually splits into many copies of itself, that conscious minds can make physical systems "jump" unpredictably, that classical logic must be revised, that there is no objective reality, and much, much more. We will separate the wheat of genuine mystery from the chaff of philosophical confusion. No prior knowledge of quantum mechanics required.

Note: This course, when taken for a letter grade, meets the Core area requirement for Science A.

***Philosophy 153. Animal Minds: Proseminar - (New Course)**

Catalog Number: 31112

Peter Godfrey-Smith

Half course (fall term). W., 2–4. EXAM GROUP: 7, 8

A survey of philosophical and empirical work on animal cognition and consciousness. Insects, cephalopods, birds, and mammals will be discussed, along with the role played by language in complex thought.

Philosophy 156. Philosophy of Mind

Catalog Number: 3410

Peter Godfrey-Smith

Half course (fall term). Tu., Th., at 1. EXAM GROUP: 15

The mind-body problem and proposed solutions to it, including dualism, behaviorism, identity theories, and functionalism. Theories of consciousness, subjective experience, and the mind's



representation of the world. Consideration of how recent work in psychology relates to the philosophical debates.

***Philosophy 157z. Perception, Prediction and Action: Proseminar - (New Course)**

Catalog Number: 34403

Susanna Siegel and Sean D. Kelly

Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17

An examination of the influence of motor goals, predictions (including stereotypes), and motives in perception, and their implications for theories of rationality. Readings will be drawn from psychology and philosophy and may include Merleau-Ponty, Gigerenzer, Andy Clark, Jose Bermudez, Dana Ballard, Dennis Proffitt, and Jennifer Eberhardt.

Philosophy 159. Epistemology

Catalog Number: 5443

Cheryl K. Chen

Half course (fall term). M., W., (F.), at 1. EXAM GROUP: 6

An introduction to the theory of knowledge. Topics include the problem of induction, external world skepticism and the problem of other minds.

***Philosophy 161. Personal Identity and Self-Consciousness: Proseminar**

Catalog Number: 7414

Cheryl K. Chen

Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17

An examination of some interconnected issues concerning personal identity and self-consciousness. Topics include the identity of persons over time, introspection, self-reference and bodily awareness.

Philosophy 164. Metaphysics

Catalog Number: 1480

Farid Masrour

Half course (fall term). M., W., (F.), at 11. EXAM GROUP: 4

Do numbers exist? Are statements that attribute moral properties to actions, e.g., 'stealing is wrong' strictly speaking false? Are colors mind-independent properties of objects? Realists and anti-realists give different answers. This course focuses on the realism/anti-realism debate. Our aim is two-fold. To learn more about the status of the debate in fields as diverse as philosophy of mathematics and meta-ethics, and to see if there is a pattern that unifies the various realist/anti-realist positions.

[Philosophy 168. Kant's Ethical Theory]

Catalog Number: 8361

Christine M. Korsgaard

Half course (fall term). Hours to be arranged.

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 2011–12. This course, when taken for a letter grade, meets the



General Education requirement for Ethical Reasoning or the Core area requirement for Moral Reasoning.

Philosophy 172. The History of Modern Moral Philosophy

Catalog Number: 5184

Christine M. Korsgaard

Half course (fall term). M., W., (F.), at 12. EXAM GROUP: 5

A study of the development of modern moral philosophy from its origins in the natural law theories of Hobbes and Pufendorf to the emergence of the two most influential theories of the modern period, utilitarianism and Kantianism, in the works of Bentham and Kant. Selections from the works of Hobbes, Clarke, Butler, Hutcheson, Hume, Smith, Price, and others.

Note: This course, when taken for a letter grade, meets the General Education requirement for Ethical Reasoning or the Core area requirement of Moral Reasoning.

[Philosophy 173. Metaethics]

Catalog Number: 3541

Selim Berker

Half course (fall term). Hours to be arranged.

A close examination of three metaethical views that take a deflationary approach toward the moral domain: moral nihilism, moral relativism, and moral expressivism.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the General Education requirement for Ethical Reasoning or the Core area requirement for Moral Reasoning.

[Philosophy 174. Recent Ethical Theory]

Catalog Number: 3266

Christine M. Korsgaard

Half course (spring term). Hours to be arranged.

A study of some major recent philosophical theories of ethics, chosen from among the works of Blackburn, Darwall, Gibbard, Korsgaard, Nagel, Scanlon, Thompson, and others.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the General Education requirement for Ethical Reasoning or the Core area requirement of Moral Reasoning.

Philosophy 178. Equality and Democracy

Catalog Number: 7653

Thomas M. Scanlon, Jr.

Half course (spring term). M., W., (F.), at 1; Tu., at 10; Tu., at 2; Tu., at 7 p.m.; Tu., at 10.

EXAM GROUP: 6

When is economic inequality morally objectionable, and why? What kind of equality is required by just political institutions? A critical examination of some answers to these questions offered by contemporary philosophers, with special attention to the work of John Rawls.

Note: This course, when taken for letter grade, meets the General Education requirement for Ethical Reasoning or the Core area requirement for Moral Reasoning.



Philosophy 179. Race and Social Justice

Catalog Number: 6665

Tommie Shelby

Half course (fall term). Tu., Th., at 11. EXAM GROUP: 13

Critically examines recent philosophical work on questions of racial justice: What is racism? What makes racial discrimination wrong? Are reparations owed for past racial injustices? Is racial profiling ever justified? Under what conditions should we regard racial disparities (e.g., in wealth or employment) as unjust? Should government foster racial integration in schools and neighborhoods? Is affirmative action unfair? Is a just society a "color-blind" society?

Note: This course, when taken for letter grade, meets the General Education requirement for Ethical Reasoning or the Core area requirement for Moral Reasoning.

[Philosophy 187. Aesthetics]

Catalog Number: 2594

Richard Moran

Half course (spring term). Hours to be arranged.

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, the nature of expression and its relation to the will, problems of sincerity, 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.

Note: Expected to be given in 2011–12.

Cross-listed Courses

African and African American Studies 130. W. E. B. Du Bois: Social and Political Writings

Government 1052. History and Freedom in German Idealism

Greek 110r. Plato

History 1323. German Social Thought, Nietzsche to Habermas - (New Course)

[History of Science 117. Science, Philosophy, and Religion in Late Antiquity and the Middle Ages]

Mathematics 141. Introduction to Mathematical Logic

[Philosophy 173. Metaethics]

Primarily for Graduates

***Philosophy 206. Aristotle on Truth and Meaning: Seminar - (New Course)**

Catalog Number: 51756

Russell Edward Jones

Half course (spring term). Tu., 2–4.

Twin goals: identifying his views, and evaluating their viability. We will focus on Categories, De Interpretatione, Metaphysics and De Anima. No previous background on Aristotle, truth, or meaning assumed.

***Philosophy 240. Epistemology of Perception: Seminar - (New Course)**

Catalog Number: 13095



Susanna Siegel and Farid Masrour

Half course (spring term). F., 1–3.

Readings on the role of perception in knowledge and rational belief.

***Philosophy 244. Epistemic Normativity: Seminar - (New Course)**

Catalog Number: 79724

Selim Berker

Half course (spring term). M., 2–4.

Recent work on the nature, structure, and ultimate grounds of epistemic normativity. Topics include: doxastic voluntarism; epistemic responsibility; the value of knowledge; Pascal's wager; belief's constitutive aims; epistemic teleology; analogies between epistemic and moral norms.

***Philosophy 250. Perspective and Objectivity: Seminar - (New Course)**

Catalog Number: 97741

Mark Richard

Half course (fall term). W., 4–6.

How the perspectival nature of thought, its tie to particular sensory modalities, a particular set of concepts, a historical situation affects its objectivity; the nature of "self locating" belief.

***Philosophy 255. Philosophy of Hilary Putnam: Seminar - (New Course)**

Catalog Number: 26571

Alan Berger

Half course (spring term). W., 2–4.

We will primarily focus on Putnam's recent and yet to be published works. Putnam has agreed to make a few appearances to respond to criticism or present new material.

***Philosophy 264z. Explanatory Structure: Seminar - (New Course)**

Catalog Number: 94831

Edward J. Hall

Half course (fall term). Tu., 2–4.

To render the world intelligible, we posit metaphysically intriguing stuff: laws, causes, chances, properties, powers, dispositions, spatiotemporal structure, and so on. We will gamely attempt to produce a comprehensive account of that stuff.

***Philosophy 269. Hume's Ethical Theory: Seminar - (New Course)**

Catalog Number: 43309

Christine M. Korsgaard

Half course (spring term). W., 4–6.

A study of Hume's moral and political philosophy, with attention to its basis in Hume's theory of the mind and of the passions, and to the context of 17th- and 18th-century British moral philosophy.

***Philosophy 292. The Sacred and the Secular: Seminar (Graduate Seminar in General Education) - (New Course)**

Catalog Number: 46219

Sean D. Kelly



Half course (fall term). Th., 2–4.

Develops a general education course in Culture and Belief. What is life's meaningfulness grounded in, now that we live in a secular age? We consider conceptions of gods and the sacred in classic Western literature. The seminar will design and develop a General Education course on these themes for undergraduates.

***Philosophy 299hf. Individual Supervision**

Catalog Number: 8076

Christine M. Korsgaard and members of the Department

Half course (throughout the year). Hours to be arranged.

Note: Required of candidates for the AM or PhD in Philosophy. Consult the Department's *Supplement to the General Announcement* for details.

Cross-listed Courses

Classical Philology 224. Aristotle: Poetics - (New Course)

Economics 2054. Social Choice and Welfare Economics

Government 2096. Topics in Political Philosophy - (New Course)

***History of Science 206r. Physical Atomism in Antiquity: Epicurus and Lucretius: Seminar**

[*History of Science 207r. Late Medieval and Early Modern Atomism: Seminar - (New Course)]

[History of Science 297r. Topics in the History of Medieval Latin Science]

OEB 202. Individuality and Form in Biology - (New Course)

Graduate Courses of Reading and Research

***Philosophy 300a. Colloquium**

Catalog Number: 5615

Edward J. Hall 5324 and Bernhard Nickel 5516

Full course (fall term). M., 4–6.

An intensive study—in small, informal seminars—of selected problems in contemporary philosophy.

Note: Limited to first-year graduate students in the Department.

***Philosophy 300b. Colloquium**

Catalog Number: 6280

Selim Berker 5514

Half course (spring term). Hours to be arranged.

Continuation of Philosophy 300a.

***Philosophy 303. Colloquium: Dissertation Presentations**

Catalog Number: 1089

Susanna Siegel 2441

Half course (fall term; repeated spring term). Hours to be arranged.



***Philosophy 305. Individual Reading and Research**

Catalog Number: 4462

Selim Berker 5514, Matthew Boyle 5279 (on leave 2010-11), Peter Godfrey-Smith 3338, Warren Goldfarb 4499 (on leave 2010-11), Edward J. Hall 5324, Russell Edward Jones 6777, Frances Kamm 4280 (on leave 2010-11), Sean D. Kelly 5515, Peter Koellner 4680, Christine M. Korsgaard 2994, Douglas Lavin 5091 (on leave 2010-11), Jeffrey K. McDonough 5280 (on leave 2010-11), Richard Moran 1786 (on leave 2010-11), Bernhard Nickel 5516, Mark Richard 6603, Thomas M. Scanlon, Jr. 7986, Amartya Sen 1705 (on leave spring term), Tommie Shelby 3863, Susanna Siegel 2441, Alison Simmons 1300, and Gisela Striker 2271 (on leave spring term)
Half course (fall term; repeated spring term). Hours to be arranged.

***Philosophy 310. Research Seminars**

Catalog Number: 4465

Selim Berker 5514, Matthew Boyle 5279 (on leave 2010-11), Peter Godfrey-Smith 3338, Warren Goldfarb 4499 (on leave 2010-11), Edward J. Hall 5324, Russell Edward Jones 6777, Frances Kamm 4280 (on leave 2010-11), Sean D. Kelly 5515, Peter Koellner 4680, Christine M. Korsgaard 2994, Douglas Lavin 5091 (on leave 2010-11), Jeffrey K. McDonough 5280 (on leave 2010-11), Richard Moran 1786 (on leave 2010-11), Bernhard Nickel 5516, Mark Richard 6603, Thomas M. Scanlon, Jr. 7986, Amartya Sen 1705 (on leave spring term), Tommie Shelby 3863, Susanna Siegel 2441, Alison Simmons 1300, and Gisela Striker 2271 (on leave spring term)

Small seminars on specialized topics, arranged by members of the Department in consultation with suitably prepared graduate students. Seminars will be listed individually with numbers from 311 through 398.

***Philosophy 311. Workshop in Moral and Political Philosophy**

Catalog Number: 5370

Christine M. Korsgaard 2994 and Thomas M. Scanlon, Jr. 7986
Half course (fall term; repeated spring term). M., 4–6.

A forum for the presentation and discussion of work in progress by students in moral and political philosophy. Open only to graduate students in the Philosophy Department or by invitation of the instructors.

***Philosophy 312. Workshop in Metaphysics and Epistemology**

Catalog Number: 0576

Russell Edward Jones 6777 (fall term only), Bernhard Nickel 5516 (spring term only), Mark Richard 6603 (spring term only), and Alison Simmons 1300
Half course (fall term; repeated spring term). M., 4–6.

A forum for the presentation and discussion of work in progress by students in metaphysics and epistemology. Open only to graduate students in the Philosophy Department or by invitation of the instructors.

***Philosophy 315hf. Instructional Styles in Philosophy**

Catalog Number: 9781

Edward J. Hall 5324 and Alison Simmons 1300
Half course (throughout the year). Hours to be arranged.



Course is required for graduate students in their first year of teaching; optional for students in their second year of teaching.

***Philosophy 333. Preparation for the Topical Examination**

Catalog Number: 1967

Selim Berker 5514, Matthew Boyle 5279 (on leave 2010-11), Peter Godfrey-Smith 3338, Warren Goldfarb 4499 (on leave 2010-11), Edward J. Hall 5324, Russell Edward Jones 6777, Frances Kamm 4280 (on leave 2010-11), Sean D. Kelly 5515, Peter Koellner 4680, Christine M. Korsgaard 2994, Douglas Lavin 5091 (on leave 2010-11), Jeffrey K. McDonough 5280 (on leave 2010-11), Richard Moran 1786 (on leave 2010-11), Bernhard Nickel 5516, Mark Richard 6603, Thomas M. Scanlon, Jr. 7986, Amartya Sen 1705 (on leave spring term), Tommie Shelby 3863, Susanna Siegel 2441, Alison Simmons 1300, and Gisela Striker 2271 (on leave spring term)
Required in both fall and spring terms of all third-year graduate students in the Department.

***Philosophy 399. Direction of Doctoral Dissertations**

Catalog Number: 3283

Selim Berker 5514, Matthew Boyle 5279 (on leave 2010-11), Peter Godfrey-Smith 3338, Warren Goldfarb 4499 (on leave 2010-11), Edward J. Hall 5324, Russell Edward Jones 6777, Frances Kamm 4280 (on leave 2010-11), Sean D. Kelly 5515, Peter Koellner 4680, Christine M. Korsgaard 2994, Douglas Lavin 5091 (on leave 2010-11), Jeffrey K. McDonough 5280 (on leave 2010-11), Richard Moran 1786 (on leave 2010-11), Bernhard Nickel 5516, Mark Richard 6603, Thomas M. Scanlon, Jr. 7986, Amartya Sen 1705 (on leave spring term), Tommie Shelby 3863, Susanna Siegel 2441, Alison Simmons 1300, and Gisela Striker 2271 (on leave spring term)

Physics

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Department of Physics

Melissa Franklin, Mallinckrodt Professor of Physics (*Chair*)

Howard C. Berg, Herchel Smith Professor of Physics and Professor of Molecular and Cellular Biology

Adam E. Cohen, Assistant Professor of Chemistry and Chemical Biology and of Physics

Eugene A. Demler, Professor of Physics

Frederik Denef, Associate Professor of Physics (*on leave spring term*)

Michael Manish Desai, Assistant Professor of Organismic and Evolutionary Biology and of Physics

John M. Doyle, Professor of Physics (*on leave fall term*)

Gary J. Feldman, Frank B. Baird, Jr. Professor of Science

Douglas Finkbeiner, Associate Professor of Astronomy



Gerald Gabrielse, George Vasmer Leverett Professor of Physics
 Peter L. Galison, Joseph Pellegrino University Professor
 Howard Georgi, Mallinckrodt Professor of Physics (*Director of Undergraduate Studies*)
 Roy J. Glauber, Mallinckrodt Professor of Physics (*on leave spring term*)
 Jene A. Golovchenko, Rumford Professor of Physics and Gordon McKay Professor of Applied Physics
 Markus Greiner, Associate Professor of Physics
 Joao Pedro Guimaraes da Costa, Assistant Professor of Physics (*on leave 2010-11*)
 Bertrand I. Halperin, Hollis Professor of Mathematics and Natural Philosophy (*on leave fall term*)
 Lene V. Hau, Mallinckrodt Professor of Physics and of Applied Physics
 Thomas C. Hayes, Lecturer on Physics
 Eric J. Heller, Abbott and James Lawrence Professor of Chemistry and Professor of Physics
 Jennifer E. Hoffman, Associate Professor of Physics
 Paul Horowitz, Professor of Physics and of Electrical Engineering (*on leave 2010-11*)
 John Huth, Donner Professor of Science
 Arthur M. Jaffe, Landon T. Clay Professor of Mathematics and Theoretical Science
 Efthimios Kaxiras, John Hasbrouck Van Vleck Professor of Pure and Applied Physics
 John M. Kovac, Assistant Professor of Astronomy and of Physics
 Erel Levine, Assistant Professor of Physics
 Mikhail D. Lukin, Professor of Physics (*on leave spring term*)
 Vinodhan N. Manoharan, Associate Professor of Chemical Engineering and of Physics
 Charles M. Marcus, Professor of Physics
 Eric Mazur, Balkanski Professor of Physics and Applied Physics, Area Dean for Applied Physics
 Logan S. McCarty, Lecturer on Physics, Lecturer on Chemistry and Chemical Biology
 Masahiro Morii, Professor of Physics
 David J. Morin, Lecturer on Physics (*Associate Director of Undergraduate Studies*)
 Cherry Murray, John A. and Elizabeth S. Armstrong Professor of Engineering and Applied Sciences and Professor of Physics, Dean of Harvard School of Engineering and Applied Sciences
 Venkatesh Narayanamurti, Benjamin Peirce Professor of Technology and Public Policy
 David R. Nelson, Arthur K. Soloman Professor of Biophysics and Professor of Physics and Applied Physics
 Hongkun Park, Professor of Chemistry and Chemical Biology and of Physics
 Peter S. Pershan, Frank B. Baird, Jr. Professor of Science
 Mara Prentiss, Mallinckrodt Professor of Physics
 Lisa Randall, Frank B. Baird, Jr. Professor of Science
 Subir Sachdev, Professor of Physics (*Director of Graduate Studies*)
 Aravinthan D. T. Samuel, Professor of Physics (*on leave fall term*)
 Matthew D. Schwartz, Assistant Professor of Physics
 Irwin I. Shapiro, Timken University Professor
 Isaac F. Silvera, Thomas D. Cabot Professor of the Natural Sciences (*on leave spring term*)
 Andrew Strominger, Gwill E. York Professor of Physics
 Christopher Stubbs, Professor of Physics and of Astronomy, Harvard College Professor (*on leave spring term*)
 Cumrun Vafa, Donner Professor of Science (*on leave fall term*)
 Ronald L. Walsworth, Senior Lecturer on Physics



David A. Weitz, Mallinckrodt Professor of Physics and of Applied Physics
Robert M. Westervelt, Mallinckrodt Professor of Applied Physics and of Physics (*on leave fall term*)
Tai T. Wu, Gordon McKay Professor of Applied Physics and Professor of Physics
Amir Yacoby, Professor of Physics (*on leave 2010-11*)
Xi Yin, Assistant Professor of Physics
Xiaowei Zhuang, Professor of Chemistry and Chemical Biology and of Physics

Other Faculty Offering Instruction in Physics

Gerald Holton, Mallinckrodt Professor of Physics and Professor of the History of Science, Emeritus
Andrew J. M. Kiruluta, Associate Professor of Radiology (*Medical School*)

There are three separate calculus-based sequences of courses covering introductory physics: Physical Sciences 1, 2, and 3 and Physics 11a, 11b, or at the intermediate calculus level, Physics 15a, 15b, 15c. 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.

Physical Sciences 1, 2, and 3 present an introductory treatment of college physics and chemistry in 3 semesters. The courses will be thematically driven, with the themes being related to major societal issues and/or biological systems where appropriate. The Physical Sciences sequence is designed to meet 2 semesters of the physics as well as 1 semester of the chemistry required by all medical schools, and is intended to teach physical concepts in a way that is immediately relevant to students in the life sciences.

Most medical schools also accept the Physics 15 or Physics 11 sequences. Premedical students should inquire at the medical schools to which they expect to apply. Students who do not intend to take advanced courses in the mathematical sciences, and especially those concentrating in biology or biochemistry, may find that the Physical Sciences 1, 2, and 3 sequence covers a broader range of subject matter, and might more appropriately serve their needs than Physics 11a and 11b.

Further details may be found under the individual course headings.

Primarily for Undergraduates

[Physical Sciences 1. Chemical Bonding, Energy, and Reactivity: An Introduction to the Physical Sciences](#)

Catalog Number: 2225



Hongkun Park and Adam E. Cohen

Half course (spring term). M., W., F., at 10. EXAM GROUP: 3

This course covers the chemistry and physics underlying molecular phenomena in the world around you. Starting from a single electron, we will build up to atoms, molecules, and materials. We will study interactions of molecules through thermochemistry, equilibria, entropy and free energy, acids and bases, electrochemistry, and kinetics. We will apply these concepts to (1) world energy demands and global climate change (2) application of physical principles in biology, and (3) modern materials and technology.

Note: This course is part of an integrated introduction to the physical science intended for students who plan to pursue a concentration in the physical or life sciences and/or satisfy pre-medical requirements in Chemistry. May not be counted toward a degree in addition to the former Chemistry 7. Students interested in Physical Sciences 1 should take the Chemistry Placement Exam. This course, when taken for a letter grade, meets the General Education requirement for Science of the Physical Universe or the Core area requirement for Science A.

Prerequisite: A few operations of calculus are developed and used. Fluency in pre-calculus secondary school mathematics is assumed. Students are expected to have AP or honors level high school chemistry, or have completed Life and Physical Sciences A (LPS A) with a satisfactory grade.

Physical Sciences 2. Mechanics, Elasticity, Fluids, and Diffusion

Catalog Number: 6053

Logan S. McCarty and Vinodhan N. Manoharan

Half course (fall term). Tu., Th., 9:30-11, and a weekly section and lab to be arranged. EXAM GROUP: 11, 12

An introduction to classical mechanics, with special emphasis on the motion of organisms in fluids. Topics covered include: kinematics, Newton's laws of motion, oscillations, elasticity, random walks, diffusion, and fluids. Examples and problem set questions will be drawn from the life sciences and medicine.

Note: This course, when taken for a letter grade, meets the General Education requirement for Science of the Physical Universe or Empirical and Mathematical Reasoning, but not both. This course, when taken for a letter grade, meets the Core area requirement for Science A.

Prerequisite: Physical Sciences 1 (or Chemistry 7), Mathematics 1b, or the equivalent.

Physical Sciences 3. Electromagnetism, Circuits, Waves, Optics, and Imaging

Catalog Number: 5262

John Huth and Logan S. McCarty

Half course (spring term). Tu., Th., 9:30-11, and a weekly section and lab to be arranged. EXAM GROUP: 11, 12

This course is an introduction to electromagnetism, digital information, waves, optics and sound. Topics covered include: electric and magnetic fields, electrical potential, circuits, simple digital circuits, wave propagation in various media, microscopy, sound and hearing. The course will draw upon a variety of applications to the biological sciences and will use real-world examples to illustrate many of the physical principles described. There are six laboratories.

Note: This course is part of an integrated introduction to the physical sciences intended for students who plan to pursue a concentration in the life sciences and/or satisfy pre-medical requirements in Physics. May not ordinarily be taken for credit in addition to Physics 1b, 11b, or



15b. This course, when taken for a letter grade, meets the General Education requirement for Science of the Physical Universe or Empirical and Mathematical Reasoning, but not both. This course, when taken for a letter grade, meets the Core area requirement for Science A.

Prerequisite: Physical Sciences 2 (or Physics 1a or 11a), Mathematics 1b, or equivalent.

Physics 11a. Mechanics

Catalog Number: 3131

Charles M. Marcus

Half course (fall term). Tu., Th., 11:30-1; and a weekly 90-minute section to be arranged. EXAM GROUP: 13, 14

Physics 11a is the first half of a one-year physics sequence. It introduces classical mechanics, including the laws of conservation of energy, momentum, and angular momentum; translational motion of particles, rigid bodies, and fluids; rotational motion of rigid bodies; and description of waves. Physics 11a may be taken by students who have taken or who are concurrently taking Math 1b. Calculus is used routinely but the emphasis is placed on the basic concepts.

Note: Physics 11a may not be taken for credit by students who have passed Physics 15a or 16. This course, when taken for a letter grade, meets the General Education requirement for Science of the Physical Universe or Empirical and Mathematical Reasoning, but not both. This course, when taken for a letter grade, meets the Core area requirement for Science A.

Physics 11b. Electricity, Magnetism, and Waves

Catalog Number: 5472

Eric Mazur

Half course (spring term). Tu., Th., 9:30–11. EXAM GROUP: 11, 12

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.

Note: May not be taken for credit by students who have passed Physics 15b or Physics 15c. This course, when taken for a letter grade, meets the General Education requirement for Science of the Physical Universe or Empirical and Mathematical Reasoning, but not both. This course, when taken for a letter grade, meets the Core area requirement for Science A.

Prerequisite: Physics 11a; Mathematics 1b. Additionally, some elementary ideas from multivariable calculus will be used and students are encouraged to take Mathematics 19a, 21a or Applied Mathematics 21a concurrently.

Physics 15a. Introductory Mechanics and Relativity

Catalog Number: 1984

David J. Morin

Half course (fall term; repeated spring term). Tu., Th., 11:30-1. EXAM GROUP: 13, 14

Newtonian mechanics and special relativity. Topics include vectors; kinematics in three dimensions; Newton's laws; force, work, power; conservative forces, potential energy; momentum, collisions; rotational motion, angular momentum, torque; static equilibrium, oscillations, simple harmonic motions; gravitation, planetary motion; fluids; special relativity.

Note: Laboratory sessions may be arranged. This course, when taken for a letter grade, meets the General Education requirement for Science of the Physical Universe or Empirical and Mathematical Reasoning, but not both. This course, when taken for a letter grade, meets the Core



area requirement for Science A.

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

Masahiro Morii

Half course (fall term; repeated spring term). Tu., Th., 11:30-1. EXAM GROUP: 13, 14

Electricity and magnetism. Topics include electrostatics, electric currents, magnetic field, electromagnetic induction, Maxwell's equations, electromagnetic radiation, and electric and magnetic fields in materials.

Note: Four laboratory experiments, plus one introductory laboratory session, support the material presented in the lectures and the text. This course, when taken for a letter grade, meets the General Education requirement for Science of the Physical Universe or Empirical and Mathematical Reasoning, but not both. This course, when taken for a letter grade, meets the Core area requirement for Science A.

Prerequisite: Physics 15a, Physics 16, or written permission of the Head Tutor in Physics. Mathematics preparation at least at the level of Mathematics 21a taken concurrently is required. Vector calculus, (div, grad and curl) are used extensively--in principle, this is taught in the course. Students taking Mathematics 21a concurrently will likely find that some concepts are introduced in Physics 15b before they have seen them in Mathematics 21a. Some students may wish to postpone Physics 15b until they have completed Mathematics 21a.

Physics 15c. Wave Phenomena

Catalog Number: 8676

Jennifer E. Hoffman (fall term) and Matthew D. Schwartz (spring term)

Half course (fall term; repeated spring term). Fall: Tu., Th., 1:30-3; Spring: Tu., Th., 1-2:30.

EXAM GROUP: 15, 16

Forced oscillation and resonance; coupled oscillators and normal modes; Fourier series; Electromagnetic waves, radiation, longitudinal oscillations, sound; traveling waves; signals, wave packets and group velocity; two- and three-dimensional waves; polarization; geometrical and physical optics; interference and diffraction. Optional topics: Water waves, holography, x-ray crystallography. Solitons.

Note: The Laboratory section of the course will be taught at the Science Center. The labs will be carried out in 3-hour sessions once a week for up to 8 weeks during the semester. This course, when taken for a letter grade, meets the General Education requirement for Science of the Physical Universe or Empirical and Mathematical Reasoning, but not both. This course, when taken for a letter grade, meets the Core area requirement for Science A.

Prerequisite: Physics 15a, Physics 15b, or written permission of the Head Tutor in Physics. Mathematics preparation at least at the level of Mathematics 21b taken concurrently is required. Some prior knowledge of complex numbers (for example as taught in Mathematics 1b) is helpful. Linear algebra and differential equations are used extensively. Students taking Mathematics 21b concurrently will likely find that some concepts are introduced in Physics 15c before they have seen them in Mathematics 21b. Some students may wish to postpone Physics 15c until they have completed Mathematics 21b.

**Physics 16. Mechanics and Special Relativity**

Catalog Number: 2019

*Howard Georgi**Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Newtonian mechanics and special relativity for students with good preparation in physics and mathematics at the level of the advanced placement curriculum. Topics include oscillators damped and driven and resonance (how to rock your car out of a snow bank or use a swing), an introduction to Lagrangian mechanics and optimization, symmetries and Noether's theorem, special relativity, collisions and scattering, rotational motion, angular momentum, torque, the moment of inertia tensor (dynamic balance), gravitation, planetary motion, and a quantitative introduction to some of the mind-bending ideas of modern cosmology like inflation and dark energy.

Note: Laboratory sessions may be arranged. Emphasis is placed on collaborative teaching and learning. Many class materials are Mathematics notebooks. This course, when taken for a letter grade, meets the General Education requirement for Science of the Physical Universe or Empirical and Mathematical Reasoning, but not both. This course, when taken for a letter grade, meets the Core area requirement for Science A.

Prerequisite: Score of 5 on the mechanics section of the Physics C Advanced Placement exam, or equivalent. Mathematics preparation at least at the level of Mathematics 21a taken concurrently is required. Thorough knowledge of calculus of one variable and vectors plus some mathematical sophistication. The mathematical level will be significantly higher than that of Physics 15a.

***Physics 90r. Supervised Research**

Catalog Number: 2460

*David J. Morin and members of the Department**Half course (fall term; repeated spring term). Hours to be arranged.*

Primarily for selected concentrators in Physics, or in Chemistry and Physics, who have obtained honor grades in Physics 15 and a number of intermediate-level courses. The student must be accepted by some member of the faculty doing research in the student's field of interest. The form of the research depends on the student's interest and experience, the nature of the particular field of physics, and facilities and support available. Students wishing to write a senior thesis can do so by arranging for a sponsor and enrolling in this course.

Note: A list of possible faculty sponsors and their fields is available in Lyman 238 and on the Physics Department Web page. Course enrollment forms may be obtained from Lyman 238.

***Physics 91r. Supervised Reading Course for Undergraduates**

Catalog Number: 1218

*David J. Morin and members of the Department**Half course (fall term; repeated spring term). Hours to be arranged.*

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.



Note: A list of possible faculty sponsors and their fields is available in Lyman 238 and on the Physics Department's website. Course enrollment forms may be obtained from Lyman 238.

***Physics 95. Topics in Current Research**

Catalog Number: 2806 Enrollment: Limited to 10.

Eric Mazur

Half course (fall term). Section i: M., 3:30-5; Section ii: W., 7:30-9 p.m.

The goal of this tutorial is twofold. First, students will learn about a range of modern physics research topics from experts at Harvard as well as from one another. Every Wednesday evening a faculty member speaks on his/her area of research, preceded by assigned reading and a student presentation designed to introduce the basic physics, as well as important developments and burning problems at the frontiers of that particular research area. Second, the tutorial provides structured activities to help students develop practical skills for their future careers, expanding knowledge on unfamiliar subjects, participating in discussions, presenting and writing clearly about complex topics, and engaging in self and peer evaluation.

Note: Primarily for junior and senior concentrators. First class meeting M 2:30-4. Monday class time to be rescheduled to fit everyone's schedule.

Cross-listed Courses

Science of the Physical Universe 13 (formerly Science A-49). The Physics of Music and Sound

[Science of the Physical Universe 18 (formerly Science A-39). Time]

[Science of the Physical Universe 23 (formerly 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 123. Laboratory Electronics

Catalog Number: 0864 Enrollment: Limited to 22 students per section.

Thomas C. Hayes

Half course (fall term; repeated spring term). Tu., Th., 1:30-5. EXAM GROUP: 15, 16, 17, 18

A lab-intensive introduction to electronic circuit design. Develops circuit intuition and debugging skills through daily hands-on lab exercises, each preceded by class discussion, with minimal use of mathematics and physics. Moves quickly from passive circuits, to discrete transistors, then concentrates on operational amplifiers, used to make a variety of circuits including integrators, oscillators, regulators, and filters. The digital half of the course treats analog-digital interfacing, emphasizes the use of microcontrollers and programmable logic devices (PLDs).

Note: Regardless of section choice, all students must attend first course meeting on September 2, 2010 or January 25, 2011 at 1:30 in Science Center 206. This course, when taken for a letter grade, meets the General Education requirement for Science of the Physical Universe or the Core area requirement for Science A.

**Physics 125. Widely Applied Physics**

Catalog Number: 6990

*Gerald Gabrielse**Half course (fall term). M., W., 9:30–11.*

Applies elementary physics to real things and practical situations. Emphasis is on developing physical intuition and the ability to do order-of-magnitude calculations. New physical concepts are introduced as necessary. Example topics: the Big Bang, stars, nuclear reactions, and searches for extra-solar planets; aerodynamics, rockets and spacecraft; materials properties; electronic noise, lasers, and the global positioning system; magnetic resonance imaging, physiology of major organs, and health risks; energy use and production; climate and global change.

Note: This course, when taken for a letter grade, meets the General Education requirement for Science of the Physical Universe or the Core area requirement for Science A.

Prerequisite: Physics 15a, b, c, and mathematics at the level of Mathematics 21a (which may be taken concurrently). Physics 143a and 181 helpful, but not required.

Physics 129. Energy Science

Catalog Number: 42157

*Lene V. Hau**Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Non-fossil energy sources and energy storage are important for our future. We cover four main subjects to which students with a background in physics and physical chemistry could make paradigm changing contributions: photovoltaic cells, nuclear power, batteries, and photosynthesis. Fundamentals of electrodynamics, statistical/thermal physics, and quantum mechanics are taught as needed to give students an understanding of the topics covered.

Prerequisite: Physics 15a (or 16), 15b,c or 11a,b. Pre/co-requisite Physics 143a or Chemistry 160 or equivalent.

Physics 136. Physics of Medical Imaging

Catalog Number: 0182

*Andrew J. M. Kiruluta (Medical School)**Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

This course presents the underlying physics of modern medical diagnostic imaging techniques. We will explore the physics of diagnostic imaging from a unified electromagnetics' viewpoint ranging from a simple mapping of radiation attenuation coefficients in X-ray, to resonance absorption in a nuclear magnetic resonance (NMR) induced inhomogeneously broadened RF absorber. The bulk of the course will focus on the powerful technique of NMR imaging. Flexibility exists to vary the depth of each area depending on background and experience of the students.

Prerequisite: Physics 15b or 11b and mathematics preparation at least to the level of Mathematics 21b taken concurrently. Physics 143a and b are recommended but not essential.

[Physics 141. The Physics of Sensory Systems in Biology]

Catalog Number: 1284 Enrollment: Limited to 15.

*Aravinthan D. T. Samuel**Half course (fall term). Hours to be arranged.*

Living organisms use sensory systems to inform themselves of the sights, sounds, and smells of



their surrounding environments. Sensory systems are physical measuring devices, and are therefore subject to certain limits imposed by physics. Here we will consider the physics of sensory measurement and perception, and study ways that biological systems have solved their underlying physical problems. We will discuss specific cases in vision, olfaction, and hearing from a physicist's point of view.

Note: Expected to be given in 2011–12.

Prerequisite: Physics 11a,b or 15 a,b,c required. Physics 181 recommended, but not required.

Physics 143a. Quantum Mechanics I

Catalog Number: 1050

Gary J. Feldman (fall term) and Cumrun Vafa (spring term)

Half course (fall term; repeated spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

Introduction to nonrelativistic quantum mechanics: uncertainty relations; Schrödinger equation; Dirac notation; matrix mechanics; one-dimensional problems including particle in box, tunneling, and harmonic oscillator; angular momentum, hydrogen atom, spin, Pauli principle; time-independent perturbation theory; scattering.

Prerequisite: Linear algebra including matrix diagonalization; Physics 15c or written permission of the Head Tutor.

Physics 143b. Quantum Mechanics II

Catalog Number: 0253

Subir Sachdev

Half course (fall term). Tu., Th., 10–11:30, and a weekly section to be arranged. EXAM GROUP: 12, 13

Time dependent perturbation theory, resonance, spin-1/2 systems, harmonic excitation; identical particles; emission and absorption of radiation; scattering, partial wave analysis, the Born approximation, scattering length; other topics as time permits including density matrix, entanglement, quantum computing, decoherence, tensor operators.

Prerequisite: Physics 143a.

Physics 145. Elementary Particle Physics

Catalog Number: 6057

Gary J. Feldman

Half course (spring term). Lecture meets M., W., (F.) at 10; seminars and sections Tu., Th., 7:30–9 p.m., as needed. EXAM GROUP: 3

Introduction to elementary particle physics. Emphasis is on concepts and phenomenology rather than on a detailed calculational development of theories. Starts with the discovery of the electron in 1897, ends with the theoretical motivation for the Higg's boson, and attempts to cover everything important in between. Taught partly in seminar mode, with each student presenting a classic paper of the field.

Prerequisite: Physics 143a. Physics 143b or equivalent is useful.

Physics 151. Mechanics

Catalog Number: 2068

Arthur M. Jaffe

Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14



Fundamental ideas of classical mechanics including contact with modern work and applications. Topics include Lagrange's equations, the role of variational principles, symmetry and conservation laws, Hamilton's equations, Hamilton-Jacobi theory and phase space dynamics. Applications to celestial mechanics, quantum mechanics, the theory of small oscillations and classical fields, and nonlinear oscillations, including chaotic systems presented.

Prerequisite: Physics 15a, 15b or written permission of the Head Tutor; Mathematics 21a, b or equivalent.

Physics 153. Electrodynamics

Catalog Number: 0264

Jene A. Golovchenko

Half course (spring term). Tu., Th., 9:30–11. EXAM GROUP: 11, 12

Aimed at advanced undergraduates. Emphasis on the properties and sources of the electromagnetic fields and on the wave aspects of the fields. Course starts with electrostatics and subsequently develops the Maxwell equations. Topics: electrostatics, dielectrics, magnetostatics, electrodynamics, radiation, wave propagation in various media, wave optics, diffraction and interference. A number of applications of electrodynamics and optics in modern physics are discussed.

Prerequisite: Physics 15a, b, and c, or written permission of the Head Tutor; Mathematics 21a, b or equivalent.

[Physics 167. Condensed Matter Physics of Modern Technologies]

Catalog Number: 4654

Instructor to be determined

Half course (fall term). Hours to be arranged.

This course will explore how recent developments in condensed matter physics are expanding the frontiers of modern technologies. We will review semiconducting, magneto- and optoelectronic devices, magnetoresistive materials, carbon nanotubes, and high temperature superconductors. Technologies in the earliest stages of their development, such as nanotechnology, quantum computations and communication, will also be discussed.

Note: Expected to be given in 2011–12.

Prerequisite: Quantum mechanics (Physics 143a).

Physics 175. Laser Physics and Modern Optical Physics

Catalog Number: 9076

Markus Greiner

Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16

Introduction to laser physics and modern optical physics aimed at advanced undergraduates. Review of electromagnetic theory and relevant aspects of quantum mechanics. Wave nature of light. Physics of basic optical elements. Propagation of focused beams, optical resonators, dielectric waveguides. Interaction of light with matter, introduction to quantum optics. Lasers. Physics of specific laser systems. Introduction to nonlinear optics. Modern applications.

Prerequisite: Physics 15b, 15c, 143a, or permission of the instructor.

Physics 181. Statistical Mechanics and Thermodynamics

Catalog Number: 6346



Erel Levine

Half course (spring term). M., W., F., at 11. EXAM GROUP: 4

Introduction to thermal physics: basic concepts of thermodynamics (energy, heat, work, temperature, and entropy), classical and quantum ensembles and partition functions.

Applications include theory of solids (Debye and Einstein); black body radiation (Planck); classical and quantum gases and liquids; magnetism and phase transitions; biological molecules and signals.

Note: May not be taken for credit in addition to Engineering Sciences 181.

Prerequisite: Physics 143a or equivalent.

***Physics 191r. Advanced Laboratory**

Catalog Number: 7711 Enrollment: Together with Physics 247r, limited to a total of 24 students.

Peter S. Pershan, Jennifer E. Hoffman (spring term), Isaac F. Silvera (fall term), and Ronald L. Walsworth (spring term)

Half course (fall term; repeated spring term). Tu., Th., 1–5. EXAM GROUP: Fall: 15, 16, 17; Spring: 15, 16, 17, 18

Students carry out three experimental projects selected from those available representing condensed matter, atomic, nuclear, and particle physics. Included are nuclear magnetic resonance, microwave spectroscopy, optical pumping, scattering of laser light, neutron activation of radioactive isotopes, Compton scattering of gamma rays, the relativistic mass of the electron, recoil free gamma-ray resonance, the lifetime of the muon, studies of superfluid helium, positron annihilation superconducting transitions, the quantum Hall effect, and properties of semiconductors. The facilities of the laboratory include several computer controlled experiments as well as computers for analysis.

Note: A substantial amount of outside reading is expected.

Prerequisite: Physics 15a or 16, 15b, 15c. Physics 143a is highly recommended.

[Physics 195. Introduction to Solid State Physics]

Catalog Number: 2978

Instructor to be determined

Half course (spring 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, lattice vibrations, specific heat, energy band theory of metals and semiconductors and insulators, electrical transport in metals and semiconductors, optical and magnetic properties, and superconductivity.

Note: Expected to be given in 2011–12. Designed as a first course in solid state physics for students with knowledge of elementary quantum mechanics (Physics 143a). Some knowledge of statistical physics (Physics 181) is also helpful, but not a formal prerequisite. Students who propose to take Applied Physics 295a in the spring term, and who have not previously taken a formal course in solid state physics, are strongly advised to take this course first. It is suggested that students may wish to take Applied Physics 195 when this course is bracketed.

Cross-listed Courses

Applied Mathematics 147. Nonlinear Dynamical Systems

Applied Physics 195. Introduction to Solid State Physics



[**Astronomy 150. Radiative Processes in Astrophysics**](#)

[**Astronomy 191. Astrophysics Laboratory**](#)

[**Chemistry 160. Physical Chemistry**](#)

[**Chemistry 161. Statistical Thermodynamics**](#)

[**Chemistry 163. Frontiers in Biophysics**](#)

[***Chemistry 165. Experimental Physical Chemistry**](#)

[**\[Earth and Planetary Sciences 131. Introduction to Physical Oceanography and Climate\]**](#)

[**Earth and Planetary Sciences 135. Physics and Chemistry: In the Context of Energy and Climate at the Global and Molecular Level - \(New Course\)**](#)

[**Earth and Planetary Sciences 161 \(Global Tectonics\). Planetary Physics and Global Tectonics**](#)

[**Engineering Sciences 120. Introduction to the Mechanics of Solids**](#)

[**Engineering Sciences 123. Introduction to Fluid Mechanics and Transport Processes**](#)

[**Engineering Sciences 154. Electronic Devices and Circuits**](#)

[**Engineering Sciences 173. Introduction to Electronic and Photonic Devices**](#)

[**Engineering Sciences 181. Engineering Thermodynamics**](#)

[**Engineering Sciences 190. Introduction to Materials Science and Engineering**](#)

[**\[MCB 131. Computational Neuroscience\]**](#)

[**Science of the Physical Universe 13 \(formerly Science A-49\). The Physics of Music and Sound**](#)

[**\[Science of the Physical Universe 15 \(formerly Science A-45\). Reality Physics\]**](#)

[**Science of the Physical Universe 20. What is Life? From Quarks to Consciousness**](#)

[**Science of the Physical Universe 22. The Unity of Science: From the Big Bang to the Brontosaurus and Beyond**](#)

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., 2:30–4. EXAM GROUP: 7, 8

An introduction to general relativity: Riemannian geometry, the Principle of Equivalence, Einstein's field equation, the Schwarzschild solution, the Newtonian limit, experimental tests, black holes.

Prerequisite: Physics 151 and 153, and Mathematics 21 or equivalents.

[**Physics 211. Black Holes from A to Z**](#)

Catalog Number: 0469

Andrew Strominger

Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

A survey of black holes focusing on the deep puzzles they present concerning the relations



between general relativity, quantum mechanics and thermodynamics. Topics include: causal structure, event horizons and Penrose diagrams, experimental tests, the laws of black hole thermodynamics, Hawking radiation, the information puzzle, the Bekenstein-Hawking entropy/area law, microstate counting, holography and condensed matter applications. Parallel issues arising in cosmologies with event horizons will also be covered.

Prerequisite: General relativity at level of Physics 210 or equivalent. Physics 253a helpful, but not required.

***Physics 215. Biological Dynamics - (New Course)**

Catalog Number: 90876 Enrollment: Open to undergraduates with instructor permission.

Erel Levine

Half course (fall term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17

Develops theoretical basis for modeling and quantitative analysis of biological problems.

Emphasis on contemporary research topics, including molecular, cellular and tissue dynamics; development and differentiation; signal- and mechano-transduction; individuals, populations and environments.

Note: It is suggested that students may wish to take AP215 when this course is bracketed. May not be taken for credit in addition to AP215.

Prerequisite: Knowledge of differential equations and statistical mechanics at undergraduate level.

Physics 232 (formerly Physics 232a). Advanced Classical Electromagnetism

Catalog Number: 4885

Bertrand I. Halperin

Half course (spring term). M., W., F., at 10. EXAM GROUP: 3

Maxwell's equations in free space and in macroscopic media; conservation laws; time-dependent solutions and radiation; scattering and diffraction. Additional topics may include Lorentz transformations and radiation from rapidly moving accelerating charges; waves in a dispersive medium; wave guides.

Prerequisite: Physics 153 and Applied Math 105a, 105b, or equivalent.

***Physics 247r. Laboratory Course in Contemporary Physics**

Catalog Number: 8665 Enrollment: Together with Physics 191r, limited to a total of 24 students.

Peter S. Pershan, Jennifer E. Hoffman (spring term), Isaac F. Silvera (fall term), and Ronald L. Walsworth (spring term)

Half course (fall term; repeated spring term). Tu., Th., 1–5. EXAM GROUP: Fall: 15, 16, 17; Spring: 15, 16, 17, 18

Three experimental projects are selected representing condensed matter, atomic, nuclear, and particle physics. Examples: experiments on NMR, microwave spectroscopy, optical pumping, scattering of laser light, neutron activation, Compton scattering of gamma rays, relativistic mass of the electron, recoil-free gamma ray resonance, lifetime of the muon, superfluid helium, superconducting transitions, and properties of semiconductors.

Note: A substantial amount of outside reading may be required.

[Physics 248. Phenomena of Elementary Particle Physics]

Catalog Number: 5431



Instructor to be determined

Half course (fall term). Hours to be arranged.

Topics in the phenomena of elementary particle physics, including weak interactions, QCD, deep inelastic scattering and nucleon structure functions, and heavy quark production and decay.

Note: Expected to be given in 2011–12.

Prerequisite: Physics 145 or equivalent, i.e. a course at the level of Griffiths, Introduction to Elementary Particles.

Physics 251a. Advanced Quantum Mechanics I

Catalog Number: 2191

Frederik Denef

Half course (fall term). M., W., F., at 12. EXAM GROUP: 5

Basic course in nonrelativistic quantum mechanics. Review of wave functions and the Schrödinger Equation; Hilbert space; the WKB approximation; central forces and angular momentum; scattering; electron spin; measurement theory; the density matrix; time-independent perturbation theory.

Prerequisite: Physics 143a, b or equivalent, or permission of instructor.

Physics 251b. Advanced Quantum Mechanics II

Catalog Number: 2689

Xi Yin

Half course (spring term). M., W., F., at 12. EXAM GROUP: 5

Heisenberg picture; time-dependent perturbations; inelastic scattering; degenerate harmonic oscillators; electrons in a uniform magnetic field; quantized radiation field; absorption and emission of radiation; identical particles and second quantization; symmetry principles; Feynman Path integrals.

Prerequisite: Physics 251a.

Physics 253a. Quantum Field Theory I

Catalog Number: 8050

Matthew D. Schwartz

Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16

Introduction to relativistic quantum field theory. This course covers quantum electrodynamics. Topics include canonical quantization, Feynman diagrams, spinors, gauge invariance, path integrals, ultraviolet and infrared divergences, renormalization and applications to the quantum theory of the weak and gravitational forces.

Prerequisite: Physics 143a,b or equivalents.

Physics 253b. Quantum Field Theory II

Catalog Number: 5250

Howard Georgi

Half course (spring term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16

A continuation of Physics 253a. spontaneous symmetry breaking and Goldstone bosons, chiral anomalies, effective field theory, non-Abelian gauge theories, the Higgs mechanism, and an introduction to the standard model, quantum chromodynamics and grand unification. Other possible subjects include solitons, quantum gravity, conformal field theory, supersymmetry and



applications to condensed matter physics.

Prerequisite: Physics 253a.

Physics 253c. Quantum Field Theory III

Catalog Number: 4000

Lisa Randall

Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

This course explores advanced topics in quantum field theory. Possible topics include semi-classical methods, tunneling in flat and curved spaces, topological defects, lattice gauge theories, conformal field theories in diverse dimensions, large N and string description of gauge theory, the AdS/CFT correspondence, and supersymmetric gauge theories in four dimensions.

Prerequisite: Physics 253b.

Physics 262. Statistical Physics

Catalog Number: 1157

Amir Yacoby

Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

Four basic principles of statistical physics and thermodynamics, with applications including: the equilibrium properties of classical and quantum gases; phase diagrams, phase transitions and critical points, as illustrated by the gas-liquid transition and simple magnetic models; Bose-Einstein condensation. Interactions and correlations; introduction to renormalization group.

Note: Students may wish to take Applied Physics 284 when this course is bracketed.

Prerequisite: Physics 143a, b and Physics 181 or Engineering Sciences 181.

Physics 268r. Classical and Quantum Phase Transitions

Catalog Number: 7951

Subir Sachdev

Half course (spring term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17

The theory of phase transitions at zero and non-zero temperatures. Landau theory. Fluctuations and field theory. Renormalization group. Quantum transitions between insulators, superfluids, metals, and magnets. Modern ideas on the description of correlated states by emergent gauge fields.

Prerequisite: Physics 262 or equivalent.

[Physics 269r. Topics in Statistical Physics and Physical Biology]

Catalog Number: 6214

Instructor to be determined

Half course (spring term). Hours to be arranged.

Introduction to strongly interacting soft condensed matter and biophysical systems. We hope to discuss the theory of flexible polymer chains, function and structure of DNA, RNA and proteins, single molecule biophysics, molecular motors, gene regulation and the statistical dynamics of mutations, selection and genetic drift.

Note: Expected to be given in 2011–12.

Prerequisite: Physics 262, Applied Physics 284 or equivalent.

**Physics 271 (formerly Physics 287). Topics in the Physics of Quantum Information**

Catalog Number: 7647

*Mikhail D. Lukin**Half course (fall term). M., W., 12–1:30. EXAM GROUP: 5, 6*

Introduction to physics of quantum information, with emphasis on ideas and experiments ranging from quantum optics to condensed matter physics. Background and theoretical tools will be introduced. The format is a combination of lectures and class presentations.

Prerequisite: Quantum mechanics at the level of introductory graduate courses.

[Physics 283b. Beyond the Standard Model]

Catalog Number: 7153

*Instructor to be determined**Half course (fall term). Hours to be arranged.*

Covers current advances in particle physics beyond the Standard Model. Topics could include supersymmetry, the physics of extra dimensions, experimental searches, including for T violation, and connections between particle physics and cosmology.

Note: Expected to be given in 2011–12.

Physics 284. Strongly Correlated Systems in Atomic and Condensed Matter Physics

Catalog Number: 4673

*Eugene A. Demler**Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13*

Explores an emerging interface involving strongly correlated systems in atomic and condensed matter physics. Topics include bosonic and fermionic Hubbard models, quantum spin systems, low dimensional systems, non-equilibrium coherent dynamics and system-bath interactions. Special attention to the physics of ultracold atoms. Lectures and seminar-like class presentations.

Prerequisite: Graduate quantum mechanics or permission of instructor.

Physics 285a. Modern Atomic and Optical Physics I

Catalog Number: 8204

*Gerald Gabrielse**Half course (spring term). M., W., 12-1:30. EXAM GROUP: 5, 6*

Introduction to modern atomic physics. The fundamental concepts and modern experimental techniques will be introduced. Topics will include two-state systems, magnetic resonance, interaction of radiation with atoms, transition probabilities, spontaneous and stimulated emission, dressed atoms, trapping, laser cooling of “two-level” atoms, structure of simple atoms, fundamental symmetries, two-photon excitation, light scattering and selected experiments. The first of a two-term subject sequence that provides the foundations for contemporary research.

Prerequisite: One course in quantum mechanics (143a and b, or equivalent).

[Physics 285b. Modern Atomic and Optical Physics II]

Catalog Number: 4195

*Instructor to be determined**Half course (fall term). Hours to be arranged.*

Introduction to quantum optics and modern atomic physics. The basic concepts and theoretical tools will be introduced. Topics will include coherence phenomena, non-classical states of light



and matter, atom cooling and trapping and atom optics. The second of a two-term subject sequence that provides the foundations for contemporary research.

Note: Expected to be given in 2011–12.

Prerequisite: A course in electromagnetic theory (Physics 232a or equivalent); one half-course in intermediate or advanced quantum mechanics.

[Physics 287a. Introduction to String Theory]

Catalog Number: 2012

Instructor to be determined

Half course (fall term). Hours to be arranged.

Introduction to the perturbative formulation of string theories and dualities. Quantization of bosonic and superstrings, perturbative aspects of scattering amplitudes, supergravity, D-branes, T-duality and mirror symmetry. Also a brief overview of recent developments in string theory.

Note: Expected to be given in 2011–12.

Prerequisite: Physics 253a, b or equivalent.

Physics 287br. Topics in String Theory

Catalog Number: 4555

Xi Yin

Half course (fall 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. Euclidean Random Fields, Relativistic Quantum Fields and Positive Temperature

Catalog Number: 6400

Arthur M. Jaffe

Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

The course will give the reconstruction of relativistic quantum fields from Euclidean fields as well as the relation between representations of the Poincaré group to those of Euclidean group. Related topics are reflection positivity and Osterwalder-Schrader quantization, and supersymmetry, some of which will be covered.

Prerequisite: Physics 253a

Cross-listed Courses

Applied Mathematics 201. Physical Mathematics I

[Applied Mathematics 202. Physical Mathematics II]

Applied Mathematics 205. Practical Scientific Computing

Applied Physics 216. Modern Optics and Quantum Electronics

[Applied Physics 217. Applications of Modern Optics]

[Applied Physics 284. Statistical Thermodynamics]

Applied Physics 295a. Introduction to Quantum Theory of Solids

Applied Physics 295b. Quantum Theory of Solids

Applied Physics 298r. Interdisciplinary Chemistry, Engineering and Physics: Seminar

Engineering Sciences 274. Quantum Technology I



Engineering Sciences 275. Nanophotonics
MCB 212. Topics in Biophysics

Graduate Courses of Reading and Research

Courses of preliminary reading or experimental research are designated by “a.” Thesis research are designated by “b” and these courses are to be used only when an instructor has agreed to supervise a student’s research for the PhD. 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 301a,301b. Experimental Atomic and Elementary Particle Physics**

Catalog Number: 1735,1736

Gerald Gabrielse 1768

***Physics 303a,303b. Sensory and Behavioral Neuroscience**

Catalog Number: 1727,1792

Aravinthan D. T. Samuel 4625 (on leave fall term)

***Physics 305a,305b. Experimental High Energy Physics**

Catalog Number: 7929,0855

John Huth 3506

***Physics 307a,307b. Atomic/Bio-physics, Quantum Optics**

Catalog Number: 7534,3277

Lene V. Hau 2151

***Physics 309a,309b. Topics in Elementary Particle Theory**

Catalog Number: 4556,4561

Cumrun Vafa 2069 (on leave fall term)

***Physics 311a,311b. Experimental Atomic, Molecular, and Low-Energy Particle Physics**

Catalog Number: 6839,6838

John M. Doyle 3507 (on leave fall term)

***Physics 313a,313b. Experimental Condensed Matter Physics**

Catalog Number: 7154,6363

Amir Yacoby 5596 (on leave 2010-11)

***Physics 315a,315b. Topics in Theoretical Atomic, Molecular, and Condensed Matter Physics**

Catalog Number: 7387,8871

Eric J. Heller 1074



***Physics 317a,317b. Topics in Biophysics**

Catalog Number: 8345,0990

Xiaowei Zhuang 3991

***Physics 319a,319b. Topics in Experimental High Energy Physics**

Catalog Number: 4520,4521

Melissa Franklin 2500

***Physics 321a,321b. Experimental Soft Condensed Matter Physics**

Catalog Number: 9963,7098

David A. Weitz 2497

***Physics 323a,323b. Nanostructures and Mesoscopic Physics**

Catalog Number: 3629,9079

Charles M. Marcus 2890

***Physics 327a,327b. Topics in Condensed Matter Physics**

Catalog Number: 5969,6524

David R. Nelson 5066

***Physics 329a,329b. Condensed Matter and Statistical Theory**

Catalog Number: 6198,6373

Bertrand I. Halperin 4755 (on leave fall term)

***Physics 331a,331b. Topics in String Theory**

Catalog Number: 1624,9280

Xi Yin 6162

***Physics 333a,333b. Experimental Atomic Physics**

Catalog Number: 2902,2904

Mara Prentiss 2741

***Physics 335a,335b. Topics in the History and Philosophy of Physics**

Catalog Number: 6697,4276

Gerald Holton 1883

***Physics 337a,337b. Topics in Experimental High Energy Physics**

Catalog Number: 1809,6368

Masahiro Morii 3798

***Physics 339a,339b. Condensed Matter and Atomic Physics**

Catalog Number: 5096,6843

Subir Sachdev 5252



***Physics 341a,341b. Topics in Experimental Atomic and Condensed Matter Physics**

Catalog Number: 1990,6602

Markus Greiner 5344

***Physics 343a,343b. Observational Cosmology and Experimental Gravitation**

Catalog Number: 4253,6881

Christopher Stubbs 4856 (on leave spring term)

***Physics 345a,345b. Experimental Gravitation: Radio and Radar Astronomy**

Catalog Number: 5067,5072

Irwin I. Shapiro 7660

***Physics 347a,347b. Topics in Quantum Optics**

Catalog Number: 8010,1627

Mikhail D. Lukin 3990 (on leave spring term)

***Physics 349a,349b. Topics in Theoretical Particle Physics**

Catalog Number: 4124,9866

Matthew D. Schwartz 6194

***Physics 351a,351b. Experimental Soft Condensed Matter and Materials Physics**

Catalog Number: 6533,5661

Vinothan N. Manoharan 5251

***Physics 353a,353b. Topics in Statistical Physics and Quantitative Molecular Biology**

Catalog Number: 66502,81609

Erel Levine 6304

***Physics 355a,355b. Theory of Elementary Particles**

Catalog Number: 1213,7654

Roy J. Glauber 2113 (on leave spring term)

***Physics 357a,357b. Experimental Condensed Matter Physics**

Catalog Number: 4430,5227

Robert M. Westervelt 6148 (on leave fall term)

***Physics 359a,359b. Topics in Condensed Matter Physics**

Catalog Number: 8238,7560

Eugene A. Demler 3847

***Physics 361a,361b. Topics in Experimental High Energy Physics**

Catalog Number: 21181,51395

Joao Pedro Guimaraes da Costa 5698 (on leave 2010-11)



***Physics 363a,363b. Topics in Condensed Matter Theory**

Catalog Number: 2957,2958

Efthimios Kaxiras 3050

***Physics 365a,365b. Topics in Mathematical Physics**

Catalog Number: 5170,1567

Arthur M. Jaffe 2095

***Physics 367a,367b. Experimental Astrophysics**

Catalog Number: 1075,1274

Paul Horowitz 3537 (on leave 2010-11)

***Physics 369a,369b. Experimental Condensed Matter: Synchrotron Radiation Studies**

Catalog Number: 1538,1539

Peter S. Pershan 1105

***Physics 371a,371b. Topics in Experimental High Energy Physics**

Catalog Number: 2519,6461

Gary J. Feldman 2599

***Physics 373a,373b. Historical and Philosophical Approaches to Modern and Contemporary Physics**

Catalog Number: 6140,6143

Peter L. Galison 3239

***Physics 375a,375b. Topics in Theoretical High Energy Physics**

Catalog Number: 9829,0132

Frederik Denef 6000 (on leave spring term)

***Physics 377a,377b. Theoretical High Energy Physics**

Catalog Number: 1436,2007

Tai T. Wu 1051

***Physics 379a,379b. Topics in Elementary Particle Research and String Theory**

Catalog Number: 7523,7524

Andrew Strominger 3700

***Physics 381a,381b. Experimental Condensed Matter Physics**

Catalog Number: 1281,2355

Jennifer E. Hoffman 4888

***Physics 383a,383b. Low Temperature Physics of Quantum Fluids and Solids; Ultra High Pressure Physics**

Catalog Number: 3851,4395

Isaac F. Silvera 7468 (on leave spring term)



***Physics 385a,385b. Topics in Biophysics**

Catalog Number: 5901,5902

Howard C. Berg 1377

***Physics 387a,387b. Applied Photonics**

Catalog Number: 5772,5774

Eric Mazur 7952

***Physics 389a,389b. Topics in Field Theory: The Standard Model and Beyond**

Catalog Number: 4393,2571

Lisa Randall 4255

***Physics 391a,391b. Experimental Atomic Physics, Biophysics, and Soft Matter Physics**

Catalog Number: 1006,2753

Ronald L. Walsworth 2263

***Physics 393a,393b. Topics in Elementary Particle Theory**

Catalog Number: 6051,6218

Howard Georgi 4754

***Physics 397a,397b. 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

Torben Iversen, Harold Hitchings Burbank Professor of Political Economy (*Chair*)

Christopher N. Avery, Roy E. Larsen Professor of Public Policy and Management at the John F. Kennedy School of Government (*Kennedy School*)

Robert H. Bates, Eaton Professor of the Science of Government and Professor of African and African American Studies

Daniel P. Carpenter, Allie S. Freed Professor of Government

Suzanne J. Cooper, Senior Lecturer in Public Policy at the John F. Kennedy School of Government (*Kennedy School*)

Jeffrey Frieden, Stanfield Professor of International Peace



Edward L. Glaeser, Fred and Eleanor Glimp Professor of Economics
Elhanan Helpman, Galen L. Stone Professor of International Trade
Michael J. Hiscox, Clarence Dillon Professor of International Affairs
William W. Hogan, Raymond Plank Professor of Global Energy Policy (*Kennedy School*)
Daniel Andres Hojman, Associate Professor of Public Policy (*Kennedy School*)
Sendhil Mullainathan, Professor of Economics
Joseph P. Newhouse, John D. Macarthur Professor of Health Policy and Management (*Kennedy School, Medical School, Public Health*)
Dwight H. Perkins, Harold Hitchings Burbank Professor of Political Economy, Emeritus
J. Mark Ramseyer, Professor of Japanese Legal Studies (*Law School*)
James Robinson, David Florence Professor of Government
Dani Rodrik, Rafiq Hariri Professor of International Political Economy at the John F Kennedy School Government (*Kennedy School*)
Kenneth A. Shepsle, George D. Markham Professor of Government
Beth A. Simmons, Clarence Dillon Professor of International Affairs
James M. Snyder, Professor of Government
Robert N. Stavins, Albert Pratt Professor of Business and Government at the John F Kennedy School of Government (*Kennedy School*)
Richard J. Zeckhauser, Frank Plumpton Ramsey Professor of Political Economy in the John F Kennedy School of Government (*Kennedy School*)

The Doctoral Program in Political Economy and Government (PEG) is intended for scholars interested in academic or policy making careers requiring advanced knowledge of both Economics and Political Science. It is appropriate for students whose academic interests are not fully served by doctoral studies in Economics or Political Science alone. In Political Economy and Government, candidates have intellectual interests in the impact of politics on economic processes and outcomes, and the reciprocal influence of economic conditions on political life. This interest is often applied to such diverse areas as international political economy, political development, political and economic institutions, institutional transition and reform, environmental resource policies, and social policy.

Candidates for the PEG degree are typically in residence for two years before undertaking the oral examination. Satisfactory completion of the oral examination is a prerequisite for writing a dissertation. Continuation of candidacy is contingent upon suitable progress and achievement during each academic year.

Applicants to this program must present their academic credentials, career plans, and a tentative outline of their proposed program research. All applicants must specify whether they are applying to the Economics track or the Political Science track. For a full description of the track requirements, visit the PEG website at www.hks.harvard.edu. Recent scores from the aptitude portion of the Graduate Record Examination (GRE) are required, as are transcripts for all prior study and three letters of recommendation. Application forms and leaflets describing field and other requirements are available at the Graduate School of Arts and Sciences. For further information on faculty, programs, and courses in the John F. Kennedy School of Government, see the school's catalog and courses of instruction.



For more information about the doctoral program, visit the program website at www.hks.harvard.edu/degrees/phd/peg.

Psychology

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Department of Psychology

Susan E. Carey, Henry A. Morss, Jr. and Elisabeth W. Morss Professor of Psychology (*Chair*)
George Angelo Alvarez, Assistant Professor of Psychology
Nicholas Peter Aramovich, Lecturer on Psychology
Mahzarin R. Banaji, Richard Clarke Cabot Professor of Social Ethics (*Director of Undergraduate Studies*)
Randy L. Buckner, Professor of Psychology and of Neuroscience
Alfonso Caramazza, Daniel and Amy Starch Professor of Psychology (*on leave spring term*)
Carlo Cerruti, College Fellow in Psychology
Daniel T. Gilbert, Professor of Psychology (*on leave 2010-11*)
Joshua D. Greene, Assistant Professor of Psychology
J. Richard Hackman, Edgar Pierce Professor of Social and Organizational Psychology (*Director of Graduate Studies*)
Marc D. Hauser, Professor of Psychology (*on leave 2010-11*)
Andrea Heberlein, Lecturer on Psychology
Christine Hooker, Assistant Professor of Psychology
Jill M. Hooley, Professor of Psychology
Stephen M. Kosslyn, John Lindsley Professor of Psychology in Memory of William James, Dean of Social Science
Ellen J. Langer, Professor of Psychology
Richard J. McNally, Professor of Psychology (*on leave fall term*)
Wendy Mendes, John L. Loeb Associate Professor of the Social Sciences
Jason P. Mitchell, John L. Loeb Associate Professor of the Social Sciences
Samuel Taylor Moulton, College Fellow in the Department of Psychology
Ken Nakayama, Edgar Pierce Professor of Psychology
Matthew K. Nock, Professor of Psychology
Steven Pinker, Johnstone Family Professor of Psychology, Harvard College Professor
Daniel L. Schacter, William R. Kenan, Jr. Professor of Psychology
James Sidanius, Professor of Psychology and of African and African American Studies
Craig Elliot Smith, College Fellow in Psychology
Jesse Snedeker, Professor of Psychology



Elizabeth S. Spelke, Marshall L. Berkman Professor of Psychology
Manuel S. Sprung, Lecturer on Psychology
Piercarlo Valdesolo, College Fellow in Psychology
Felix Warneken, Assistant Professor of Psychology
Daniel M. Wegner, John Lindsley Professor of Psychology in Memory of William James
John R. Weisz, Professor of Psychology (*on leave spring term*)
Yaoda Xu, Assistant Professor of Psychology (*on leave spring term*)

Other Faculty Offering Instruction in the Department of Psychology

Max H. Bazerman, Jesse Isidor Straus Professor of Business Administration (*Business School*)
Kurt W. Fischer, Charles Bigelow Professor of Education (*Education School*)
Paul Lansley Harris, Victor S. Thomas Professorship in Education (*Education School*)
Scott E. Lukas, Professor of Psychiatry (*Medical School*)
William P. Milberg, Professor of Psychology in the Department of Psychiatry (*Medical School*)

For a list of other courses which automatically count for undergraduate concentration credit, please see the note under the cross-listed courses for Undergraduates and Graduates.

Primarily for Undergraduates

Psychology 13. Cognitive Psychology

Catalog Number: 8706 Enrollment: This course meets Tier 2 requirements and should be taken before courses at the 1000 level or higher.

Jesse Snedeker

Half course (fall term). M., W., 1–2:30. EXAM GROUP: 6, 7

An introduction to the study of human cognition. Topics include perception, attention, memory, categorization, language, and consciousness. We will consider how human thought processes are organized, how they affect our everyday behavior, and the biological mechanisms that underlie them.

Note: This course, when taken for a letter grade, meets the Core area requirement for Science B. This course meets the Psychology Tier 2 requirement.

Prerequisite: Science of Living Systems 20 or its predecessors, or permission of instructor.

Psychology 14 (formerly Psychology 1301). Cognitive Neuroscience

Catalog Number: 5607

Daniel L. Schacter and George Angelo Alvarez

Half course (spring term). Tu., Th., 10-11:30 and a one-hour section to be arranged. EXAM GROUP: 12, 13

How do our brains give rise to our minds? Specifically, how are mental processes related to neural activity? This course will explore these questions, as well as the methods by which cognitive neuroscience seeks to answer them. We will focus on processes within perception, attention, memory, language, emotion, social cognition, and development, and methods including neuroimaging, neuropsychology, and electrophysiology.

Note: This course meets Tier 2 requirements and should be taken before courses at the 1000 level



or higher.

Prerequisite: Science of Living Systems 20 or its predecessors.

Psychology 15. Social Psychology

Catalog Number: 4760

Joshua D. Greene

Half course (spring term). M., W. 1-2:30 and a one-hour section to be arranged. EXAM

GROUP: 6, 7

An introduction to social psychological research and theory regarding everyday behavior. Topics include: social influence, attitude change, and obedience to authority; stereotyping and prejudice; social cognition; social interaction and group processes; interpersonal attraction; prosocial behavior; and everyday human judgment.

Note: This course, when taken for a letter grade, meets the General Education requirement for Science of Living Systems or the Core area requirement for Science B. This course meets Tier 2 requirements and should be taken before courses at the 1000 level or higher.

Prerequisite: Science of Living Systems 20 or its predecessors.

***Psychology 16. Developmental Psychology: Psychology of Early Childhood**

Catalog Number: 1483

Paul Lansley Harris (Education School)

Half course (fall term). Tu., Th., 10–11:30 and a one-hour section to be arranged. EXAM

GROUP: 12, 13

An introduction to theories and findings in the psychology of early childhood, roughly the period from 18 months to 6 years. The course will cover attachment; pretense and imagination; theory of mind/autism; moral development; memory development; emotion and understanding emotion; vocabulary growth; cross-cultural variation; brain development; learning through dialogue; and children's religious concepts.

Note: This course, when taken for a letter grade, meets the Core area requirement for Science B. Offered jointly with the Graduate School of Education as H-250. This course meets Tier 2 requirements and should be taken before courses at the 1000 level or higher.

Prerequisite: Science of Living Systems 20 or its predecessors.

Psychology 18. Abnormal Psychology

Catalog Number: 8560

Christine Hooker

Half course (fall term). Tu., Th., 11:30-1, and a weekly section to be arranged. EXAM GROUP: 13, 14

Introduction to the study of psychopathology. Focuses on theoretical models of abnormal behavior as they relate to the definition, etiology, and treatment of mental disorders. Diagnostic classification, behavioral, and biological features of the major syndromes of psychopathology emphasized.

Note: This course, when taken for a letter grade, meets the Core area requirement for Science B. This course meets Tier 2 requirements and should be taken before courses at the 1000 level or higher.

Prerequisite: Science of Living Systems 20 or its predecessors.



***Psychology 910r. Supervised Research**

Catalog Number: 1472

Mahzarin R. Banaji and members of the Department

Half course (fall term; repeated spring term). Hours to be arranged.

Independent empirical research (laboratory or field) conducted under the supervision of a departmental faculty member. Research report or equivalent paper required. May be taken up to three times for College credit; limits on research courses for concentration credit apply.

Application found at <http://www.wjh.harvard.edu/psych/ug/deadlines/index.html>.

Note: Application required for admission; due to the Psychology Undergraduate Office the day before Study Cards are due.

***Psychology 950. Psychology Live**

Catalog Number: 5195 Enrollment: Limited to 25.

Jamil O. Zaki and members of the Department

Half course (fall term). W., 1:30–4.

Faculty will each lecture about their main area of research: its history, methods, and discoveries, focusing on contemporary research topics including perception, memory, cognitive development, animal cognition, social cognition, moral decision-making, consciousness, language, and psychopathology. Includes a view of methods to study the mind, brain and behavior involving neuroscientific techniques, evolutionary psychology, web-based experimentation, traditional laboratory experiments, and field studies. Emphasis is primarily human, as well as nonhuman primates.

Prerequisite: Science of Living System 20, Psychology 1, or Science B-62.

***Psychology 971. Contemporary Issues in Psychology: Intensive Cross-level Analyses**

Catalog Number: 3498

Mahzarin R. Banaji and members of the Department

Half course (fall term; repeated spring term). Hours to be arranged.

Examines selected issues and phenomena in contemporary psychological research. Special attention to examining topics from a variety of perspectives, to reading primary sources in the field, and to developing thinking, writing, research, and discussion skills. This tutorial, or Psychology 975, is required of concentrators upon entering the concentration, normally in the sophomore year. Letter graded.

Note: This course is taught entirely in sections, so a required first meeting of this course will be held the first day of classes; see Registrar's first meeting list for time and location. Students may take this course before formally declaring Psychology as their concentration.

Prerequisite: Science of Living Systems 20 (or equivalent) or concurrent enrollment.

***Psychology 975. Contemporary Issues in Psychology: Intensive Cross-level Analyses for Social and Cognitive Neuroscience**

Catalog Number: 9063

Mahzarin R. Banaji and members of the Department

Half course (fall term; repeated spring term). Hours to be arranged.

Examines selected issues of relevance to social and cognitive neuroscience addressed in contemporary psychological research, and is normally required for students in the Social and Cognitive Neuroscience track of Psychology. Special attention to examining topics from a



variety of perspectives, to reading primary sources in the field, and to developing thinking, writing, research, and discussion skills. This tutorial, or Psychology 971, is required of concentrators upon entering the concentration, normally in the sophomore year. Letter-graded. *Note:* This course is taught entirely in sections, so a required first meeting of this course will be held the first day of classes; see Registrar's first meeting list for time and location. Students may take this course before formally declaring Psychology as their concentration. *Prerequisite:* Science of Living Systems 20 (or equivalent) or concurrent enrollment.

***Psychology 980b. Developmental Disabilities - (New Course)**

Catalog Number: 33231 Enrollment: Limited to 16.

Mahzarin R. Banaji and members of the Department

Half course (fall term). W., 7–9 p.m. EXAM GROUP: 9

Introduction to developmental disorders through theory, research, and practice. In this course we will focus on the most frequently identified developmental difficulties in areas such as language, math, and executive functions. The approach will be integrative by considering each topic through the lens of cognitive neuroscience, clinical presentation, and theoretical frameworks.

Note: Typically meant for Junior and Senior Psychology concentrators.

Prerequisite: Science of Living Systems 20 or its predecessors and one Tier 2 course.

[*Psychology 980d. Cooperation and Altruism]

Catalog Number: 75281 Enrollment: Limited to 16. Typically meant for Junior and Senior Psychology concentrators.

Mahzarin R. Banaji and members of the Department

Half course (fall term). Hours to be arranged.

Note: Expected to be given in 2011–12.

Prerequisite: Science of Living Systems 20 or its predecessors, and one Tier 2 course.

***Psychology 980e. Psychology of Relationships: Seminar**

Catalog Number: 23759 Enrollment: Limited to 16.

Mahzarin R. Banaji and members of the Department

Half course (spring term). W., 6–8 p.m.

We will explore the psychological nature of one-on-one relationships, including key drivers, dynamics, and outcomes ranging from satisfaction to dissolution. Our focus will be on relationships with romantic partners, but we will also address those with friends, family members, and work colleagues.

Note: Typically meant for Junior and Senior Psychology concentrators.

Prerequisite: Science of Living Systems 20 or its predecessors, and one Tier 2 course.

***Psychology 980g. Developmental Neuroscience - (New Course)**

Catalog Number: 50838 Enrollment: Limited to 16.

Mahzarin R. Banaji and members of the Department.

Half course (spring term). W., 1–3.

Theories and findings in the psychology and neuropsychology of infancy, childhood and adolescence, with reference to lifespan development. Topics addressed include language, executive function, moral reasoning and memory. Studies of abnormal development, including dyslexia and ADHD, will illuminate the nature of brain development across dispersed neural



networks. Implications of modern understanding of neurocognitive development on policy and education will be considered.

Note: Typically meant for Junior and Senior Psychology concentrators.

Prerequisite: Science of Living Systems 20 or its predecessors, and one Tier 2 course.

***Psychology 980i. Psychology of Education and Pedagogy - (New Course)**

Catalog Number: 35731 Enrollment: Limited to 16.

Mahzarin R. Banaji and members of the Department

Half course (spring term). Tu., 1–3.

In this seminar we will discuss modern psychological research into learning and teaching and how such evidence can inform pedagogy, educational policy, and our understanding of the mind.

Note: Typically meant for Junior and Senior Psychology concentrators.

Prerequisite: Science of Living Systems 20 or its predecessors, and one Tier 2 course.

***Psychology 980j. Psychology of Religion - (New Course)**

Catalog Number: 48338 Enrollment: Limited to 16.

Mahzarin R. Banaji and members of the Department

Half course (fall term). W., 4–6.

This seminar will explore scientific theory and research on the psychology of religious beliefs and practices, integrating cognitive, developmental, evolutionary, neuroscientific and social levels of analysis. Topics addressed include dualism, afterlives, agency perception & anthropomorphism, creationism & teleofunctional reasoning, magic & taboos, ritualistic behavior & prayer, cooperation, and debates concerning religion as adaptation vs. by-product.

Note: Typically meant for Junior and Senior Psychology concentrators. First meeting will be on September 8, 2010.

Prerequisite: Science of Living Systems 20 or its predecessors, and one Tier 2.

***Psychology 980k. Growing Up and Growing Old: Cognitive Changes in Childhood and Aging - (New Course)**

Catalog Number: 76843 Enrollment: Limited to 16.

Mahzarin R. Banaji and Members of the Department

Half course (spring term). M., 4–6.

This seminar will focus on the profound cognitive changes of early childhood and old age. We will be especially interested in what such changes tell us about how the adult mind -- perched between childhood and old age -- is organized. Topics include: theories of development and theories of aging, changes in the neural substrate; the rise and fall of executive functions; conceptual gain and conceptual loss; expertise and wisdom; healthy aging and dementias.

Prerequisite: Science of Living Systems 20 or its predecessors, and one Tier 2 course.

***Psychology 985. Junior Tutorial: Honors Thesis Preparation**

Catalog Number: 2343

Mahzarin R. Banaji and members of the Department

Half course (fall term; repeated spring term). Fall: Hours to be arranged; Spring: W., at 5.

Supervised reading and research with a faculty supervisor normally resulting in a thesis prospectus. Required, supplemental group meetings to discuss topic and supervisor selection, study methodology, prospectus writing, and the prospectus meeting. Admission to course via



application (available at <http://www.wjh.harvard.edu/psych/ug/deadlines/index.html>). Graded SAT/UNS. Full prospectus or term paper required.

Note: Normally limited to junior psychology concentrators.

Prerequisite: Psychology 1901 or concurrent enrollment.

Senior Tutorial

***Psychology 990. Senior Tutorial: Honors Thesis in Psychology**

Catalog Number: 3553

Mahzarin R. Banaji and members of the Department

Full course. Fall: Th., at 4.

Individual supervised thesis research supplemented with occasional group meetings to discuss major aspects of the thesis process (e.g., organizing, conducting, and presenting research).

Graded Sat/Unsat. Prospectus meeting required for fall term credit, as well as a paper for students who divide course at mid-year. Submission of thesis required for full year credit.

Note: Required of and limited to senior psychology concentrators in the general psychology Honors-eligible thesis track.

Prerequisite: Approved thesis application and Psychology 1901.

***Psychology 992. Senior Tutorial: Honors Thesis (Mind/Brain/Behavior)**

Catalog Number: 4990

Mahzarin R. Banaji and members of the Department

Full course. Fall: Th., at 4.

Individual supervised thesis research supplemented with occasional group meetings to discuss major aspects of the thesis process (e.g., organizing, conducting, and presenting research).

Graded Sat/Unsat. Prospectus meeting required for fall term credit, as well as a paper for students who divide course at mid-year. Submission of thesis required for full year credit.

Note: Required of and limited to senior psychology concentrators in the Social and Cognitive Neuroscience thesis track, who will take this course in lieu of Psychology 990.

Prerequisite: Approved thesis application and Psychology 1901.

***Psychology 993. Senior Tutorial: Honors Thesis (Social and Cognitive Neuroscience)**

Catalog Number: 5567

Mahzarin R. Banaji and members of the Department.

Full course. Fall: Th., at 4.

Individual supervised research supplemented with occasional group meetings to discuss major aspects of the thesis process (e.g., organizing, conducting, and presenting research). Graded Sat/Unsat. Prospectus meeting required for fall term credit, as well as a paper for students who divide course at mid-year. Submission of thesis required for full year credit.

Note: Required of and limited to senior honors psychology concentrators in the Social and Cognitive Neuroscience track, who will take this course in lieu of Psychology 990.

Prerequisite: Approved thesis application and Psychology 1901.

Cross-listed Courses



[Culture and Belief 34 (formerly Historical Study A-87). Madness and Medicine: Themes in the History of Psychiatry]

[Life Sciences 1a. An Integrated Introduction to the Life Sciences: Chemistry, Molecular Biology, and Cell Biology](#)

[Life Sciences 1b. An Integrated Introduction to the Life Sciences: Genetics, Genomics, and Evolution](#)

[MCB 80. Neurobiology of Behavior](#)

[*Mind, Brain, and Behavior 92 \(formerly Psychology 987d\). A Systems Neuroscience Approach to Conscious Perceptual Experience](#)

[\[*Mind, Brain, and Behavior 93 \(formerly Psychology 987f\). The Biology of Conscious States: Waking, Sleeping, and Dreaming\]](#)

[*Mind, Brain, and Behavior 94 \(formerly Psychology 987g\). Theories of Violence](#)

[*Mind, Brain, and Behavior 95 \(formerly Psychology 987h\). Addiction, Choice, and Motivation](#)

[*Mind, Brain, and Behavior 96 \(formerly Psychology 987i\). The Science of Happiness](#)

[OEB 53 \(formerly Biological Sciences 53\). Evolutionary Biology](#)

[Science of Living Systems 15 \(formerly Science B-60\). Origins of Knowledge](#)

[Science of Living Systems 20. Psychological Science](#)

For Undergraduates and Graduates

[Psychology 1005. Health Psychology - \(New Course\)](#)

Catalog Number: 62039

Ellen J. Langer

Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

This course will examine psychological and physical health and the relationship between them. Research from mindfulness theory, mind/body studies, and positive psychology will be discussed along with research on stress, medical decision-making, behavioral medicine and social psychological theories that are pertinent to health.

Prerequisite: SLS-20 or equivalent and any Tier 2 course.

[Psychology 1006. Psychology of Morality - \(New Course\)](#)

Catalog Number: 98864

Piercarlo Valdesolo

Half course (fall term). Tu., Th., 1–2:30.

This class will survey the recent history and evolution of research in moral psychology, emphasizing the function of moral thought in the regulation of intra-psychic processes and the shaping of social judgment and interaction. Students will be expected to engage in interactive discussion as well as participate in experimental research.

Prerequisite: Science of Living Systems 20 or its predecessors and Psychology 13 or Psychology 15.

[*Psychology 1051. MATLAB: Introduction to Programming for Behavioral Research - \(New Course\)](#)

Catalog Number: 25165 Enrollment: Limited to 10.

George Angelo Alvarez



Half course (fall term). Tu., 1:30–4. EXAM GROUP: 15, 16, 17

This course will introduce students to the basics of the MATLAB user interface and programming language, for the purpose of using MATLAB to conduct behavioral research. In the first half of the course, you will learn about MATLAB syntax, general programming concepts such as functions, loops, and conditional statements, and how to analyze and visualize data in MATLAB. In the second half of the course, you will learn to program psychology experiments with the Psychophysics toolbox (a set of MATLAB functions), including displaying stimuli (visual and auditory), and collecting responses from participants.

Note: All students are required to bring a laptop computer to class. Open to graduate and undergraduate students with permission of instructor.

***Psychology 1052. The application of fMRI in cognitive neuroscience research - (New Course)**

Catalog Number: 91794 Enrollment: Limited to 10.

Yaoda Xu

Half course (fall term). M., 10-12. EXAM GROUP: 3, 4

Functional magnetic resonance imaging (fMRI) is one of the most widely used methods in cognitive neuroscience research. In this course, students will learn the basics of fMRI research and gain hands-on experience in conducting fMRI experiments. In the first part of the course, students will have an overview of the fMRI methods, including how fMRI works, basic designs of fMRI experiments, fMRI data collection, analysis and interpretation, and current applications of fMRI in cognitive neuroscience research. In the second part of the course, students will design and conduct fMRI experiments and analyze fMRI data.

Note: Open to graduate students and advanced undergraduates with permission of instructor.

Psychology 1201. Your Brain on Drugs: Psychopharmacology

Catalog Number: 6717

Scott E. Lukas (Medical School)

Half course (fall term). M., W., 1–2:30, plus a one-hour section to be arranged.

An introduction to how drugs affect mood, sensation, consciousness, and other psychological and behavioral functions in both healthy and disease states. Introduces concepts in neuroscience and pharmacology to understand how drugs are used to treat drug abuse, psychiatric disorders and why individuals use recreational drugs. Covers all CNS drugs, including antidepressants, antipsychotics, alcohol, and both licit and illicit drugs of abuse. Debates controversial topics such as research with psychiatric populations, diagnosing ADHD, teenage suicide, marijuana legalization, and needle exchange programs.

Note: This course, when taken for a letter grade, meets the Core area requirement for Science B.

Prerequisite: Science of Living Systems 20 or its predecessors and either Psychology 13, Psychology 18, or MCB 80.

[*Psychology 1304. Cognitive Neuropsychology]

Catalog Number: 2419

Alfonso Caramazza

Half course (fall term). Hours to be arranged.

Examines the patterns of perceptual, motor, cognitive, and linguistic impairments resulting from brain damage. The focus is on the implications of the various types of neuropsychological



deficits (such as visual neglect, dyslexia, and aphasia) for theories of the mind and the functional organization of the brain.

Note: Expected to be given in 2011–12.

Prerequisite: Science of Living Systems 20 or its predecessors and Psychology 13 or MCB 80.

***Psychology 1307. Brain Genomics: Seminar**

Catalog Number: 63133 Enrollment: Limited to 20.

Randy L. Buckner

Half course (spring term). M., 4–6. EXAM GROUP: 9

Genetics provides a powerful approach for exploring human behavioral variation and learning how dysfunction in neural circuits influences cognition. This course will cover the basics of genetic inheritance and genomic sequencing to understand brain function. Topics include autistic disorders, schizophrenia, and normal cognitive variation. The goals of the class will be (1) to debate the potential of bridging genomics and human neuroscience, and (2) to survey recent successes in brain genomics.

Prerequisite: Life Science 1A; MCB 80 or Science of Living Systems 20 desirable.

***Psychology 1352. Foundations of Cognitive Neuroscience Research**

Catalog Number: 9399 Enrollment: Limited to 12.

Randy L. Buckner

Half course (fall term). Hours to be arranged.

Intended for undergraduates or those with limited background in cognitive neuroscience. Students will attend and participate in laboratory research and in a seminar that includes discussion of active scientific projects, recent important journal articles, and didactic lecture on technical aspects of methods central to cognitive neuroscience research. Readings will be assigned that survey basic principles of system neuroscience, cognitive science, and methods including functional MRI, MEG, and single unit physiology.

Note: Limited to students involved in research.

Prerequisite: Science of Living Systems 20 or its predecessors or MCB 80, or permission of instructor. For graduate students, permission of instructor.

***Psychology 1353. Music and Language - (New Course)**

Catalog Number: 24325 Enrollment: Limited to 30.

Lloyd Robert Slevc

Half course (fall term). M., W., 4–5:30.

This seminar will explore the idea that there are fundamental similarities in the processing of music and language, with an emphasis on experimental research. Topics will include commonalities and differences in sound, structure, rhythm, meaning, and evolution.

Prerequisite: Science of Living Systems 20 or its predecessors plus any Tier 2 course.

***Psychology 1357. Puzzles of the Mind: Humans, Animals, Robots: Seminar**

Catalog Number: 87888 Enrollment: Limited to 25.

Güven Güzeldere

Half course (spring term). Tu., 3–5.

An interdisciplinary comparative study of human, animal, and robot minds. Particular emphasis on philosophical questions that frame the problems, and recent work in psychology, cognitive



science, and neuroscience that attempt to tackle them empirically. Relation between consciousness and cognition, language and thought, conscious versus unconscious information processing, Manifestations of mental capacities in different underlying substrates: the human brain, nervous systems of non-human animals, and silicon-based computational systems.

Additional readings from cognitive ethology and artificial intelligence.

Prerequisite: Science of Living Systems 20 or its predecessors and one from Psychology 13, 15, 16, or 18, or Molecular and Cellular Biology 80, or coursework in philosophy.

[Psychology 1430. Human Memory and Amnesia]

Catalog Number: 8922

Daniel L. Schacter

Half course (spring term). Hours to be arranged.

Surveys current data and theory concerning human memory and amnesia from cognitive, neuroimaging, and neuropsychological perspectives. Topics considered include short-term memory, encoding and retrieval processes, forgetting, memory distortion, implicit memory, drug effects on memory, amnesic syndromes, and aging memory.

Note: Expected to be given in 2012–13.

Prerequisite: Science of Living Systems 20 or its predecessors plus either Psychology 13, 15, 16, 18, Science B 29 or MCB 80.

***Psychology 1452. The Human Face - (New Course)**

Catalog Number: 11513 Enrollment: Limited to 16.

Ken Nakayama

Half course (fall term). M., 1–3:30.

Face recognition and face processing have strong biological substrates and have wide application to many sub-fields of psychology. Among the topics to be examined are face recognition, facial emotion, and facial attractiveness.

Prerequisite: Science of Living Systems 20 or its predecessors plus any Tier 2 course.

***Psychology 1501. Social Psychology of Organizations**

Catalog Number: 0823 Enrollment: Limited to 45.

J. Richard Hackman

Half course (fall term). Tu., Th., 8:30–10. 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: Science of Living Systems 20 and at least one additional course with substantial psychological content, or special permission of the instructor.

[Psychology 1505. Social Cognition]

Catalog Number: 3334

Ellen J. Langer

Half course (spring term). Hours to be arranged.

The cognitive underpinnings of numerous social psychological phenomena, including traditional topics in social psychology such as attribution making, impression formation, stereotyping,



prejudice, self knowledge, affect, judgment and decision making, nonverbal communication in theory and application will be explored. Special attention will be given to these phenomena through the lens of mindfulness and mindlessness.

Note: Expected to be given in 2011–12.

Prerequisite: Science of Living Systems 20 or its predecessors and either Psychology 13 or Psychology 15.

Psychology 1507. Group Decision Making - (New Course)

Catalog Number: 83757

Nicholas Peter Aramovich

Half course (spring term). Tu., Th., 4–5:30; W., at 2. EXAM GROUP: 18

This course seeks to understand collective decision making and problem solving by small groups. This includes understanding the interpersonal processes and relationships that occur between group members as they work together (e.g., conformity, minority influence, information sharing, and leadership), the effect of group participation on their members (e.g., learning, satisfaction, commitment) and methods for evaluating the quality and effectiveness of group performance. Past and present empirical research and theory will be examined.

Prerequisite: Science of Living Systems 20 or its predecessors and any Tier 2 course.

***Psychology 1510. Social Function of Emotion - (New Course)**

Catalog Number: 62449

Piercarlo Valdesolo

Half course (spring term). Tu., Th., 1–2:30.

Rationalist models of decision making have typically relegated the experience of emotions to, at best, an obstacle to be overcome in social judgment, and at worst a necessarily biasing and corrupting force. By adopting a functionalist perspective, this course will seek to identify the conditions under which emotions can actually promote adaptive social functioning across varied domains such as close relationships, negotiation, intergroup relations and risk-taking.

Prerequisite: Science of Living Systems 20 or its predecessors and any Tier 2 course.

***Psychology 1551. Mind Perception**

Catalog Number: 2481 Enrollment: Limited to 20.

Daniel M. Wegner and Jeffrey Paul Ebert

Half course (spring term). M., 3–5. EXAM GROUP: 8, 9

Examines processes involved in perceiving the minds of others, and how these processes are modified for exceptional cases such as the minds of animals, robots, children, groups, enemies, victims, supernatural agents, and the dead.

Prerequisite: Science of Living Systems 20 or its predecessors plus any one of Psychology 13, 15, 16, 18, or MCB 80

***Psychology 1556r. Research Seminar in Implicit Social Cognition - (New Course)**

Catalog Number: 78884

Mahzarin R. Banaji

Half course (fall term; repeated spring term). Hours to be arranged.

An introduction to research on implicit social cognition, with special focus on attitudes, beliefs, and identity and in some cases its applications to law, business, medicine, and government.



Students will be paired with individual researchers to work on ongoing projects that can turn into more independent projects. In addition to weekly work in the laboratory, students are expected to attend biweekly discussion groups focusing on current issues and directions in the laboratory as a whole.

Psychology 1604. Social Development

Catalog Number: 92302

Craig Elliot Smith

Half course (fall term). M., W., 2:30–4. EXAM GROUP: 7, 8

How do we develop as social beings from infancy to adulthood? What is social competence, and how can social development go awry? In exploring these and other questions, this course will take a developmental approach to topics that include: attachment; early-emerging social behavior; cooperation and competition; trust; theory of mind; social categorization; in/out-group dynamics; friendship; distinct forms of aggression and victimization; social and moral reasoning; and parental, peer, and cultural influences on social behavior.

Prerequisite: Science of Living Systems 20 or its predecessors plus either PSY 15 or PSY 16.

***Psychology 1607a. Cognitive Development, Education, and the Brain: Theory and Practice - (New Course)**

Catalog Number: 33358 Enrollment: Limited to 15.

Kurt W. Fischer (Education School)

Half course (fall term). M., W., 10–12. EXAM GROUP: 3, 4

Provides an integrative, interactive, and collaborative introduction to Mind, Brain, and Education. Students will draw upon knowledge from Cognitive Psychology, Biology, and Education to explore the theoretical foundations, methods, and applications of MBE. The course will connect diverse theoretical orientations including Piaget, Vygotsky, cognitive/affective science, neuroscience, dynamic skill theory, and universal design for learning. Guest lecturers will include leading scholars in the field. Students will complete a research or design project in the course.

Note: Offered jointly with the Graduate School of Education as HT 100A. Not open to students who have previously taken PSY 1607.

Prerequisite: Science of Living Systems 20 or its predecessors plus any Tier 2 course.

***Psychology 1607b. Cognitive Development, Education, and the Brain: Mind, Brain, and Education - (New Course)**

Catalog Number: 99987

Kurt W. Fischer (Education School)

Half course (spring term). M., W., 10–12. EXAM GROUP: 3, 4

Second part of a survey of the field of Mind, Brain and Education. Draws upon findings and theory from Cognitive Psychology, Biology, Neuroscience, and Education to explore: Language and Literacy, Numeracy, Conceptual Change, and Emotion and Motivation. Uses case materials, research findings, and practitioner expertise to construct questions, analyze policy, and build knowledge on issues in the field. Leading scholars in the field will participate. Students will complete a research or design project in the course.

Note: Not open to students who have previously taken PSY 1607. Offered jointly with the School of Education as HT-100b.



Prerequisite: Science of Living Systems 20 or its predecessors plus any Tier 2 course.
Enrollment in Psychology 1607a is recommended, but not required.

***Psychology 1651r (formerly *Psychology 1651). Language Development: Undergraduate Laboratory Course: Research Seminar**

Catalog Number: 6484

Jesse Snedeker 4118

Half course (fall term; repeated spring term). Hours to be arranged.

Students participate in research on language acquisition, language comprehension, and language production. Each student has responsibility for a project. Weekly meeting to discuss student projects and readings that are relevant to them. Ten hours a week commitment (includes lab meeting).

Note: For undergraduates seeking research experience, especially in preparation for undergraduate theses.

Prerequisite: Science of Living Systems 20 or its predecessors plus either Psychology 13 or Psychology 16.

***Psychology 1652r. Laboratory in Early Cognitive Development**

Catalog Number: 9913 Enrollment: Enrollment in course is limited (interested students should contact Prof. Spelke's lab manager, Koni Banerjee at kbanerj@wjh.harvard.edu).

Elizabeth S. Spelke

Half course (fall term; repeated spring term). W., at 3. EXAM GROUP: 8

An introduction to issues and methods in the study of cognition in human infants and young children. Students develop their own research projects, evaluate the ongoing and proposed projects of other students, and read and discuss papers on the development of perception and reasoning about objects, agents, space, and number.

Note: The first class meeting will be on February 9, 2011.

[*Psychology 1654. Topics in Cognitive Development: Seminar]

Catalog Number: 44735 Enrollment: Limited to 12.

Elizabeth S. Spelke

Half course (fall term). Hours to be arranged.

This seminar considers the origins and nature of human knowledge, by focusing on the development of knowledge in four broad domains: knowledge of objects and their mechanical relationships, knowledge of number and mathematics, knowledge of geometry and spatial layout, and knowledge of other people and their social relationships. Students will write short papers in response to weekly readings, as well as a longer paper at the end of the term.

Note: Expected to be given in 2011–12.

Prerequisite: Science of Living Systems 20 or its predecessors or its equivalent plus a Tier 2 course.

***Psychology 1655r. Conceptual Development: Undergraduate Laboratory Course**

Catalog Number: 1865

Susan E. Carey

Half course (fall term; repeated spring term). Hours to be arranged.

Students participate in research on conceptual development and language acquisition. Each



student has responsibility for a project. Weekly lab meeting to discuss student projects and readings relevant to them. Ten hours a week commitment (includes lab meeting).

Note: Open to undergraduates seeking research experience, especially in preparation for undergraduate theses.

[Psychology 1701. Personality Psychology]

Catalog Number: 4538

Instructor to be determined

Half course (spring term). Hours to be arranged.

Introduction to personality psychology. Reviews the major developments and debates in the area of personality. Covers a variety of approaches to understanding individual differences, including temperament, traits (factor analytic models), cognitive models, behavioral genetics, neurobiological processes, and person situation interaction.

Note: Expected to be given in 2011–12.

Prerequisite: Science of Living Systems 20 or its prerequisites, and any Tier 2 course.

***Psychology 1750 (formerly *Psychology 2751). Free Will, Responsibility, and Law**

Catalog Number: 7235 Enrollment: Limited to 15.

Joshua D. Greene

Half course (fall term). M., 2:30–4:30.

Examines the issues of free will and responsibility from philosophical, psychological, and neuroscientific perspectives, with special attention paid to potential legal applications.

Prerequisite: For undergraduates: Science of Living Systems 20 or its predecessors; plus Psychology 13, 15, 16, or 18.

Psychology 1801. Anxiety Disorders

Catalog Number: 4906

Richard J. McNally

Half course (spring term). M., W., 2:30–4. EXAM GROUP: 7, 8

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.

Prerequisite: Science of Living Systems 20 or its predecessors and Psychology 18.

Psychology 1802. Childhood Trauma - (New Course)

Catalog Number: 89958

Manuel S. Sprung

Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

This course will survey literature on the impact of traumatic stress on psychological development, with a special focus on cognitive aspects. Traumatic events, such natural and manmade disasters, maltreatment, community and school violence, war, terrorism, refugee trauma, traumatic loss, medical illness, and accidents, will be discussed. We will attend to questions about the nature of traumatic stress, posttraumatic stress symptoms, cultural aspects, potential risk and protective factors, psychological interventions, and posttraumatic growth following traumatic events.



Prerequisite: Science of Living Systems 20 or its predecessors and Psychology 16 or Psychology 18.

***Psychology 1851. Clinical Psychology: Science and Practice**

Catalog Number: 6392 Enrollment: Limited to 15.

Jill M. Hooley

Half course (spring term). W., 1-3.

Extends the material covered in Psychology 18 in a more clinical direction. Provides students with an opportunity to approach issues in clinical psychology from a scientist-practitioner perspective. Focuses on how research-based approaches to the study and treatment of psychopathology can translate into high quality ethical care for patients with major psychiatric problems.

Prerequisite: Science of Living Systems 20 or its predecessors; Psychology 18; and at least one other course in psychopathology strictly required.

[*Psychology 1853. Self-Destructive Behaviors]

Catalog Number: 0615

Matthew K. Nock

Half course (spring term). Hours to be arranged.

Why do some individuals intentionally engage in behaviors that cause themselves direct bodily harm, such as suicide and self-mutilation? We explore past and current models for understanding self-harm behaviors. We consider the classification, etiology, assessment, and treatment of self-harm behaviors from psychological, developmental, contextual, and biological perspectives.

Note: Expected to be given in 2011–12.

Prerequisite: Science of Living Systems 20 or its predecessors and Psychology 18.

[Psychology 1854. Schizophrenia: Seminar]

Catalog Number: 2771 Enrollment: Limited to 20.

Jill M. Hooley

Half course (fall term). Hours to be arranged.

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.

Note: Expected to be given in 2011–12.

Prerequisite: Science of Living Systems 20 or its predecessors and Psychology 18.

***Psychology 1861. Developmental Psychopathology**

Catalog Number: 1325 Enrollment: Limited to 30.

John R. Weisz

Half course (fall term). Th., 2:30–5:30. EXAM GROUP: 16, 17, 18

An overview of psychological problems and mental disorders in childhood and adolescence. Topics include internalizing conditions (e.g., anxiety, depression), externalizing conditions (e.g., conduct disorder and ADHD), eating disorders, autism, and child maltreatment. Theoretical perspectives, diagnostic criteria, etiology, and treatment approaches are examined.

Prerequisite: Science of Living Systems 20 or its predecessors and Psychology 18.



Psychology 1900. Introduction to Statistics for the Behavioral Sciences

Catalog Number: 4016

Matthew K. Nock

Half course (spring term). M, W, F 10-11 and an additional lab to be arranged. EXAM GROUP: 3

Provides a conceptual and practical introduction to statistics used in psychology and other behavioral sciences. Covers basic topics in statistics including: measures of central tendency and variability; probability and distributions, correlations and regression, hypothesis testing, t-tests, analysis of variance, and chi-square tests. Includes a lab section with instruction in statistical analysis using a computer program.

Note: Open to freshmen with permission of instructor. This course, when taken for a letter grade, meets the General Education requirement for Empirical and Mathematical Reasoning or the Core area requirement for Quantitative Reasoning.

***Psychology 1901a. Methods of Behavioral Research - (New Course)**

Catalog Number: 99655 Enrollment: Limited to 25.

Alfonso Caramazza

Half course (fall term). M., 1-2:30, and an additional two-hour lab to be arranged. EXAM GROUP: 6, 7

Theoretical and practical introduction to planning, conducting, reporting, and evaluating psychological research. Topics include experimental design, hypothesis generation and testing, experimental artifacts, and analysis of published research.

Prerequisite: One of: Psychology 1900, Statistics 100, 101, 102, 104, or the equivalent.

***Psychology 1901b. Methods of Behavioral Research - (New Course)**

Catalog Number: 48133 Enrollment: Limited to 25.

Nicholas Peter Aramovich

Half course (fall term). M., at 12 and a weekly lab W., at 7-9:30 or Th., at 1:30-4. EXAM GROUP: 5

Theoretical and practical introduction to planning, conducting, reporting, and evaluating psychological research. Topics include experimental design, hypothesis generation and testing, experimental artifacts, and analysis of published research.

Prerequisite: One of: Psychology 1900, Statistics 100, 101, 102, 104, or the equivalent.

***Psychology 1901c. Methods of Behavioral Research - (New Course)**

Catalog Number: 11718 Enrollment: Limited to 25.

Ken Nakayama

Half course (spring term). M., at 3; and a weekly lab T., 7-9:30 or Th., 2:30-5. EXAM GROUP: 8

Theoretical and practical introduction to planning, conducting, reporting, and evaluating psychological research. Topics include experimental design, hypothesis generation and testing, experimental artifacts, and analysis of published research.

Prerequisite: One of: Psychology 1900, Statistics 100, 101, 102, 104, or the equivalent.

***Psychology 1901d. Methods of Behavioral Research - (New Course)**

Catalog Number: 78347 Enrollment: Limited to 25.



Felix Warneken

Half course (spring term). Tu., at 12; and a weekly lab W., 1:30-4 or W., 7pm-9:30pm. EXAM GROUP: 14

Theoretical and practical introduction to planning, conducting, reporting, and evaluating psychological research. Topics include experimental design, hypothesis generation and testing, experimental artifacts, and analysis of published research.

Prerequisite: One of: Psychology 1900, Statistics 100, 101, 102, 104, or the equivalent.

***Psychology 1950. Intermediate Statistical Analysis in Psychology**

Catalog Number: 4889

Samuel Taylor Moulton

Half course (fall term). Lecture M., W., 1-2:30 pm; Lab Th., 10-11:30 am.

This course offers intense, foundational exposure to psychological statistics, focusing heavily on analysis of variance (one-way, factorial, repeated-measures, mixed-model). Other topics include: exploratory data analysis, sampling distributions, null hypothesis significance testing, t-tests, fixed versus random effects, post hoc and planned comparisons, correlation, simple regression, the general linear model, chi-square tests, nonparametric statistics, confidence intervals, and meta-analysis.

Note: Required of doctoral students in Psychology.

Prerequisite: Psychology 1900 or the equivalent, and passing score on screening examination (email instructor for scheduling).

***Psychology 1952. Multivariate Analysis in Psychology**

Catalog Number: 6191

James Sidanius

Half course (spring term). Lecture: M., W., 1-2:30; Lab: Th., 5-6:30. EXAM GROUP: 6, 7

This course introduces the empirical measurement of abstract constructs and multivariate analysis. Topics include: reliability and validity, multiple regression, exploratory and confirmatory factor analyses, discriminant analysis, canonical correlation analysis and structural equation modeling.

Prerequisite: Psychology 1900.

Cross-listed Courses

Linguistics 132. Psychosemantics

[Neurobiology 130 (formerly Psychology 1205). Drugs and the Brain: From Neurobiology to Ethics]

Primarily for Graduates

***Psychology 2010. Contemporary Topics in Psychological Research**

Catalog Number: 6515

Susan E. Carey

Half course (fall term). M., Th., 4-6. EXAM GROUP: 9, 18

Advanced survey of research topics in cognition/brain/behavior, development, experimental



psychopathology, clinical and social psychology.

Note: Required of, and limited to, first-year doctoral students in the department of Psychology.

[*Psychology 2020ab. Cognition, Brain, and Behavior: Proseminar]

Catalog Number: 7860

Steven Pinker and members of the Department

Full course (spring term). Hours to be arranged.

Advanced survey of research topics in cognition, brain, and behavior.

Note: Expected to be given in 2011–12. Limited to first-year doctoral students in Psychology.

[*Psychology 2040. Contemporary Topics in Psychopathology]

Catalog Number: 4628

Jill M. Hooley

Half course (spring term). Hours to be arranged.

Advanced survey of current topics in experimental psychopathology.

Note: Expected to be given in 2011–12. Required of first- or second-year graduate students in clinical. Doctoral students in clinical psychology only.

[*Psychology 2050. History of Psychology: Seminar]

Catalog Number: 3378

Richard J. McNally

Half course (spring term). Hours to be arranged.

Covers major issues, theories, schools of thought, and controversies integral to the development of psychology from the late 19th century to the middle of the 20th century. Readings include classic articles exemplifying these themes.

Note: Expected to be given in 2011–12. Expected to be given in 2011–12. Open to undergraduates with permission of instructor.

Prerequisite: For undergraduates: Psychology 1 or Science B-62 plus one from among Psychology 13, Psychology 15, Psychology 16, Psychology 18, or MCB 80.

[*Psychology 2100. Research Methodology]

Catalog Number: 8552

J. Richard Hackman

Half course (spring term). Hours to be arranged.

How to conduct empirical research, primarily with human participants. Topics include formulating problems, design strategies, developing and validating concepts, designing and assessing measures and manipulations; issues in data collection, analysis, and interpretation; and publishing findings.

Note: Expected to be given in 2011–12. Limited to doctoral students. Offered alternate years.

***Psychology 2110. Emotional Development: Biology, Relationships, Culture**

Catalog Number: 1403

Gabrielle Rappolt Schlichtmann

Half course (spring term). Th., 12–3. EXAM GROUP: 14, 15, 16

Explores the connections between biology, emotions, relationships, and culture. Reviews classic work such as Darwin and psychodynamics as well as modern emotion research about attribution,



development, culture, and neuroscience. Format combines discussion, debate, and lecture.

Note: Offered jointly with the Graduate School of Education as H137.

Prerequisite: Science of Living Systems 20 or its predecessors and any Tier 2 course.

***Psychology 2130. Core Knowledge and Cognitive Development - (New Course)**

Catalog Number: 60281 Enrollment: Intended for graduate students.

Elizabeth S. Spelke and Laura Schulz (MIT)

Half course (spring term). M., 6–8:30 p.m.

This MIT-Harvard seminar focuses on the nature and development of human concepts by considering both infants' representations (e.g. of objects, actions, social partners) and children's inferential abilities. Discussion centers on research in human cognitive development, in relation to work in cognitive psychology, animal cognition, cognitive neuroscience, computational modeling, and philosophy. Questions include: Do humans possess innate abstract concepts of cause, agent, or belief? How do children learn new concepts, both independently and from others?

Note: Offered jointly with by MIT as Brain and Cognitive Science 9.916. The course is held every other week at MIT. Watch the Supplement for first meeting information.

***Psychology 2150r (formerly *Psychology 2150). Social Cognitive Development: Research Seminar**

Catalog Number: 29628

Felix Warneken 6303

Half course (fall term; repeated spring term). Hours to be arranged.

Year long lab course on children's social-cognitive development and the study of cooperation. Students develop and pilot experiments with children or participate in ongoing projects. In addition, students read and discuss papers on social cognition, understanding of norms, and cooperation from developmental and evolutionary psychology.

Note: Open to advanced undergraduates with permission of instructor. First meeting will be on September 8, 2010.

Prerequisite: For undergraduates: Psychology 1 or Science B 62 plus a Tier 2 course.

[*Psychology 2170. Developmental Proseminar]

Catalog Number: 6883

Susan E. Carey and members of the Department

Half course (fall term). Hours to be arranged.

Proseminar in conceptual development and language acquisition.

Note: Expected to be given in 2011–12. Open to all graduate students in the department and counts as one of the required two major survey courses. Open to others by permission of the instructor.

[*Psychology 2185. Unconscious Processing in Vision and Action]

Catalog Number: 32919

Alfonso Caramazza and Ken Nakayama

Half course (fall term). Hours to be arranged.

Events that don't reach consciousness activate a smaller set of brain structures than events that do. We review psychophysical, neuropsychological and neuroimaging research that may reveal



the major brain circuits and pathways involved in unconscious processing.

Note: Expected to be given in 2011–12. Expected to be given in 2011–12. Undergraduate enrollment encouraged with permission of instructor.

Prerequisite: Psychology 1 or Science B-62 and a PSY 13 or MCB 80.

[*Psychology 2190. Topics in Language Acquisition]

Catalog Number: 2529

Jesse Snedeker

Half course (spring term). Hours to be arranged.

Seminar examining alternate theories of language acquisition and assessing their empirical validity. Focuses on speech perception, word learning, semantic and early syntactic development, interactions between language acquisition and cognitive development, and children's online language comprehension.

Note: Expected to be given in 2011–12. Expected to be given in 2011–12. Open to graduate students only.

[*Psychology 2280. Language and Human Nature]

Catalog Number: 6741

Steven Pinker

Half course (spring term). Tu., 6–8 p.m.

Language as a window into human conceptions of space, time, causation, number, agency, sex, and status. The focus is on words and grammatical constructions, but also diverse phenomena like swearing, baby naming, and legal language.

Note: Expected to be given in 2011–12. Expected to be given in 2011–12. Undergraduates admitted with permission of instructor.

Prerequisite: For undergraduates: Psychology 1 or Science B-62; plus one from: Psychology 13, Psychology 16, Psychology 1302, or any course in the linguistics department.

***Psychology 2335r. Concepts, Actions, Objects (CAOs): Research Seminar**

Catalog Number: 5121

Alfonso Caramazza

Half course (fall term; repeated spring term). Hours to be arranged.

Discussion of current research on the organization of conceptual and lexical knowledge. We will also discuss ongoing research by participants in the seminar.

Note: Open to graduate and undergraduate students involved in research in language. Open to undergraduates with permission of instructor.

***Psychology 2352r. Laboratory for Social Cognitive Neuroscience**

Catalog Number: 6187

Jason P. Mitchell

Half course (fall term; repeated spring term). F., 1:30–3:30. EXAM GROUP: 6, 7, 8

Provides instruction and experience in conducting research on social cognition via the methods of cognitive neuroscience. Special focus on issues of mental state inference, stereotyping, and the self.

Note: Open to graduate and undergraduate students working in the instructor's laboratory.



***Psychology 2354r. Advanced Laboratory in Cognitive Neuroscience**

Catalog Number: 0838

Randy L. Buckner

Half course (fall term; repeated spring term). Hours to be arranged.

Students work directly on a research project and get hands-on experience with neuroimaging and cognitive neuroscience techniques, including functional MRI. MRI laboratory training consists of safety, instruction on running the scanner, and paradigm design. In addition to laboratory work, students attend a weekly research seminar where ongoing and proposed research projects are discussed.

Note: Open to graduate and undergraduate students working in the instructor's laboratory.

***Psychology 2356r. Visual Cognition: Research Seminar**

Catalog Number: 4407 Enrollment: Limited enrollment.

George Angelo Alvarez, Ken Nakayama, and Yaoda Xu

Half course (fall term; repeated spring term). Hours to be arranged.

Discussion of current research on visual cognition (how we perceive, attend to, and remember visual information). We will also discuss ongoing research by participants in the seminar.

Note: Open to graduate and undergraduates.

***Psychology 2358r. Memory: Research Seminar**

Catalog Number: 0141

Daniel L. Schacter

Half course (fall term; repeated spring term). Hours to be arranged.

Topic to be announced.

Note: Limited to students involved in research.

[*Psychology 2381. Hot Topics in Cognitive Science and Neuroscience]

Catalog Number: 81736

Marc D. Hauser and Alfonso Caramazza

Half course (spring term). Hours to be arranged.

Explores how research with different methods (behavior, neuroimaging, neurophysiology) and populations can be integrated to understand mental representations and their neural organization. Topics include representations of objects, actions and words, language and social decision-making.

Note: Expected to be given in 2011–12. Expected to be given in 2011–12. Undergraduates welcome with permission of instructor.

Prerequisite: Psychology 13 or MCB 80.

***Psychology 2400. Cognitive Psychology and Emotional Disorders**

Catalog Number: 6138

Richard J. McNally

Half course (spring term). M., 4–6.

Research and theory on the application of cognitive psychology methods applied to the understanding of anxiety and mood disorders.

Note: Limited to graduate students.



***Psychology 2420. Cognitive-Behavioral Treatment of Psychological Disorders**

Catalog Number: 8446

Jill M. Hooley

Half course (fall term). Th., 1:30–3:30.

Covers current cognitive-behavioral approaches to the treatment of common psychological disorders in adults. Emphasis is on the practical aspects of treatment, and on treatment outcome research. Includes theoretical underpinnings of cognitive-behavioral therapy.

Note: Limited to Harvard graduate students in clinical psychology.

***Psychology 2430. Cultural and Individual Diversity**

Catalog Number: 9756

Matthew K. Nock

Half course (fall term). M., 4–6.

Examines cultural, racial, ethnic, and other individual differences in human behavior which affect the practice of psychology. Reviews current science examining the relations between these factors and human behavior, psychopathology, and provision of psychological services.

Note: Limited to Harvard doctoral students in clinical psychology.

***Psychology 2436r. Social Neuroscience and Psychopathology Laboratory**

Catalog Number: 9962

Christine Hooker

Half course (fall term; repeated spring term). Hours to be arranged.

Provides instruction and experience in conducting research on social cognitive processes as they relate to psychopathology. Cognitive neuroscience methods, such as fMRI, are emphasized.

Prerequisite: Psychology 18

[*Psychology 2445. Psychological Treatment Research]

Catalog Number: 1835

Matthew K. Nock

Half course (spring term). Hours to be arranged.

Review theories of behavior change, methods of studying such change (single-case research designs, randomized clinical trials, etc.), and current evidence-based approaches to assessing and treating psychopathology. Examines historical, ethical, and cultural issues.

Note: Expected to be given in 2011–12. Open to undergraduates with permission of instructor.

Prerequisite: Psychology 1 and Psychology 18.

Psychology 2446r. Clinical Research Laboratory

Catalog Number: 5628

Jill M. Hooley

Half course (fall term; repeated spring term). Hours to be arranged.

Provides instruction and experience conducting clinical research in laboratory and clinical settings, with a special focus on severe psychopathology. Topics will include: Self-Injurious behaviors, depression, and adult attachment patterns in close relationships.

Note: Open to graduate and undergraduate students working in the instructor's laboratory.



***Psychology 2450. Affective and Social Neuroscience**

Catalog Number: 9796

Christine Hooker

Half course (spring term). Th., 1–3.

Reviews two emerging fields in neuroscience, affective and social neuroscience. Through integration of human and animal data, the course focuses on mapping affect, motivation, and social cognition to brain function.

Note: Open to advanced undergraduates with permission of instructor.

Prerequisite: Psychology 1 or Science B-62 plus any Tier 2 course.

[*Psychology 2460. Diagnostic Interviewing]

Catalog Number: 4157 Enrollment: Limited to 12.

Jill M. Hooley

Half course (fall term). Hours to be arranged.

Students develop clinical interviewing and diagnostic skills using the Structured Clinical Interview for DSM-III-R and other instruments. Examines issues in diagnosis and assessment; provides exposure to psychopathology syndromes via tapes and clinical interviews.

Note: Expected to be given in 2012–13. Graduate students only.

Prerequisite: Psychology 2040.

Psychology 2461r. Laboratory for Clinical and Developmental Research

Catalog Number: 8042

Matthew K. Nock

Half course (fall term; repeated spring term). F., at 3.

Provides instruction and experience in conducting clinical research in laboratory and clinical settings, with a special focus on developmental psychopathology.

Note: Open to graduate and undergraduate students working in the instructor's laboratory.

[*Psychology 2464. Research Methods in Child & Adolescent Clinical Psychology]

Catalog Number: 4638

John R. Weisz

Half course (spring term). Th., 1:30–3.

Advanced laboratory methods seminar on designing and conducting research on child and adolescent mental health problems and interventions, especially in school and mental health care settings. Problem areas include depression, anxiety, and disruptive conduct.

Note: Expected to be given in 2011–12. The class will be conducted at the Judge Baker Children's Center in Boston.

Prerequisite: For undergraduates: Science of Living Systems 20 (or equivalent) and PSY 18 plus a statistics course.

***Psychology 2480. Human Neuropsychology/Neuroanatomy: Seminar**

Catalog Number: 4335 Enrollment: Limited to 20.

William P. Milberg (Medical School)

Half course (fall term). Tu., 4:30–6:30.

Introduction to the anatomical structure of the human brain. Emphasis on neuropsychological correlates and cortical representation of higher cognitive functions. Gross brain dissection



laboratory and discussions of descriptive and theoretical aspects of clinical neuropsychological phenomena.

Note: Preference given to graduate students who have completed Psychology 2010; if space is available, qualified undergraduates may enroll with permission of instructor.

Prerequisite: For undergraduates: Science of Living Systems 20 or its equivalent and any Tier 2 course. MCB 80 is recommended but not required.

***Psychology 2500. Advanced Social Psychology**

Catalog Number: 5094

Daniel M. Wegner

Half course (fall term). Tu., 1:30–3:45.

Advanced survey of classic and current research and theory in social psychology, including self, social cognition, attitudes, social influence, altruism and aggression, prejudice and discrimination, close relationships, and group dynamics.

Note: For doctoral students only.

***Psychology 2530r. Mental Control: Research Seminar**

Catalog Number: 2364

Daniel M. Wegner and Andrea Heberlein

Half course (fall term; repeated spring term). F., at 12 or another hour to be arranged, and additional research hours to be arranged.

This seminar provides research experience in mental control, including topics of mind perception and consciousness.

Note: Limited to graduate students and undergraduates involved in research in the instructor's laboratory.

Prerequisite: For undergraduates: Psychology 1 plus any one of Psychology 13, 15, 16, 18, or MCB 80.

***Psychology 2553r. Decision Making and Negotiation: Research Seminar**

Catalog Number: 4679

Max H. Bazerman (Business School)

Half course (fall term; repeated spring term). Hours to be arranged.

This seminar provides lab experience in behavioral approaches to decision making and negotiation.

Note: Open to students working on research in the instructor's laboratory. Offered jointly with the Business School as 4425.

***Psychology 2554r. Moral Cognition: Research Seminar**

Catalog Number: 9481

Joshua D. Greene

Half course (fall term; repeated spring term). Hours to be arranged.

Year long lab course for students engaged in research on moral cognition.

[*Psychology 2555r. Emotion and Decision Making: Research Seminar]

Catalog Number: 3371

Jennifer Lerner (Kennedy School)



Half course (fall term; repeated spring term). Hours to be arranged.

Includes 10-12 hours of lab work per week. Lab methods course to consider connections among theories of judgment and decision making and data. Students may design and conduct an experiment.

Note: Expected to be given in 2011–12. A 10-page final research paper is required. Admitted students required to participate for two consecutive semesters, which may include a summer session if desired. Offered jointly with the Kennedy School as MLD-311 in fall term or MLD-312 in spring term.

***Psychology 2570r. Intergroup Relations: Research Seminar**

Catalog Number: 4440

James Sidanius

Half course (fall term; repeated spring term). Fall: Th., 1:30–3; Spring: Th., 5–6:30.

The seminar provides students with research experience concerning different forms of intergroup conflict, including the social psychology of interracial and interethnic conflict, and the social psychology of war and aggression.

***Psychology 2580r. Affective Forecasting: Research Seminar**

Catalog Number: 4262

Daniel T. Gilbert

Half course (fall term; repeated spring term). Hours to be arranged.

Topic to be announced.

Note: Open to students working on research in the instructor's laboratory.

***Psychology 2630. Social Behavior in Organizations: Seminar**

Catalog Number: 0991

J. Richard Hackman

Half course (fall term). Th., 11:30–1. EXAM GROUP: 13, 14

Topics include how groups and organizations affect individual members and vice versa; interpersonal and group processes; work team effectiveness; power, political, and intergroup dynamics; group and organizational leadership.

Note: Limited to doctoral students. Students are expected to attend the lectures of Psychology 1501.

***Psychology 2640r. The Understand Seminar**

Catalog Number: 7865

Mahzarin R. Banaji

Half course (fall term; repeated spring term). W., 2:30–4:30.

Topic to be announced.

Note: Open to graduate students involved in research in the instructor's laboratory, and to select juniors and seniors.

[*Psychology 2650. Behavioral Approaches to Decision Making and Negotiation]

Catalog Number: 7147

Max H. Bazerman (Business School)

Half course (spring term). Hours to be arranged.



Research overview of behavioral decision making and decision analytic perspectives to negotiation. Explores bounded rationality, decision biases, human decision making. Develops a behavioral decision perspective to negotiation, and examines how the field is currently evolving. *Note:* Expected to be given in 2011–12. Offered jointly with the Business School as 4420 and with the Kennedy School as MLD-308. Open to juniors and seniors in psychology and economics who are writing, or plan to write, a senior thesis.

***Psychology 2651. Social Cognition from a Developmental and Evolutionary Perspective - (New Course)**

Catalog Number: 31825 Enrollment: Limited to 15.

Felix Warneken

Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17

Includes the representation of agency, intentions, and others' minds in children and nonhuman primates, the ontogenetic and phylogenetic origins of empathy, cooperative behaviors and norms. Emphasizes new research bridging psychology, anthropology, and behavioral economics.

Note: Open to advanced undergraduates with permission of instructor.

***Psychology 2660r. Research Seminar in Mindfulness Theory**

Catalog Number: 4909

Ellen J. Langer

Half course (fall term; repeated spring term). Spring: Tu., 1:30–3:30.

Mindlessness/mindfulness theory is compared/contrasted to relevant theories in social psychology, psychopathology, and cognitive psychology.

***Psychology 2670a. Decision Making and the Psychology of Possibility**

Catalog Number: 1193 Enrollment: Limited to 15.

Ellen J. Langer

Half course (fall term). W., 9:30–11:30. EXAM GROUP: 2, 3, 4

Topics in decision making such as rationality, risk-taking, helplessness, and health are examined through the lens of mindfulness theory. Special emphasis given to the psychology of possibility in applied settings.

Note: Open to qualified undergraduates.

Prerequisite: An introductory psychology course and a Tier 2 course.

[*Psychology 2670b. Decision Making and the Psychology of Possibility II]

Catalog Number: 3434

Ellen J. Langer

Half course (spring term). Hours to be arranged.

A deeper exploration into the theoretical and experimental issues pertaining to decision making and the psychology of possibility, raised in Psychology 2670a.

Note: Expected to be given in 2011–12. Open to qualified undergraduates.

Prerequisite: Psychology 2670a.

Cross-listed Courses

African and African American Studies 241. Topics in African American Social Science



Graduate Courses of Reading and Research

***Psychology 3010. Special Reading and Research**

Catalog Number: 7858

George Angelo Alvarez 6093, Mahzarin R. Banaji 4258, Randy L. Buckner 5370, Alfonso Caramazza 1871 (on leave spring term), Susan E. Carey 4113, Daniel T. Gilbert 2359 (on leave 2010-11), Joshua D. Greene 5594, J. Richard Hackman 1504, Marc D. Hauser 3347 (on leave 2010-11), Christine Hooker 5768, Jill M. Hooley 1191, Stephen M. Kosslyn 7836, Ellen J. Langer 4967, Richard J. McNally 2978 (on leave fall term), Jason P. Mitchell 5481, Ken Nakayama 2558, Matthew K. Nock 4645, Steven Pinker 4733, Daniel L. Schacter 2805, James Sidanius 5371, Jesse Snedeker 4118, Elizabeth S. Spelke 3850, Felix Warneken 6303, Daniel M. Wegner 3758, John R. Weisz 6001 (on leave spring term), and Yaoda Xu 6094 (on leave spring term)

***Psychology 3020. Direction of Doctoral Dissertations**

Catalog Number: 4492

Members of the Department and others listed under Psychology 3010

***Psychology 3050. Clinical Practicum**

Catalog Number: 6299

Jill M. Hooley 1191, Richard J. McNally 2978 (on leave fall term) (spring term only), and Matthew K. Nock 4645

Half course (fall term; repeated spring term). Hours to be arranged.

Students work in clinical settings locally and, under supervision, are directly involved in the treatment and clinical care of patients.

Note: Limited to Harvard doctoral students in clinical psychology.

***Psychology 3070. Clinical Assessment and Treatment Practicum**

Catalog Number: 4439

Jill M. Hooley 1191 and members of the Department

Half course (fall term; repeated spring term). Hours to be arranged.

Faculty interview psychiatric inpatients to demonstrate establishing treatment alliances, gathering histories, and initial assessment. Group discussion will consider how theoretical principles are applied to clinical work.

Note: Limited to graduate students in clinical psychology.

***Psychology 3200. Research Seminar in Clinical Science**

Catalog Number: 6455

Matthew K. Nock 4645

Half course (fall term; repeated spring term). W., 4–5:30.

Provides a forum for presenting and discussing current research in experimental psychopathology/clinical psychology. Presenters include graduate students, faculty, and outside speakers.

***Psychology 3220 (formerly *Psychology 2220a). Developmental Studies: Seminar**

Catalog Number: 4672



Susan E. Carey 4113 (fall term only) and Elizabeth S. Spelke 3850 (spring term only)
Half course (fall term; repeated spring term). M., 2:30–4.
Research seminar open to graduate students conducting research in cognitive development.

***Psychology 3240. Research Seminar in Cognitive Development**

Catalog Number: 5142

Elizabeth S. Spelke 3850

Half course (fall term; repeated spring term). Fall: Th., 2:30–4; Spring: Tu., 2:30–4.

[*Psychology 3250. Psychological Testing]

Catalog Number: 7164

Marla D. Eby (Medical School) 5333

Half course (spring term). Hours to be arranged.

This weekly seminar for graduate students in clinical psychology is designed to provide basic skills in administering and interpreting standardized tests in the areas of intellectual assessment and personality assessment.

Note: Expected to be given in 2011–12. Open to Harvard doctoral students in clinical psychology.

***Psychology 3260 (formerly *Psychology 2360). Conceptual Development: Research Seminar**

Catalog Number: 6601

Susan E. Carey 4113

Covers research methods for the study of conceptual development throughout the life span. All students must be currently engaged in experimental research.

***Psychology 3270 (formerly *Psychology 2270). Language Acquisition: Research Seminar**

Catalog Number: 0770

Jesse Snedeker 4118

Half course (fall term; repeated spring term). Fall: Tu., 1:30–3; Spring: Tu., 1–2:30.

Covers research methods for language acquisition and language comprehension throughout the life span. All students must be currently engaged in experimental research.

***Psychology 3340. Research Seminar in Cognition, Brain, and Behavior**

Catalog Number: 1754

George Alvarez 6093, Yaoda Xu 6094, and members of the Department

Half course (fall term; repeated spring term). Th., 12–1:30.

Researchers in CBB, including graduate students, postdoctoral fellows, and faculty, present and discuss current research in cognitive science. Topics include memory, language, vision, mental imagery, concepts, animal and infant cognition, and related areas.

[*Psychology 3360. Current Topics in Vision and Sensory Processes]

Catalog Number: 0604

George Angelo Alvarez 6093, Ken Nakayama 2558, and Yaoda Xu 6094 (on leave spring term)

Note: Expected to be given in 2011–12.



***Psychology 3420. Research Workshop in Social Psychology**

Catalog Number: 7610

Joshua D. Greene 5594

Half course (fall term; repeated spring term). Fall: Tu., 12–1:30; Spring: Tu., 12–2.

Provides a forum for the presentation, discussion, and critique of current research in social psychology. Presenters include graduate students and faculty in social psychology plus visitors.

***Psychology 3500. Psychological Science: Talking Points**

Catalog Number: 5341

Steven Pinker 4733

Half course (spring term). Tu., 1:30–3:30.

A graduate companion course to "Psychological Science," which explores the theories and controversies in greater depth. Topics include genetics, evolution, cognitive neuroscience, perception, development, consciousness, social psychology, personality, psychopathology, violence, sex, and morality.

Note: Enrollment is limited to teaching fellows for "The Human Mind" and graduate students who have obtained the permission of the instructor.

***Psychology 3550. Teaching Psychology**

Catalog Number: 0853

Mahzarin R. Banaji 4258

Half course (fall term; repeated spring term). W., at 12.

Note: Limited to and required of Sophomore Tutors.

***Psychology 3555. Instructional Styles in Psychology**

Catalog Number: 6831

J. Richard Hackman 1504 and members of the Department

Half course (fall term; repeated spring term). W., at 11.

Note: Normally required of and limited to department graduate students who are first-time teaching fellows.

***Psychology 3600. The Origins of Knowledge: Talking Points**

Catalog Number: 0489

Susan E. Carey 4113 and Elizabeth S. Spelke 3850

Half course (spring term). Hours to be arranged.

Graduate companion course to Origins of Knowledge, which explores the theories and controversies in greater depth. Topics include the evolutionary, cultural, and ontogenetic origins of representational capacities, including space, number, objects, agents, language, and intuitive theories.

Note: Limited to students in the Psychology Department or to those who have obtained permission of the instructor.

***Psychology 3610. Leadership and Group Behavior: Research Seminar**

Catalog Number: 5748

J. Richard Hackman 1504

Half course (fall term; repeated spring term). W., 12–2.



Workshop on theory and methods that are relevant to the conduct of empirical research on purposive groups. Participation is restricted to students who are conducting such research.

[*Psychology 3800. Psychometric Theory]

Catalog Number: 0607

Richard J. McNally 2978 (on leave fall term)

Half course (fall term).

Covers basic psychometric theory and methods essential for reliable and valid measurement.

Reliability, validity, and generalizability reviewed. Detailed survey of techniques used to create and evaluate a scale.

Note: Expected to be given in 2011–12. Limited to Harvard graduate students in clinical psychology.

[*Psychology 3900 (formerly *Psychology 2900). Professional Ethics]

Catalog Number: 6702

Jill M. Hooley 1191

Half course (spring term).

Examines ethical principles and legal issues involved in the practice of psychology, with an emphasis on clinical psychology. Covers ethical principles and code of conduct; uses case examples to highlight the application of these principles.

Note: Expected to be given in 2011–12. Limited to graduate students.

Public Policy

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Committee on Higher Degrees in Public Policy

Robert N. Stavins, Albert Pratt Professor of Business and Government at the John F Kennedy School of Government (*Kennedy School*) (*Chair*)

Alberto Abadie, Professor of Public Policy at the John F. Kennedy School of Government (*Kennedy School*)

Arthur I. Applbaum, Professor of Ethics and Public Policy at the John F. Kennedy School of Government (*Kennedy School*)

Mary Jo Bane, Thornton Bradshaw Professor of Public Policy and Management at the JFK School of Government (*Kennedy School*)

Iris Bohnet, Professor of Public Policy at the John F. Kennedy School of Government (*Kennedy School*)

George J. Borjas, Robert W. Scrivner Professor of Economics and Social Policy at the John F.



Kennedy School of Gov't (*Kennedy School*)

Hannah Riley Bowles, Associate Professor of Public Policy at the John F. Kennedy School of Government (*Kennedy School*)

William C. Clark, Harvey Brooks Professor of International Science Public Policy and Human Development, Kennedy School of Government (*Kennedy School*)

Jeffrey A. Frankel, James W Harpel Professor of Capital Formation and Growth at the John F Kennedy School of Government (*Kennedy School*)

Ricardo Hausmann, Professor of the Practice of Economic Development at the John F Kennedy School of Government (*Kennedy School*)

William W. Hogan, Raymond Plank Professor of Global Energy Policy (*Kennedy School*)

Asim I. Khwaja, Professor of Public Policy at the John F. Kennedy School of Government (*Kennedy School*)

Jennifer Lerner, Professor of Public Policy and Management (*Kennedy School*)

Brigitte C. Madrian, Aetna Professor of Public Policy and Corporate Management (*Kennedy School*)

Erich Muehlegger, Associate Professor of Public Policy (*Kennedy School*)

Rohini Pande, Mohamed Kamal Professor of Public Policy (*Kennedy School*)

Robert D. Putnam, Peter and Isabel Malkin Professor of Public Policy (*on leave 2010-11*)

Monica D. Toft, Associate Professor of Public Policy (*Kennedy School*)

Stephen Martin Walt, Robert and Renee Belfer Professor of International Affairs at the J. F. K. School of Government (*Kennedy School*)

Richard J. Zeckhauser, Frank Plumpton Ramsey Professor of Political Economy in the John F Kennedy School of Government (*Kennedy School*)

The doctoral program in Public Policy trains qualified candidates to shape the direction of public policy research and to prepare the next generation of teachers for programs in public policy. It also qualifies individuals to perform high-level policy analysis and prepares them for positions of leadership in the public sector. Interested applicants should contact the John F. Kennedy School of Government for application material.

All PhD candidates must demonstrate mastery of six 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 GSAS, a student is expected to work closely with a faculty adviser and dissertation committee. Most dissertations involve the application of analytic techniques to the solution of a substantive problem. A few methodological theses concentrate on developing new analytic techniques, their usefulness to be demonstrated through explicit application to a policy issue.

For more information about the doctoral program, visit the program website at www.hks.harvard.edu/degrees/phd



The Study of Religion

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Committee on the Study of Religion

Michael J. Puett, Professor of Chinese History (*Chair*)
Ryuichi Abe, Reischauer Institute Professor of Japanese Religions
M. Shahab Ahmed, Associate Professor of the Study of Religion (*on leave 2010-11*)
Ali S. Asani, Professor of Indo-Muslim and Islamic Religion and Cultures
David L. Carrasco, Neil L. Rudenstine Professor for the Study of Latin America in the Faculty of Divinity and the Faculty of Arts and Sciences
Shaye J.d. Cohen, Nathan Littauer Professor of Hebrew Literature and Philosophy
Diana L. Eck, Fredric Wertham Professor of Law and Psychiatry in Society
Francis Fiorenza, Charles Chauncey Stillman Professor of Roman Catholic Theological Studies (*Divinity School*) (*Director of ThD Studies*)
Marla F. Frederick, Professor of African and African American Studies and of Religion
Luis M. Girón Negrón, Professor of Romance Languages and Literatures and of Comparative Literature
William Albert Graham, Murray A. Albertson Professor of Middle Eastern Studies
R. Marie Griffith, John A. Bartlett Professor of New England Church History (*Divinity School*)
Janet Gyatso, Hershey Professor of Buddhist Studies (*Divinity School*) (*Director of PhD Studies*)
Charles Hallisey, Yehan Numata Senior Lecturer in Buddhist Literatures (*Divinity School*)
Helen Hardacre, Reischauer Institute Professor of Japanese Religions and Society (*on leave spring term*)
Amy Hollywood, Elizabeth H. Monrad Professor of Christian Studies (*Divinity School*)
Tamsin Jones, Lecturer on the Study of Religion (*Director of Undergraduate Studies*)
David Lamberth, Professor of Philosophy and Theology (*Divinity School*)
Laura S. Nasrallah, Associate Professor of New Testament and Early Christianity (*Divinity School*)
Jacob Olupona, Professor of African and African American Studies and Professor of African Religious Traditions
Parimal G. Patil, Professor of Religion and Indian Philosophy
Kimberley C. Patton, Professor of the Comparative and Historical Study of Religion (*Divinity School*)
Leigh E. Schmidt, Charles Warren Professor of the History of Religion in America (*Divinity School*)
Malika Zeghal, Prince Alwaleed Bin Talal Professor in Contemporary Islamic Thought and Life



Other Faculty Offering Instruction in the Study of Religion

Susan Abraham, Assistant Professor of Ministry Studies (*Divinity School*)
 Leila N. Ahmed, Victor S Thomas Professor of Divinity (*Divinity School*)
 Giovanni Battista Bazzana, Assistant Professor of New Testament (*Divinity School*)
 Aisha Mahina Beliso-De Jesus, Assistant Professor of African American Religion (*Divinity School*)
 Ann D. Braude, Senior Lecturer in American Religious History (*Divinity School*) (*Director of the Women's Studies in Religion Program*)
 Francis X. Clooney, Parkman Professor of Divinity and Professor of Comparative Theology (*Divinity School*)
 Harvey G. Cox, Jr., Professor of Divinity, Emeritus (*Divinity School*)
 Peter J. Gomes, Plummer Professor of Christian Morals, Pusey Minister in the Memorial Church (*Divinity School*)
 David D. Hall, Professor of Divinity, Emeritus (*Divinity School*)
 Jeffrey F. Hamburger, Kuno Francke Professor of German Art and Culture
 Jay M. Harris, Harry Austryn Wolfson Professor of Jewish Studies (*Dean of Undergraduate Education*)
 David Neil Hempton, Alonzo L. McDonald Family Professor of Evangelical Theological Studies (*Divinity School*)
 Albert Henrichs, Eliot Professor of Greek Literature
 Evelyn Brooks Higginbotham, Victor S. Thomas Professor of History and of African and African American Studies (*on leave 2010-11*)
 Mark D. Jordan, Richard Reinhold Niebuhr Professor of Divinity (*Divinity School*)
 Beverly M. Kienzle, John H. Morison Professor of the Practice of Latin and Romance Languages, Lecturer on Medieval Christianity, Director of Language Studies (*Divinity School*)
 Karen L. King, Hollis Professor of Divinity (*Divinity School*)
 Arthur Kleinman, Esther and Sidney Rabb Professor of Anthropology in the Faculty of Arts and Sciences and Professor of Medical Anthropology in the Faculty of Medicine
 James T. Kloppenberg, Charles Warren Professor of American History
 Helmut H. Koester, John H. Morison Research Professor of Divinity and Winn Research Professor of Ecclesiastical History (*Divinity School*)
 Smita Lahiri, Associate Professor of Anthropology (*on leave fall term*)
 Jon D. Levenson, Albert A. List Professor of Jewish Studies (*Divinity School*)
 Peter Machinist, Hancock Professor of Hebrew and other Oriental Languages
 Kevin J. Madigan, Winn Professor of Ecclesiastical History (*Divinity School*)
 Daniel P. McKanan, Ralph Waldo Emerson Unitarian Universalist Association Senior Lecturer in Divinity (*Divinity School*)
 Everett I. Mendelsohn, Professor of the History of Science, Emeritus
 Anne E. Monius, Professor of South Asian Religions (*Divinity School*)
 Roy Mottahedeh, Gurney Professor of History (*Director of the Prince Alwaleed Bin Talal Islamic Studies Program*) (*on leave fall term*)
 Cameron Elliot Partridge, Lecturer on Studies of Women, Gender, and Sexuality (*Counselor to Episcopal/Anglican Students*)
 Stephanie A. Paulsell, Amory Houghton Professor of the Practice of Ministry Studies (*Divinity School*)



Mayra de Lourdes Rivera Rivera, Assistant Professor of Theology and Latina/o Studies
Jonathan Schofer, Associate Professor of Comparative Ethics (*Divinity School*)
Elisabeth Schüssler Fiorenza, Krister Stendahl Professor of Divinity (*Divinity School*)
Stephen Paul Shoemaker, Lecturer on the Study of Religion
P. Oktor Skjaervo, Aga Khan Professor of Iranian (*on leave spring term*)
Charles Stang, Assistant Professor of Early Christian Thought (*Divinity School*)
Ronald Thiemann, Bussey Professor of Theology (*Divinity School*)
Wei-ming Tu, Harvard Yenching Professor of Chinese History and Philosophy and of Confucian Studies, Emeritus
Leonard W. J. van der Kuijp, Professor of Tibetan and Himalayan Studies (*on leave fall term*)
Preston N. Williams, Houghton Research Professor of Theology and Contemporary Change (*Divinity School*)

Courses listed in this section are offered by the Committee on the Study of Religion and by various departments. The Committee is responsible for the program of concentration for undergraduates in the Comparative Study of Religion and for the program of studies leading to the PhD in The Study of Religion. Undergraduate concentrators may, with the prior approval of the Director of Undergraduate Studies, 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.

All courses cross-listed from General Education are found in the Primarily for Undergraduates Cross-listed Courses sections. These courses, with some exceptions, may be taken by graduate students.

Courses numbered 10–999 are Primarily for Undergraduates; 1000–1999, For Undergraduates and Graduates; and 2000–2999, Primarily for Graduates. Courses numbered 11-20 are specially designed introductory courses to the Study of Religion, for potential concentrators and declared concentrators. Declared concentrators are required to complete one of these courses.

Courses are distributed according to their last three digits in the following sections:

000–099 General: Comparative and Methodological

100–199 Ancient Near Eastern and Israelite

200–299 Judaic

300–349 Greek, Hellenistic, and Roman



350–399 Iranian and Central Asian

400–499 Christianity

500–599 Modern Western/Religions of the Americas

600–699 Hinduism

700–799 Buddhism

800–899 Islam

900–999 African and Afro-Atlantic Religions

Tutorials in the Comparative Study of Religion

Primarily for Undergraduates

***Religion 91r. Supervised Reading and Research**

Catalog Number: 8046

Tamsin Jones

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 by Director of Undergraduate Studies required.

***Religion 97 (formerly *Religion 97a and 97b). Tutorial — Sophomore Year**

Catalog Number: 2313

Tamsin Jones

Half course (spring term). Th., 2–4.

Note: Required of concentrators.

***Religion 98a. Tutorial — Junior Year**

Catalog Number: 2832

Tamsin Jones

Half course (fall term; repeated spring term). Fall: W., 2–4.

Note: Required of concentrators.

***Religion 98b. Tutorial — Junior Year**

Catalog Number: 2922

Tamsin Jones

Half course (fall term; repeated spring term). Hours to be arranged.

Note: Required of concentrators.



***Religion 99. Tutorial — Senior Year**

Catalog Number: 6498

Tamsin Jones

Full course. Th., 3–5.

A required component of the senior year tutorial is a monthly seminar, led by the Assistant Director of Undergraduate Studies. Covers research methods and strategies in thesis writing.

Note: Required of concentrators.

Introductory Courses

Primarily for Undergraduates

[Religion 11. World Religions Today: Diaspora, Diversity, and Dialogue]

Catalog Number: 4811

Diana L. Eck

Half course (fall term). Hours to be arranged.

An introduction to five of the world's religious traditions --Hindu, Buddhist, Jewish, Christian, and Muslim-- through the voices of modern adherents and interpreters of the tradition. Readings from Gandhi, the Dalai Lama, Emil Fackenheim, Pope John Paul II, Tariq Ramadan, and others. How do people in each tradition articulate their faith in the context of globalization, pluralism, and the issues of today? What are the tensions within traditions? What are the dialogues between traditions?

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 3220.

Religion 17. Myth in History: An Introduction to Religion and to the Study of Religion

Catalog Number: 5462

Charles Hallisey (Divinity School)

Half course (fall term). M., W., 11, and an hour to be arranged.

W. C. Smith said, "the mythical can be seen as what has made human history human." Taking up this idea, this course considers myth as a basic religious phenomena; introduces four religious complexes (Ancient Greek, Christian, Islamic, and Hindu) by looking at the place of myth in each; traces the role that the category of myth has played in the academic study of religion; explores the place of myth in modern critical thinking.

Note: Offered jointly with the Divinity School as 3841.

Religion 18 (formerly Religion 1014). Realms of Power: Animals in Religion

Catalog Number: 4827

Kimberley C. Patton (Divinity School)

Half course (fall term). Th., 2-4, and hour to be arranged. EXAM GROUP: 16, 17

This introductory course will focus on the symbolism and ritual function of animals in human religious worlds. Using particular cultural histories as paradigms, we will consider themes such as cosmogony, hierarchy, magic, metamorphosis, antinomianism, prophecy, mimesis, hunting, sacrifice, and the role of fantastic creatures. Central to our work will be the evaluation of developmentalist and other theoretical models and their impact on the history of religion.

Note: Offered jointly with the Divinity School as 3812.



[Religion 42. The Christian Bible and Its Interpretations]

Catalog Number: 5870

Peter J. Gomes (Divinity School)

Half course (fall term). Hours to be arranged.

Introduction to the Christian conception of scripture from the closing of the Canon to the Fundamentalist/Modernist controversy. Topics considered include the relationship of scripture to tradition, appropriation of Hebrew scripture, exegetical and hermeneutical theories, and scripture and culture. Particular attention paid to the development of theories of scriptural authority and their social consequences within the Western Christian experience and American Protestantism.

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 1210.

Religion 45. Introduction to Christian Thought

Catalog Number: 9030

Tamsin Jones

Half course (fall term). M., W., at 1, and hour to be arranged. EXAM GROUP: 6

An introductory survey of Christian thought from its origins to the present. Attention given to tracking the intellectual trajectories of Eastern Orthodox, Catholic, and Protestant thought. Topics covered include the relationship between faith and reason, the identity and function of Jesus Christ, understandings of the self in relation to God, and different notions of community. Primary readings include Origen, Augustine, Anselm, Aquinas, Julian of Norwich, Luther, Calvin, Barth, Gutierrez, Daly, and Cone.

Religion 56. Existentialism and Religion

Catalog Number: 75076

Tamsin Jones

Half course (spring term). M., W., at 1, and hour to be arranged. EXAM GROUP: 6

In the event of the absence of God, can one still have belief? In the face of nothingness, how is one to live? Can beauty still be encountered in the aftermath of war and genocide? This course discusses various responses to these questions in philosophy, theology, literature, and film, focusing on the ideas emerging out of WWII and the Holocaust. Thinkers considered include Dostoyevsky, Sartre, de Beauvoir, Camus, Marcel, Arendt, and filmmakers, Bergman and Kurosawa.

Note: This course, when taken for a letter grade, meets the General Education requirement for Ethical Reasoning or the Core area requirement for Moral Reasoning.

Cross-listed Courses

Aesthetic and Interpretive Understanding 30 (formerly Literature and Arts A-92). Love In A Dead Language: Classical Indian Literature and Its Theorists

[Culture and Belief 12. For the Love of God and His Prophet: Religion, Literature, and the Arts in Muslim Cultures]

Culture and Belief 16 (formerly Folklore and Mythology 100). Performance, Tradition and Cultural Studies: An Introduction to Folklore and Mythology

Culture and Belief 19 (formerly Foreign Cultures 70). Understanding Islam and Contemporary Muslim Societies

[Culture and Belief 25 (formerly Religion 70). Studying Buddhism, Across Place and Time]



[Culture and Belief 28. Hindu Worlds of Art and Culture]
[Culture and Belief 31 (formerly Philosophy 19). Saints, Heretics, and Atheists: An Historical Introduction to the Philosophy of Religion]
[Culture and Belief 32. Back Roads to Far Places: Literature of Journey and Quest]
[Culture and Belief 36. Religion and Its Future]
[Ethical Reasoning 17 (formerly Moral Reasoning 76). Comparative Religious Ethics]
[*Freshman Seminar 37v. Muslim Voices in Contemporary World Literatures](#)
[Societies of the World 22. Asia in the Making of the Modern World](#)

General: Comparative and Methodological

Primarily for Undergraduates

Cross-listed Courses

[Culture and Belief 12. For the Love of God and His Prophet: Religion, Literature, and the Arts in Muslim Cultures]
[Culture and Belief 13. The Contested Bible: The Sacred-Secular Dance](#)
[Culture and Belief 14. Human Being and the Sacred in the History of the West]
[Culture and Belief 23 (formerly Literature and Arts C-70). From the Hebrew Bible to Judaism, From the Old Testament to Christianity]
[Culture and Belief 28. Hindu Worlds of Art and Culture]
[Culture and Belief 29 \(formerly Humanities 12\). "Strange Mutations": Wonder, Faith, Skepticism, and Disbelief in Western Antiquity and the Renaissance](#)
[Culture and Belief 32. Back Roads to Far Places: Literature of Journey and Quest]
[Culture and Belief 36. Religion and Its Future]
[Culture and Belief 39 \(formerly Literature and Arts A-93\). The Hebrew Bible](#)
[Ethical Reasoning 17 (formerly Moral Reasoning 76). Comparative Religious Ethics]
[Ethical Reasoning 20 (formerly Humanities 11). Self, Serenity, and Vulnerability: East and West]
[Ethical Reasoning 26. The Ethics of Atheism: Marx, Nietzsche, Freud - \(New Course\)](#)
[*Folklore and Mythology 98a. History and Theory of Folklore Methodology](#)
[*History 83c. Care of the Soul](#)
[*History 83f. Political Theology - \(New Course\)](#)
[Societies of the World 36 \(formerly Historical Study A-16\). Modern South Asia in Global History](#)
[United States in the World 27. Religion and American Society: Global Traditions in a Changing Culture](#)
[*United States in the World 32 \(formerly Religion 1007\). The World's Religions in Multicultural America: Case Studies in Religious Pluralism](#)

For Undergraduates and Graduates

Religion 1001. Religion and Ethnography

Catalog Number: 9270

Marla F. Frederick



Half course (spring term). M., 1–3. EXAM GROUP: 6, 7

This course explores the use of ethnographic methods by anthropologists and scholars of religion as a means of interpreting the lived religious experiences of everyday people. Students will read contemporary ethnographies and conduct their own ethnographic research in order to discover how participant observation, interviews, and other qualitative methods allow scholars to make sense of the very real religious sensibilities of worshipers, while simultaneously bringing to bear their own issues of subjectivity as ethnographers.

Religion 1005. World Religions in Boston: Seminar

Catalog Number: 2655 Enrollment: Limited. Application online.

Diana L. Eck

Half course (fall term). Tu., 1–3. EXAM GROUP: 15, 16

Investigates religious traditions of the world in the dynamic urban context of today, focusing on the presence of these traditions in the increasingly complex and diverse religious life of the Boston area. A review of the religious histories of greater Boston. Visits to Hindu, Sikh, Muslim, and Buddhist centers. Consideration of the interfaith encounters, connections, and tensions with Christian and Jewish communities. Each student undertakes research on a particular community or issue in the Boston cosmopolis.

Note: Expected to be given again in 2012-13. Offered jointly with the Divinity School as 3901.

Religion 1006. Religion and Literature: An Introduction - (New Course)

Catalog Number: 61121

Anne E. Monius (Divinity School) and Stephanie A. Paulsell (Divinity School)

Half course (fall term). Tu., Th., at 10 and hour to be arranged. EXAM GROUP: 12

This course introduces students to the cross-cultural study of religion and literature, considering both the literary dimensions of religious texts and the ways in which literature shapes its readers religiously, spiritually, and morally.

Note: Offered jointly with the Divinity School as 3162.

Religion 1008. Theories and Methods in the Study of Religion - (New Course)

Catalog Number: 78933 Enrollment: May only be taken for a letter grade.

Francis X. Clooney (Divinity School) and Stephanie A. Paulsell (Divinity School)

Half course (spring term). W., 1–3.

This course, required of all first-year MDiv students but open to all, serves as an introduction to various approaches to the academic study of religion, from the anthropological and sociological to the philosophical and theological.

Note: Offered jointly with the Divinity School as 4515.

Religion 1009. Religion, Gender, and Politics in Transnational Perspective

Catalog Number: 9774

Leila N. Ahmed (Divinity School) and Ann D. Braude (Divinity School)

Half course (spring term). W., 1–4. EXAM GROUP: 6, 7, 8

The use of gender as a category of analysis has transformed the study of religion. This course will explore a range of topics in women's studies across a range of religious contexts. Members of the faculty will introduce issues of women and gender from their specific disciplinary and



theoretical perspectives.

Note: Expected to be given again in 2012-13. Offered jointly with Divinity school as 3223.

Religion 1016. The Shock of the Old: Conference Course - (New Course)

Catalog Number: 12304 Enrollment: Limited to 30.

Kimberley C. Patton (Divinity School) and Michael D. Jackson (Divinity School)

Half course (spring term). W., 2-4.

This course is about the impact of the past on the 'present' of historical time. Through the disciplinary lenses of anthropology and archaeology, we will explore how different peoples have encountered, imagined, and appropriated earlier times - historical, prehistorical, mythical, ancestral, biographical, material and ideological. Key topics include social time, memory, human temporality, the status of the dead, eternal recurrence, practices of transformation and rebirth, and the modern West's relationship to the classical world.

Note: Offered jointly with the Divinity School as 3253. Application for enrollment must be completed at first class meeting.

Religion 1025a. Anthropology of "the Religious" Part 1: Theory - (New Course)

Catalog Number: 57625

Aisha Mahina Beliso-De Jesus (Divinity School)

Half course (fall term). Th., 12-2 and hour to be arranged.

Conducting fieldwork with groups and people based on their religious/spiritual beliefs requires a complex understanding as well as critical knowledge of both the theory and methods of the "field research" process. The first semester will focus primarily on theoretical questions/problems in the study of religion in anthropology, including what is a field site, how is it constituted, and how do we understand our own research and theory in relation to other academic projects?

Note: Expected to be given again in 2012-13. Offered jointly with the Divinity School as 3103.

***Religion 1025b. Anthropology of "the Religious" Part 2: Methods - (New Course)**

Catalog Number: 72732

Aisha Mahina Beliso-De Jesus (Divinity School)

Half course (spring term). W., 1-4.

This year-long course will provide students with an in-depth and critical survey of theory and methodological approaches towards an anthropology of "the religious." The second semester is a methodological workshop, where students will be required to conduct method-intensive weekly projects. Students will be required to think about what their research means to the communities they intend to work with as well as questions of positionality, the divide between participant/observer, new forms of research methods and other problematics of research.

Note: Expected to be given again in 2012-13. Offered jointly with the Divinity School as 3104.

Prerequisite: Satisfactory completion of Religion 1025a.

Religion 1026. Introduction to Justice and Rights - (New Course)

Catalog Number: 69236

Francis Fiorenza (Divinity School)

Half course (fall term). W., 1-4 and hour to be arranged.

This course seeks to give an introduction to contemporary discussions about justice, human rights, and religion. It will survey the conceptions of rights within political theology and within



contemporary theories of justice. Special attention will be given to the work of Rawls, Habermas, Nussbaum, Sen, Walzer, Sandel, Motlmann, Woltersdorf, and Schmitt. It will seek to show how a conception of human rights relates to religion with the framework of a discourse ethics.

Note: Offered jointly with the Divinity School as 2801.

***Religion 1027. Weeping in the Religious Imagination: Seminar**

Catalog Number: 4305 Enrollment: Limited to 15.

Kimberley C. Patton (Divinity School)

Half course (spring term). Th., 2–4.

Among the earliest human expressions of distress, tears remain a profound existential signifier at all stages of life, in particular in response to danger, loss, or despair. Weeping emerges in religious ritual as both remembrance and catharsis; myth shows how tears of surrender can instead transform. Traditions studied will include ancient Greek, classical Aztec, Islamic, Yoruba, Buddhist, Hindu, Hassidic, and Eastern Christian. We will also read selected sociological and theological works on weeping.

Note: Application for enrollment must be completed at first class meeting. Offered jointly with the Divinity School as 3821.

Religion 1031. Foucault and Religion - (New Course)

Catalog Number: 42518

Mark D. Jordan (Divinity School)

Half course (fall term). Th., 2-4 and hour to be arranged.

This course will explore Foucault's relations to religions and the religious in some of the texts that explicitly treat those topics and many others that contend with them ironically or silently or even wistfully.

Note: Offered jointly with the Divinity School as 2620.

Religion 1040 (Introduction to Comparative Theology and Theology of Religions). Theology in an Interreligious Perspective

Catalog Number: 3278

Francis X. Clooney (Divinity School)

Half course (fall term). Tu., Th., 10–11:30.

This course examines the processes by which theologians study theologies across religious boundaries, bringing this learning into dialogue with home traditions, by careful comparison, dialogical reflection, and, ideally, a well-informed theological understanding of what it means to belong to one tradition and learn from another. Readings include (by way of example) Hindu primary texts and texts from the Roman Catholic traditions, but students are encouraged to bring their knowledge of and interest in other traditions to the discussions.

Note: Offered jointly with the Divinity School as 3101.

Prerequisite: Prior knowledge of either tradition, though desirable, is not required.

[Religion 1043. The Self Writing the Self: Autobiography and Religion]

Catalog Number: 27714 Enrollment: Limited to 40.

Janet Gyatso (Divinity School)

Half course (spring term). Hours to be arranged.

This course explores selfhood, religion, and the writing of autobiography. What do



autobiographies tell us about the relationship of subjectivity to religious truth? To whom are autobiographers telling their self-stories, and why? What constitutes conversion, enlightenment, or self-consciousness? Autobiographies studied include those by Augustine, Teresa of Avila, a Tibetan hermitess, a Chinese-American novelist, a Venetian Rabbi, an American freed slave, and James Joyce. Students will also keep autobiographical journals.

Note: Expected to be given in 2012–13. Offered jointly with the Divinity School as 3721.

[Religion 1059. God, Hindu and Christian]

Catalog Number: 7091

Francis X. Clooney (Divinity School)

Half course (fall term). Hours to be arranged.

This course reflects on God in historical, theological, and spiritual terms, attending to classical Christian and Hindu traditions. Issues include: the definition of "God;" proof's for God's existence; God's relationship to the world, humans; divine embodiment; grace, revelation, way of knowing God. Treated also is the reflexive question: how might comparative study change our understanding of God? Paired with Hindu Goddesses and the Virgin Mary, this course does not specifically treat gender-related issues.

Note: Expected to be given in 2012–13. Offered jointly with the Divinity School as 3751.

Religion 1063. South Asian Religious Aesthetics: Seminar

Catalog Number: 8607 Enrollment: Limited to 15.

Anne E. Monius (Divinity School)

Half course (spring term). M., 4–6.

This seminar offers an intensive examination of South Asian theories of aesthetics and their relevance for understanding Hindu, Buddhist, and Jain discourses of ethics, literature, and theology.

Note: Offered jointly with the Divinity School as 3925.

Prerequisite: Prior coursework in South Asian religions.

Cross-listed Courses

African and African American Studies 187. African Religions

Anthropology 1060. Archaeological Science

[Anthropology 1630. Spirits, People, Place and Things: The Anthropology of Religion]

Primarily for Graduates

***Religion 2001. The History of the Study of Religion**

Catalog Number: 0644

Leigh E. Schmidt (Divinity School)

Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17

An examination of the study of religion from early modernity to the present, with attention to key thinkers, methods, and theories.

Note: Limited to first-year doctoral students. Offered jointly with the Divinity School as 4599.



***Religion 2002. Contemporary Conversations in the Study of Religion: Seminar**

Catalog Number: 0803

Anne E. Monius (Divinity School)

Half course (spring term). Tu., 2–4.

An engagement with the theoretical and methodological issues that scholars of religion deem to be the most urgent and compelling in the discipline today, across the various research areas.

Note: Limited to second-year doctoral students in the Study of Religion.

Religion 2030. Thinking About History in South Asia: Seminar

Catalog Number: 0070 Enrollment: Limited to 15.

Anne E. Monius (Divinity School)

Half course (fall term). Tu., 2–4.

This seminar offers an intensive examination of Euro-American and South Asian approaches to time and history and considers their importance for the study of South Asian religions.

Note: Limited to doctoral students and advanced masters-level students. Offered jointly with Divinity School as 3930.

[Religion 2045 (formerly Religion 2841). Orthodoxy: Religion, Truth, and Authority: Seminar]

Catalog Number: 5529 Enrollment: primarily for graduates

M. Shahab Ahmed

Half course (fall term). Hours to be arranged.

Orthodoxy is defined as “truth or sound belief according to an authoritative norm” (*Encyclopaedia of Religion*). Focuses comparative examination of the historical, social, institutional, and discursive constitution of orthodoxy in Buddhism, Christianity, Confucianism, Islam, and Judaism.

Note: Expected to be given in 2011–12. Open to advanced undergraduates. Not open to auditors. Offered jointly with the Divinity School as 3979.

Religion 2070. Topics in Modern Japanese Religions

Catalog Number: 85437 Enrollment: Limited to 12.

Helen Hardacre

Half course (fall term). W., 4–6.

This graduate seminar examines significant topics shaping Japanese religious life from the Meiji Restoration of 1868 to the present. Each year’s offering will focus on reading and discussion of relevant primary texts and secondary literature.

Note: Expected to be given annually. May be repeated for credit. Offered jointly with the Divinity School as 3961

Prerequisite: Modern Japanese

Topic for 2010: An introduction to the study of Japanese folk religion, popular religious life carried on largely outside the institutional frameworks of Buddhism, Shinto, and other religious institutions. We will investigate the idea of folk religion and its viability as a field of study within Japanese religions and within contemporary society. In its first half, the course examines the traditional rubrics and topics in the literature on Japanese folk religion. In the second half, the course turns to changes in folk religious life brought about through urbanization, domestic



tourism, and the appropriation of folk religious motifs by such contemporary media forms as television, anime and manga.

Cross-listed Courses

[Indian Studies 218. Special Topics in Indian Philosophy]

Graduate Courses of Reading and Research

***Religion 3005. Doctoral Colloquium in Religion, Gender, and Culture**

Catalog Number: 8016

Leila N. Ahmed (Divinity School) 3308

Half course (spring term). Hours to be arranged.

The colloquium will explore key-topics and works in women's/gender/feminist studies in religion.

Note: This colloquium is required for all pre-Generals doctoral students as well as for those admitted as ThM students in Religion, Gender, and Culture. Doctoral students from other departments or BTI schools as well as advanced master's level students who intend to apply to the RGC program or plan to major in this field of study should contact the instructor in advance. Offered jointly with the Divinity School as 2690.

Ancient Near Eastern and Israelite

Primarily for Undergraduates

Cross-listed Courses

[Literature and Arts A-70. The Book of Job and the Joban Tradition](#)

For Undergraduates and Graduates

Cross-listed Courses

[Ancient Near East 102. Introduction to Mesopotamian Religion](#)

[Ancient Near East 117. Biblical Archaeology]

[Ancient Near East 120 \(formerly Ancient Near East 120a\). Introduction to the Hebrew Scriptures](#)

[Early Iranian Civilizations 102. Old Iranian Religion/Zoroastrianism](#)

[Early Iranian Civilizations 103. Manicheism](#)

[Sumerian 146. Sumerian Religious Literature](#)

Primarily for Graduates

Cross-listed Courses

[*Comparative Literature 211. Mysticism and Literature: Seminar](#)



Judaic

Primarily for Undergraduates

Cross-listed Courses

[Aesthetic and Interpretive Understanding 29 (formerly Literature and Arts A-48). Moral Imagination in Modern Jewish Literature]

[Culture and Belief 23 (formerly Literature and Arts C-70). From the Hebrew Bible to Judaism, From the Old Testament to Christianity]

[Culture and Belief 27 \(formerly Jewish Studies 55\). Among the Nations: Jewish History in Pagan, Christian and Muslim Context](#)

[Culture and Belief 39 \(formerly Literature and Arts A-93\). The Hebrew Bible Literature and Arts A-70. The Book of Job and the Joban Tradition](#)

[Societies of the World 35. Conditional Equality: The Case of the Jews of Europe in Modern Times - \(New Course\)](#)

For Undergraduates and Graduates

[Religion 1212a. Judaism: The Liturgical Year](#)

Catalog Number: 5679

Jon D. Levenson (Divinity School)

Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

An introduction to the Jewish tradition through an examination of its liturgical calendar. The ancient Near Eastern affinities and biblical forms of the Jewish holidays; the observance of the holidays in rabbinic law, their characteristic themes as developed in rabbinic non-legal literature, their special biblical readings, the evolution of the holidays over the centuries, contemporary theological reflection upon them. Emphasis on classic texts, focus on theological and literary issues.

Note: Offered jointly with the Divinity School as 1667a.

[Religion 1212b. Judaism: The Liturgical Year](#)

Catalog Number: 8074

Jon D. Levenson (Divinity School)

Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

A continuation of Religion 1212a.

Note: Offered jointly with the Divinity School as 1667b.

Prerequisite: Religion 1212a.

[Religion 1231. Rabbinic Ethics] - (New Course)

Catalog Number: 90954

Jonathan Schofer (Divinity School)

Half course (fall term). Hours to be arranged.

Examines major works of rabbinic ethics and their resonances in the broader realm of rabbinic literature and culture. The center of the course will be two sources: The Fathers and The Fathers According to Rabbi Nathan. We will also read material from the other ethical collections as well



as the Babylonian Talmud. Readings are in English translation. If sufficient student interest, a section for reading sources in original languages will be created.

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 3791.

Cross-listed Courses

[Jewish Studies 111. Modern Jewish Thought]

Greek, Hellenistic, Roman

Primarily for Undergraduates

Cross-listed Courses

Culture and Belief 22. The Heroic and the Anti-Heroic in Classical Greek Civilization
[Culture and Belief 35. Classical Mythology]

For Undergraduates and Graduates

[Religion 1315. Prophecy, Ecstasy, and Dreams in Early Christian History]

Catalog Number: 7435

Laura S. Nasrallah (Divinity School)

Half course (spring term). Hours to be arranged.

In the Graeco-Roman world, prophecies, ecstasies, and dreams were considered important ways in which the divine communicated with humans. We explore the history of early Christian debates over prophecy and ecstasy and place them within a broader context. We read various philosophical, theological, novelistic, and political texts from the first century BCE through the fourth century CE. We address questions of how these debates over prophecy and ecstasy connect with issues of power, gender, anthropology, socioeconomics, and religious identity.

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 1546.

Primarily for Graduates

Religion 2348ab. Archaeology and the World of the New Testament: Seminar

Catalog Number: 4069 Enrollment: Limited to 12.

Laura S. Nasrallah (Divinity School)

Full course (spring term). Th., 11:30-2, and field trips to be arranged.

The first half of the course introduces students to archaeological data from the Graeco-Roman world (inscriptions, architecture, sculpture, coins). The second half consists of seminars in Greece and Turkey during May and on-site meetings with archaeologists.

Note: 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. Undergraduates and graduate students welcome. Permission of the instructor required. Course may be divided with permission of instructor.



Christianity

For additional courses on Christian Studies, see the catalog of the Divinity School.

Primarily for Undergraduates

Cross-listed Courses

[Culture and Belief 31 (formerly Philosophy 19). Saints, Heretics, and Atheists: An Historical Introduction to the Philosophy of Religion]

[Culture and Belief 38 (formerly Literature and Arts C-28). Icon, Ritual, Text: Reading the Culture of Medieval Rus']

[Culture and Belief 39 \(formerly Literature and Arts A-93\). The Hebrew Bible](#)

[Historical Study B-18. The Protestant Reformation](#)

[Literature and Arts A-70. The Book of Job and the Joban Tradition](#)

For Undergraduates and Graduates

[Religion 1400. Introduction to the New Testament: History and Interpretation](#)

Catalog Number: 4486

Elisabeth Schüssler Fiorenza (Divinity School)

Half course (spring term). W., 1-3 and hour to be arranged.

This course examines historical-critical approaches that set New Testament texts within their first and second-century contexts, pays special attention to archaeological materials which aid our understanding of the diverse world of the Roman Empire from which these texts emerged, and considers how and why these particular texts came to be a canon. Students will also consider the vibrant and controversial contemporary contexts in which they and others interpret the New Testament.

Note: Offered jointly with the Divinity School as 1202.

[Religion 1401. Early Christian Thought 1: The Greek Tradition](#)

Catalog Number: 4950

Charles Stang (Divinity School)

Half course (fall term). Tu., Th., 10-11:30, and an hour to be arranged.

This introductory course will focus on the major Greek authors of the late antique Christian East (third through eighth centuries). Authors will include Origen, Athanasius, Basil of Caesarea, Gregory of Nazianzus, Gregory of Nyssa, Evagrius of Pontus, Cyril of Alexandria, Pseudo-Dionysius the Areopagite, Maximus the Confessor, and John of Damascus.

Note: Expected to be given again in 2012-13. Offered jointly with the Divinity School as 1749.

[\[Religion 1402. Early Christian Thought 2: The Latin Tradition\]](#)

Catalog Number: 2577

Charles Stang (Divinity School)

Half course (spring term). Hours to be arranged.

This introductory course will focus on the major Latin authors of the late antique Christian West



(second through ninth centuries). Authors will include Tertullian, Ambrose, Jerome, Augustine, Cassian, Gregory the Great, Boethius, and John Scottus Eriugena.

Note: Expected to be given in 2012–13. Offered jointly with the Divinity School as 1750.

Religion 1403. The Mystical Theology of Dionysius the Areopagite

Catalog Number: 4823 Enrollment: Limited to 15.

Charles Stang (Divinity School)

Half course (spring term). Th., 4–6. EXAM GROUP: 18

A close reading of Pseudo Dionysius Areopagite, the early sixth century theologian who is widely regarded as the foremost spokesman of the apophatic or negative mystical tradition. Presumes knowledge of Greek.

Note: Offered jointly with the Divinity School as 1748.

[Religion 1404. Early Christianity in the Roman Empire]

Catalog Number: 9800 Enrollment: Field trips will be scheduled in addition to regular course meeting times.

Laura S. Nasrallah (Divinity School)

Half course (fall term). Hours to be arranged, and hour to be arranged.

We shall read New Testament and early Christian literature to explore topics such as Paul and empire, early Christian apologetics, and martyrdom. These will in turn be explored in relation to the literature and especially the art and archaeology of the Roman Empire. Special focus will be given to materials of the first and second centuries CE. Key themes will include gender, colonialism, violence, spectacle, the body, justice, and ancient definitions of religion and piety.

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 1518.

Religion 1406. The Gospel of Matthew - (New Course)

Catalog Number: 81638

Giovanni Battista Bazzana (Divinity School)

Half course (spring term). M., W., at 10, and an hour to be arranged.

The course will be devoted to a reading and interpretation of the Gospel of Matthew. The exegetical discussion of the text of Matthew will focus on textual, literary, historical, and theological matters employing a number of different hermeneutical approaches.

Note: Offered jointly with the Divinity School as 1549.

Religion 1407. Thomas Literature in Early Christianity - (New Course)

Catalog Number: 44764

Charles Stang (Divinity School) and Giovanni Battista Bazzana (Divinity School)

Half course (fall term). Th., 4–6.

This course will engage in a close reading of the early Christian writings associated with the apostle Thomas, including the Gospel of Thomas, the Acts of Thomas, and the book of Thomas the Contender.

Note: Offered jointly with the Divinity School as 1747.

Prerequisite: Knowledge of Greek, Coptic, or Syriac is required.

Religion 1410. Women, Sex, and Gender in Ancient Christianity

Catalog Number: 9539



Karen L. King (Divinity School)

Half course (fall term). Tu., 2-4, and hour to be arranged.

The course will examine early Christian practices and controversies around sex and gender, including women's leadership roles, sexual differentiation, and gender performance.

Note: Offered jointly with the Divinity school as 1505.

[Religion 1414. Gospel Stories of Wo/men]

Catalog Number: 6902

Elisabeth Schüssler Fiorenza (Divinity School)

Half course (spring term). Hours to be arranged.

The course will introduce a critical feminist rhetorical reading of "gospel" stories about wo/men in order to assess whether they are "good news" for wo/men. Special attention will be given to the significance of social locations, critical methods, and historical imagination for the interpretation and significance of these stories about Jewish wo/men for contemporary religious self-understandings and ministerial praxis. Lectures, group discussions, and group projects seek to foster a participatory, democratic style of learning.

Note: Expected to be given in 2012–13. Offered jointly with the Divinity School as 1503.

[Religion 1416. Feminist Biblical Interpretation]

Catalog Number: 3002

Elisabeth Schüssler Fiorenza (Divinity School)

Half course (fall term). Hours to be arranged.

A basic introduction to the emerging field of feminist biblical studies. We discuss different hermeneutical approaches, methods of interpretation, and theoretical perspectives. Special attention is given to historical interpretation and the significance of feminist hermeneutics for contemporary theological reflection and education for ministry. Lectures, group discussions, and presentations seek to foster a participatory style of learning.

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 1504.

Religion 1417. Religion and Politics in Early Christianity

Catalog Number: 0071

Elisabeth Schüssler Fiorenza (Divinity School)

Half course (fall term). Tu., 12–2, with a section meeting Tu., 11-12.

This course explores the political rhetoric of Paul, the Gospels and other Early Christian writings in the context of Greco-roman and Jewish imperial and democratic institutions. Special attention will be given to Scripture and the rhetoric of empire in shaping the religious ethos of Christianity and the Western world.

Note: Offered jointly with the Divinity School as 1502.

Religion 1419. Jesus of Nazareth and the Gospels

Catalog Number: 9164

Helmut H. Koester (Divinity School)

Half course (fall term). Th., 2-4, and hour to be arranged. EXAM GROUP: 16, 17

An investigation of the Gospels of the New Testament (Matthew, Mark, Luke, John) and other ancient Christian Gospel literature (Gospel of Thomas, Dialogue of the Savior); discussion of the developments from the oral traditions about Jesus to their written fixation and of the theological



and communal concerns that influenced this process. Discussion of the question of the “historical Jesus.”

Note: Offered jointly with the Divinity School as 1500. Section meetings will be Wednesday 1-2 and Thursday 1-2.

[Religion 1422. History of the Exegesis and the Reception of the Gospel of Luke]

Catalog Number: 0072 Enrollment: Limited to 15.

Kevin J. Madigan (Divinity School)

Half course (fall term). Hours to be arranged.

A study of the exegesis and reception of the Gospel of Luke in history, stressing the interpretation of the Gospel in the period ca. 200–1600. After studying Luke in its original context, the seminar will turn to commentaries, sermons, and artistic representations of all or parts of the Gospel, as well as to hermeneutical theory from the ancient world.

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 1872.

Prerequisite: A major research language (Latin, Greek, or Syriac) helpful, but not required.

Religion 1427. Orthodoxy and Heresy in Ancient Christianity

Catalog Number: 3574

Karen L. King (Divinity School)

Half course (spring term). Tu., 1-3, and hour to be arranged.

An examination of the dynamics of early Christian identity formation, including the development of discourses of orthodoxy and heresy, practices of interpreting Scripture, selected theological disputes, sex/gender, and categories of religious identity. The course will focus on reading the primary literature, with special attention to types later deemed heretical (including, *The Gospel of Thomas*, *The Gospel of Mary*, *The Gospel of Judas*, *The Gospel of Truth*, and *The Secret Revelation of John*).

Note: Offered jointly with the Divinity School as 1700.

Prerequisite: Introduction to the New Testament or History of Ancient Christianity, or the equivalent.

[Religion 1428. History of the Christian Exegesis and Reception of the Book of Genesis: Seminar]

Catalog Number: 9337 Enrollment: Limited to 15.

Kevin J. Madigan (Divinity School)

Half course (fall term). Hours to be arranged.

A study of the exegesis and reception of the Gospel of Genesis in history, stressing the interpretation of the Gospel in the period ca. 200–1600. After studying Genesis in its original context, the seminar will turn to commentaries, sermons and artistic representations of all or parts of the Gospel, as well to the hermeneutical theory from the ancient world.

Note: Expected to be given in 2012–13. Offered jointly with the Divinity School as 2210.

Prerequisite: One major research language (Latin, Greek, or Syriac) would be helpful but is not required.

[Religion 1429. Augustine and His Heretics]

Catalog Number: 59969 Enrollment: Limited to 15.

Charles Stang (Divinity School)



Half course (spring term). Hours to be arranged.

This course will survey Augustine of Hippo's theological career through the lens of his encounters with three heretical communities of Roman North Africa: Manichaeism, Donatism, and Pelagianism. Particular attention will be paid to following themes: evil, freedom, the will, and selfhood.

Note: Expected to be given in 2012–13. Offered jointly with the Divinity School as 1752.

[Religion 1431. Neoplatonism I: Plotinus]

Catalog Number: 13857 Enrollment: Limited to 15.

Charles Stang (Divinity School)

Half course (spring term). Hours to be arranged.

A close reading of the *Enneads* of Plotinus, the 3rd century Greek philosopher widely regarded as the founder of "Neoplatonism." Attention will be given to the development of his views over time, based largely on the composition chronology given by his student Porphyry.

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 1757.

[Religion 1434. History of Western Christianity, 150-1100]

Catalog Number: 5783

Kevin J. Madigan (Divinity School)

Half course (fall term). Hours to be arranged.

Church and society in western Europe from the fourth through the twelfth century. Early and high medieval Christianity in social and cultural context, with attention to popular religious belief and behavior as well as to the institutional church and its leaders.

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 2230.

[Religion 1435. The History and Practice of Lived Religion]

Catalog Number: 79773 Enrollment: Limited to 25.

R. Marie Griffith (Divinity School)

Half course (fall term). Hours to be arranged.

Bringing together historical and ethnographic perspectives in a series of case studies, this course focuses on the lived practices that make up religion in the US, both within and beyond institutions. Attention to prayer and healing, cooking and eating, fasting and bodily discipline, gender performance, caring for others, and engaging nature. Reading of primary as well as secondary sources, supplemented by discussions and occasional lectures.

Note: Expected to be given in 2012–13. Offered jointly with the Divinity School as 2269.

Religion 1436. Bodies of Christ: Ancient, Medieval and Contemporary - (New Course)

Catalog Number: 47752

Cameron Elliot Partridge

Half course (spring term). W., 4–6.

"Who do people say that I am?" From transfiguration, passion and resurrection narratives of the New Testament, to early Christological conflicts, to medieval refractions of these and other Christological traditions, Christian thought has generated a vast body of work on Jesus the Christ. This course engages this body through close readings of primary texts in translation as well as secondary analytical sources, and invites students consider how they would construct



and/or deconstruct Christologies in their own contexts.

Note: Offered jointly with the Divinity School as 1760.

[Religion 1437. History of Western Christianity: 1100–1500]

Catalog Number: 5997

Kevin J. Madigan (Divinity School)

Half course (spring term). Hours to be arranged.

Church and society in western Europe during the high and late Middle Ages. Particular attention will be paid to theological and institutional change and continuity and to popular religious movements.

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 2250.

[Religion 1446. Recent Trends in Medieval Ecclesiastical Historiography]

Catalog Number: 90974 Enrollment: Limited to 15.

Kevin J. Madigan (Divinity School)

Half course (spring term). Hours to be arranged.

A analysis of recent work in medieval Christianity, focusing on martyrdom.

Note: Expected to be given in 2012–13. Offered jointly with the Divinity School as 2201.

[Religion 1450. History of Christian Thought: The Medieval West]

Catalog Number: 8878

Amy Hollywood (Divinity School)

Half course (fall term). Hours to be arranged.

The course will survey the main features of Christian theology from the 11th through the 15th centuries. We will focus on the particular genres, modes of argumentation, questions, and goals attendant on theology as it emerges in multiple contexts within the medieval West.

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 2629.

[Religion 1455. Introduction to Theology] - (New Course)

Catalog Number: 39432

Amy Hollywood (Divinity School)

Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17

The course will provide an introduction to Christian theology through the careful reading of selected texts from across the tradition. We will explore what theology is, the variety of genres in which theology has been written and enacted, and some of the questions that persistently recur within Western Christianity.

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 2400.

Religion 1459. Popular Religion and Popular Culture in Europe and America, 1500-1830 - (New Course)

Catalog Number: 38563 Enrollment: Limited to 20.

David D. Hall (Divinity School)

Half course (spring term). M., 2–4.

Attention and traditions, movements, and cultural practices, from the sixteenth-century Reformations and extending through the emergence of popular evangelicalism in the eighteenth and early nineteenth; particular topics to include literacy and cheap print, witch-hunting, and



vision-centered religion.

Note: Offered jointly with the Divinity School as 2347.

[*Religion 1463. Evangelical Conversion and Disenchantment Narratives]

Catalog Number: 36161 Enrollment: Limited to 15.

David Neil Hempton (Divinity School)

Half course (fall term). Hours to be arranged.

This seminar will concentrate on processes and discourses of religious conversion and disenchantment within the Evangelical tradition from the early eighteenth to the later twentieth centuries. Questions addressed will include what was the appeal of Evangelical religion and spirituality to different social groups, how were religious conversions understood and expressed, and what factors promoted subsequent disenchantment? We will examine conversion narratives, various expressions of disenchantment (in art and literature), and some examples of reconversion. By exploring these categories, the course hopes to shed light on wider themes such as the emergence of a concept of self in the early modern period, and possible causes of secularization in later periods.

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 2357.

[Religion 1464. The Rise of the Holiness Traditions: Pietism, Methodism, and Pentecostalism]

Catalog Number: 14853

David Neil Hempton (Divinity School)

Half course (fall term). Hours to be arranged.

This course examines one of the most dynamic traditions of Protestant Christianity since the Reformation. The course will investigate the rise of Pietism and Methodism in Europe and the North Atlantic world in the early modern period, and the growth of Pentecostalism in the United States and beyond in the twentieth century. Particular attention will be paid to the social, economic, and political environments that facilitated growth as well as to the most important personalities and theological characteristics of these fast-growing movements.

Note: Expected to be given in 2012–13. Offered jointly with the Divinity School as 2359.

[Religion 1466. The Q Riddle] - (New Course)

Catalog Number: 36317

Giovanni Battista Bazzana (Divinity School)

Half course (spring term). Hours to be arranged.

The hypothetical source called "Q" has generated in the last 100 years of New Testament research hot debates and exciting confrontations. The course will focus on the historical inquiry that produced the Q hypothesis and will analyze what role this hypothesis has played in cultural and theological discussions in the academic world and outside of it.

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 1550.

Religion 1471. Christian Ethics, Persuasion, and Power I - (New Course)

Catalog Number: 48719

Mark D. Jordan (Divinity School)

Half course (fall term). W., 2-4, and an hour to be arranged.

Early Christians wrote their ethical teaching not only in response to existing religious law or rite,



but in competition with philosophical programs for soul-shaping. The religious traditions and the philosophic schools alike wanted to discipline bodily actions and passions, but even more to elicit certain roles or characters. This course reads some ancient philosophical examples of ethical persuasion before turning to Christian texts that want to surpass them in power to shape lives.

Note: Offered jointly with the Divinity School as 2393.

Religion 1472. The Ethical and Religious Thought of Martin Luther King, Jr.

Catalog Number: 8761

Preston N. Williams (Divinity School)

Half course (spring term). M., 4–6. EXAM GROUP: 9

A study of the life, thought, and actions of Martin Luther King, Jr. An ethical analysis of his primary concepts, ideas, and strategies based upon a reading and discussion of his writings and their sources.

Note: Offered jointly with the Divinity School as 2721.

[Religion 1473. Christian Sexual Ethics]

Catalog Number: 49022 Enrollment: Limited to 15.

Mark D. Jordan (Divinity School)

Half course (fall term). Hours to be arranged.

What accounts for the prominence of sexual issues in contemporary Christian debates? Is this something new in church history? Is it peculiar to Christian thinking or does it arise from other cultural forces? Is it helpful for Christian ethics to talk so much about sex? This course will take up these questions first in some historical constructions of sexual topics, then in the rapid changes of the last hundred years.

Note: Expected to be given in 2012–13. Offered jointly with the Divinity School as 2710.

Religion 1474. Christian Ethics, Persuasion, and Power II

Catalog Number: 64129

Mark D. Jordan (Divinity School)

Half course (spring term). Th., 12–2.

Whatever else it might be, European ‘modernity’ is a transformation in Christian projects for ethics. Settled forms of ethical teaching change under the pressures of polemic, skepticism, and specialization or reduction. The course will trace some of the transformation and the reactions to it in a series of primary texts from Luther to Nietzsche.

Note: Expected to be given in subsequent spring semesters of odd-numbered years. Offered jointly with the Divinity School as 2394.

Religion 1476. Sex and Sexuality in the Evangelical Tradition: Seminar

Catalog Number: 68269 Enrollment: Limited to 15.

R. Marie Griffith (Divinity School)

Half course (spring term). W., 2–4.

There is much talk about the Christian Right’s focus on sex, but what about other strands within the evangelical tradition? In this course we read a wide range of primary sources from the 18th, 19th, and 20th centuries to chart a longer and more complicated trajectory of diverse evangelical views about sex, gender, and sexuality. Texts include tracts, sermons, diaries, conversion



narratives, devotional periodicals, memoirs, ex-gay and ex-ex-gay testimonies, and visual images as well as popular texts on chastity, marriage and pornography.

Note: Offered jointly with the Divinity School as 2352.

Religion 1478. Spirit - (New Course)

Catalog Number: 51248

Mayra de Lourdes Rivera Rivera

Half course (spring term). Tu., 10–12. EXAM GROUP: 12, 13

After surveying classical Christian texts on the Spirit, this course will engage contemporary works focusing on spirit as it appears in contemporary writing in and beyond Christianity, rethinking relationships between the human and the non-human world.

Note: Offered jointly with the Divinity School as 2425.

***Religion 1479. Theopoetics and Theopolitics - (New Course)**

Catalog Number: 66355 Enrollment: Limited to 15.

Mayra de Lourdes Rivera Rivera

Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17

The course will explore Christian approaches to God-talk that emphasize intellectual discourse as well as creative practice, engaging contemporary works to theorize relationships between language, world, divine, the mystical and political dimensions of religious language.

Note: Offered jointly with the Divinity School 2457.

[Religion 1486. Feminism and Global Christianity]

Catalog Number: 23378 Enrollment: Limited to 18.

Susan Abraham (Divinity School)

Half course (spring term). Hours to be arranged.

This course is a reading/writing intensive seminar on feminist perspectives in Global Christianity. A multidisciplinary approach (feminist biblical interpretation, feminist philosophy of religion, feminist history of the Christian tradition, and feminist constructive theology) engages three critical analytical categories: women, gender and sexuality. Authors to be examined include Elisabeth Schüssler Fiorenza, Grace Jantzen, Amy Hollywood, M. Shawn Copeland, Kwok Pui Lan and Marcella Althaus Reid among others.

Note: Expected to be given in 2011–12.

Religion 1488. Negative Theology - (New Course)

Catalog Number: 63826

Mark D. Jordan (Divinity School) and Charles Stang (Divinity School)

Half course (spring term). Tu., 12-2 and an hour to be arranged.

This course will examine the history of apophatic or negative theology in the Christian tradition. Through a close reading of primary texts in translation, students will engage questions of divine transcendence, divine hiddenness, theological or liturgical secrecy, and the limits of language.

Note: Offered jointly with the Divinity School as 2703.

Religion 1493. Contemporary Roman Catholic Theology

Catalog Number: 6926

Francis Fiorenza (Divinity School)



Half course (spring term). W., 1-4, and hour to be arranged.

A survey of contemporary Roman Catholic theology that discusses issues in the interpretations of God, Jesus, and the church with reference to theological method. The broad spectrum of present-day Roman Catholic theology will be covered through an analysis of diverse theologians and approaches: existential, transcendental, liberationist, feminist, analytical, and hermeneutical.
Note: Offered jointly with the Divinity School as 2479.

Religion 1494. Feminist Theory and Theology: Seminar

Catalog Number: 29657 Enrollment: Limited to 10.

Elisabeth Schüssler Fiorenza (Divinity School)

Half course (fall term). W., 1-3.

The seminar explores the intersections of feminist theory with feminist theologies and gender studies in religion.

Note: Offered jointly with the Divinity School as 2689.

Cross-listed Courses

[Celtic 107. Early Irish History]

[History 1214 (formerly History 1414). Encountering of the Other: The Expansion of the Christian West, 1650-1830]

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 (spring term). Hours to be arranged.

The history of the Puritan movement in the context of the Reformation and the Reformed tradition; mainstream and radical movements, including Quakerism. A reading and research seminar using primary materials and the major historiography.

Note: Expected to be given in 2011-12. Expected to be given again in 2013-14. Offered jointly with the Divinity School as 2270.

Religion 2477. God

Catalog Number: 8838 Enrollment: Limited to 12.

Francis Fiorenza (Divinity School)

Half course (fall term). Tu., 12-2.

An analysis of select theologians in their approach to the knowledge and the nature of God. Special attention will be paid to their theological method and philosophical presuppositions.

Note: Offered jointly with the Divinity School as 2634.

Cross-listed Courses

[*History 2340 (formerly *History 2662 & *History 2662hf). Readings in American Thought]



[*History of Art and Architecture 241n. Image-Text-Context]

***Medieval Studies 202 (formerly *Medieval Studies 102). Latin Palaeography and Manuscript Culture: Seminar**

Medieval Studies 223. Preaching and Sermon in the Middle Ages

[Medieval Studies 227 (formerly Medieval Studies 127). Hildegard of Bingen and the Gospels: Seminar]

Graduate Courses of Reading and Research

***Religion 3420hf. Seminar for Advanced New Testament Students**

Catalog Number: 6026 Enrollment: Limited to 15.

Giovanni Battista Bazzana (Divinity School) 6873

Half course (throughout the year). Alternate W., 3-5.

Topic for 2010-11: The historical inquiry that produced the Q hypothesis and what role this historiographical proposal has played in cultural and theological discussions in the academic world and outside of it from the 19th century to today.

Note: A course available to ThM, ThD, and PhD candidates, and qualified MTS and MDiv students with permission of the instructor. Required for ThM candidates in the field and for ThD and PhD candidates until the term following successful completion of general exams. Offered jointly with the Divinity School as 1980.

***Religion 3425hf. New Testament Seminar for Doctoral Dissertations**

Catalog Number: 8507

Giovanni Battista Bazzana (Divinity School) 6873

Half course (throughout the year). Alternate W., 3-5 .

Biweekly presentation of research projects.

Note: Offered jointly with the Divinity School as 1995.

Modern Western/Religions of the Americas

Primarily for Undergraduates

Cross-listed Courses

Culture and Belief 20 (formerly Historical Study A-27). Reason and Faith in the West

[Culture and Belief 36. Religion and Its Future]

[Ethical Reasoning 15 (formerly Moral Reasoning 54). "If There is No God, All is Permitted:" Theism and Moral Reasoning]

Ethical Reasoning 22 (formerly Moral Reasoning 22). Justice

Ethical Reasoning 26. The Ethics of Atheism: Marx, Nietzsche, Freud - (New Course)

[*History 84i (formerly *History 1969). Secularization in Europe and the United States, c. 1780-2000]

Societies of the World 30. Moctezuma's Mexico: Then and Now

United States in the World 33 (formerly African and African American Studies 193).

Religion and Social Change in Black America



For Undergraduates and Graduates

Religion 1513. History of Harvard and Its Presidents

Catalog Number: 1233

Stephen Paul Shoemaker

Half course (spring term). W., F., at 11, and hour to be arranged. EXAM GROUP: 4

An exploration of the intellectual and institutional history of America's oldest college through the examination of four pairs of its 27 presidents. Among themes to be considered are European antecedents, developments in faculty, governance, and curriculum, as well as the maturation of the built environment. Significant attention is paid to the evolution of the religious context of the school, including the practice of and instruction in religion, and the challenges of secularism and pluralism.

Note: Offered jointly with the Divinity School as 2297. Expected to be given in 2011-12.

[Religion 1514. Reading Derrida: Performance, Politics, and Apophatic Theology]

Catalog Number: 11152

Amy Hollywood (Divinity School)

Half course (spring term). Hours to be arranged.

The course will focus on selected essays by philosopher Jacques Derrida, read against the background of the philosophical, theological, and literary texts with which he is engaged. Readings will likely include work by J. L. Austin, Walter Benjamin, Immanuel Kant, and Meister Eckhart, as well as by Derrida.

Note: Expected to be given in 2012-13. Offered jointly with the Divinity School as 2614.

***Religion 1529. The Holocaust and the Churches, 1933-45**

Catalog Number: 8653 Enrollment: Limited to 15.

Kevin J. Madigan (Divinity School)

Half course (spring term). Th., 12-2. EXAM GROUP: 14, 15

This course will be an historical study of the systematic, bureaucratic annihilation of European Jewry by the Nazi regime during the Second World War. It will also be an historical study of what the Protestant and Catholic churches and individual Christians did and did not do--how they stood by, collaborated with or resisted the Nazis during the emigration, expropriation, persecution, ghettoization, deportation and annihilation of their Jewish neighbors. It will close with a brief study of some of the philosophical and religious implications of the Holocaust.

Note: Offered jointly with the Divinity School as 2293.

[Religion 1533. Attention and Engagement in Contemporary American Poetry]

Catalog Number: 68875 Enrollment: Limited to 12.

Amy Hollywood (Divinity School)

Half course (spring term). Hours to be arranged.

An exploration of the interplay of aesthetics, politics, and religion in contemporary American poetry. Poets to be read will likely include Juliana Spahr, Claudia Rankine, Susan Howe, Dan Beachy-Quick, C.D. Wright, Elizabeth Robinson, Lisa Robertson, Anne Carson, Jorie Graham, Myung Mi Kim, and Harryette Mullen.

Note: Expected to be given in 2011-12. Offered jointly with the Divinity School as 2611.



Religion 1535. Theology and Power: Seminar

Catalog Number: 8857 Enrollment: Limited to 12.

Francis Fiorenza (Divinity School)

Half course (spring term). Tu., 12-2. EXAM GROUP: 14, 15

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 jointly with the Divinity School as 2633.

[Religion 1538. Liberal and Liberation Theologies in Dialogue] - (New Course)

Catalog Number: 33612

Daniel P. McKanan (Divinity School)

Half course (fall term). Hours to be arranged.

This course will explore the possibilities for fruitful interchange between classic liberal theologies and contemporary theologies of liberation. We will begin with major texts of American liberal theology (Channing, Emerson, Bushnell, Rauschenbusch), then turn to the defining liberationist texts (Gutierrez, Cone, Daly), and conclude with several attempts to integrate the traditions.

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 2415.

[Religion 1543. 19th-Century Religious Thought: Theology and the Critique of Religion]

Catalog Number: 5065

David Lamberth (Divinity School)

Half course (fall term). Hours to be arranged.

The 19th-century formulated many of the questions and frameworks that continue to dominate theology and religious reflection in the West. We consider the developing interplay between modern Christian theology (primarily continental) and the principal philosophical and social critiques of religion in the 19th-century. Topics include human nature, religion, the divine-human relationship, religious knowledge, the social, and historicity. Readings from Lessing, Kant, Schleiermacher, Hegel, Marx, Feuerbach, Kierkegaard, Nietzsche, Harnack, and Troeltsch.

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 2431.

[Religion 1544. Unitarian and Universalist Thought in the Nineteenth Century]

Catalog Number: 38993

Daniel P. McKanan (Divinity School)

Half course (spring term). Hours to be arranged.

This seminar will explore the intellectual shapers of the Unitarian and Universalist traditions in the nineteenth century, with special attention to the founders and formative theologians of each tradition, the challenges of Transcendentalism and Spiritualism, and the interactions of Unitarianism and Universalism with broader currents of religious liberalism in the United States.

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 2770.

Religion 1549. Media, Religion, and Social Meaning

Catalog Number: 3414



Marla F. Frederick

Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17

A look at the development of television ministries and their influence on contemporary American Christendom. In almost all instances, the incorporation of media has dramatically increased religion's participation in American politics and the global market. In some cases, televised church has blurred religious denominationalism and disrupted simple social binaries of black/white, rich/poor, male/female. Through an interdisciplinary approach using history, anthropology, sociology, religion and media studies we will try to better interpret this growing phenomenon and its contemporary social import.

Note: Offered jointly with the Divinity School as 2517.

Religion 1551. Communal and Communitarian Religions in the United States - (New Course)

Catalog Number: 18505 Enrollment: Limited to 20.

Daniel P. McKanan (Divinity School)

Half course (spring term). F., 2–4.

This course will use textual and experiential methods to explore the history and contemporary reality of religious communes and intentional communities, ranging from monasteries to utopian villages to Catholic Worker houses.

Note: Expected to be given again in 2012-13. Multiple field trips, students should be available all day on Fridays and 1 or 2 weekends. Offered jointly with the Divinity School as 2774.

Religion 1553. Gender, Discipline, and the Body in American Christianity - (New Course)

Catalog Number: 40223

R. Marie Griffith (Divinity School)

Half course (fall term). W., 2–4.

This course explores the modern historical evolution of bodily disciplines, focusing on the linkages between Christian devotion and practices of stringent self-denial (e.g., dietary or sexual abstinence) in American culture. We will attend closely to gender, race, and class, considering how these practices have helped shape perceptions and experiences of femininity and masculinity, whiteness and blackness, beauty, and morality. Assigned texts include readings on fasting, phrenology, chastity, eugenics, corporal punishment, contraception, dieting, and plastic surgery.

Note: Offered jointly with the Divinity School as 2348. This course, when taken for a letter grade, meets the Core area requirement for Historical Study A.

Religion 1557. Unitarian and Universalist History in the United States - (New Course)

Catalog Number: 85134

Daniel P. McKanan (Divinity School)

Half course (fall term). W., 1–4. EXAM GROUP: 6, 7, 8

This survey course will trace the history of both Unitarianism and Universalism from their eighteenth-century origins to the present. Focusing especially on the experiences of local congregations, we will explore the diverse starting points of liberal religion in the United States; the challenges of Transcendentalism, spiritualism, and humanism; the interplay between liberal religion and social reform; and the experience of consolidation in the twentieth century.

Note: Expected to be given again in 2012-13. Offered jointly with the Divinity School as 2776.



Religion 1559. Unitarian and Universalist Thought in the Twentieth Century - (New Course)

Catalog Number: 39813

Daniel P. McKanan (Divinity School)

Half course (spring term). Tu., 2–4.

This seminar will explore the major shapers of the Unitarian and Universalist traditions in the twentieth century, with special attention to the influence of the social gospel, religious humanism, process thought, and liberation theology. Featured writers will include Francis Greenwood Peabody, Clarence Skinner, John Jaynes Holmes, Charlotte Perkins Gilman, Curtis Reese, Frederick May Eliot, James Luther Adams, Sophia Fahs, Henry Nelson Wieman, Charles Hartshorne, A. Powell Davies, Kenneth Patton, William R. Jones, and Rebecca Parker.

Note: Expected to be given again in 2012-13. Offered jointly with the Divinity School as 2772.

Religion 1565. Religion and the Left in US History - (New Course)

Catalog Number: 70027

Daniel P. McKanan (Divinity School)

Half course (fall term). M., W., at 9 and hour to be arranged.

This course surveys religious and spiritual movements for social transformation in the United States from the early nineteenth century to the present. We will consider such movements as abolitionism, pacifism, feminism, socialism, the social gospel, and civil rights, paying special attention to the theological and denominational diversity of religious activism, external and internal criticisms of religious leftists, and the interplay between religious radicalism and other religious and cultural traditions.

Note: Expected to be given again in 2012-13. Offered jointly with the Divinity School as 2773.

Religion 1572. Sex, Gender and Sexuality

Catalog Number: 6407

Amy Hollywood (Divinity School)

Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17

The course will explore the theoretical articulation of sex, gender, and sexuality in twentieth-century medicine, social science, psychoanalysis, philosophy, and feminist and queer theory. Attention will be given to the ramifications of these concepts for the study of religion. Readings will include texts by Sigmund Freud, Simone de Beauvoir, Jacques Lacan, Michel Foucault, Gayle Rubin, Julia Kristeva, Monique Wittig, Judith Butler, Moira Gatens and others.

Note: Offered jointly with the Divinity School as 2692.

Religion 1576. Contemporary Philosophy of Religion - (New Course)

Catalog Number: 75388 Enrollment: Limited to 18.

Parimal G. Patil

Half course (fall term). F., 2–4:30.

This seminar-style course is organized around close and critical readings of recent work in the philosophy of religion, broadly construed. Although there are no specific pre-requisites, previous course work in philosophy will be assumed.

Note: Expected to be given again in 2012-13.

Cross-listed Courses



[History 1213 (formerly History 1413). The Evangelical Tradition, c. 1700-2000]

History 1350. Theories of Secularization: Conference Course

History 1445. Science and Religion in American Public Culture - (New Course)

Primarily for Graduates

***Religion 2501. The Religious History of American Women: Seminar**

Catalog Number: 6508

Ann D. Braude (Divinity School)

Half course (fall term). W., 10–12.

The Religious History of American Women: Seminar Ann D. Braude Description Takes the numerical dominance of women in most religious groups as the point of departure for an exploration of American history focusing on the interrelation of gender systems and religious world views. Topics include witchcraft, African American women evangelists, ideologies of domesticity, and the relation of gender to religious dissent, among others. The course emphasizes historical research methodology using gender as a category of analysis.

Note: Offered jointly with the Divinity School as 2325.

Prerequisite: Previous work in American religious history or women's studies.

Religion 2530. Kant and Enthusiasm - (New Course)

Catalog Number: 69646 Enrollment: Limited to 15.

Amy Hollywood (Divinity School)

Half course (spring term). Hours to be arranged.

The Course will explore the interplay of critique and enthusiasm in Kant's writings, from the pre-critical writings through religion within the boundaries of mere reason.

Note: Offered jointly with the Divinity School as 2616.

[Religion 2535. Kant's Third Critique] - (New Course)

Catalog Number: 54539 Enrollment: Limited to 15.

Amy Hollywood (Divinity School)

Half course (fall term). Hours to be arranged.

An indepth reading of Kant's *Critique of Judgment,* with particular emphasis on the "Analytic of the Sublime" and its afterlife in the study of religion.

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 2617.

[Religion 2539. The Thought of John Dewey: Seminar] - (New Course)

Catalog Number: 18915 Enrollment: Limited to 12. Advanced work in theology or philosophy of religion.

David Lamberth (Divinity School)

Half course (fall term). Hours to be arranged.

An in depth analysis of the thought of John Dewey, with particular focus on the relevance of his ideas to religion and theology.

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 2715.

[Religion 2542 (formerly Religion 1541). Kant: Seminar]

Catalog Number: 5295 Enrollment: Limited to 12.



David Lamberth (Divinity School)

Half course (spring term). Hours to be arranged.

A close reading of major works of Kant relevant to theology and philosophy of religion. The seminar focuses on issues such as the nature and limits of reason, the concepts of freedom, morality and faith, and the idea of God.

Note: Expected to be given in 2012–13. Offered jointly with the Divinity School as 2674.

Prerequisite: Advanced work in theology or philosophy of religion.

[Religion 2550. Women and Religion in Contemporary America: Seminar]

Catalog Number: 8927

Ann D. Braude (Divinity School)

Half course (fall term). Hours to be arranged.

Surveys contemporary developments in Christian, Jewish, and Muslim communities. Topics include religion and women's political mobilization, including evangelical and Mormon movements; the modernization of orthodoxies, including Judaism and Catholicism; and the body as a site of conflict, exploration, and expression of the intersecting categories of religion, gender, and American identity. The course approaches persistent issues of modesty, dress, sexuality, food, menstruation, healing, and ordination.

Note: Expected to be given in 2012–13. Offered jointly with the Divinity School as 2328.

[*Religion 2560. Readings in American Religious Historiography]

Catalog Number: 26083 Enrollment: Limited to 15.

R. Marie Griffith (Divinity School)

Half course (fall term). Hours to be arranged.

An advanced seminar for doctoral students preparing for general exams in American religious history. We will read major interpretive texts from the nineteenth and twentieth centuries as a way of narrating the development of this field.

Note: Expected to be given in 2012–13. Offered jointly with Divinity School as 2346. Advanced MTS students currently applying for doctoral programs may also be eligible.

Graduate Courses of Reading and Research

***Religion 3505hf (formerly *Religion 3505hf). Colloquium in American Religious History**

Catalog Number: 6445 Enrollment: Limited to 20.

Leigh E. Schmidt (Divinity School) 6566

Half course (throughout the year). Th., 4-6, bi-weekly.

Presentation and discussion of the research of doctoral candidates in American religious history.

Note: Offered jointly with the Divinity School as 2390. Open, with instructor's permission, to doctoral students in other fields of religious studies or American studies. The first two class meetings will occur back to back on September 16 and 23rd.

Hinduism and South Asia

Primarily for Undergraduates

Cross-listed Courses



Aesthetic and Interpretive Understanding 30 (formerly Literature and Arts A-92). Love In A Dead Language: Classical Indian Literature and Its Theorists
[Culture and Belief 28. Hindu Worlds of Art and Culture]

For Undergraduates and Graduates

[Religion 1627. Hindu Ethics: Seminar]

Catalog Number: 9638 Enrollment: Limited to 15.

Anne E. Monius (Divinity School)

Half course (spring term). Hours to be arranged.

An intensive exploration of the place of ethics and moral reasoning in Hindu thought and practice. Materials to be examined will be drawn from a wide range of sources, from classical Sanskrit *dharmashastra* to epic narrative, devotional poetry, and modern ethnography, but emphasis will be placed throughout upon the particularity of different Hindu visions of the ideal human life.

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 3923.

[Religion 1631. Hindu Traditions of Devotion]

Catalog Number: 9423

Anne E. Monius (Divinity School)

Half course (fall term). Hours to be arranged.

An examination of Hindu *bhakti* (devotional traditions), focusing on three specific geographic/cultural regions within the Indian subcontinent. Keeping in mind both continuities and differences in the *bhakti* traditions of these three distinct cultural areas, this course explores a variety of devotional literature in English translation and considers the enduring significance and use of that deeply emotional poetry in the lives of Hindus today.

Note: Expected to be given in 2012–13. Offered jointly with the Divinity School as 3406.

[Religion 1635. Reading Pre-Modern Hindu Narrative Literature: Seminar]

Catalog Number: 0073

Anne E. Monius (Divinity School)

Half course (spring term). Hours to be arranged.

Focusing on the genres of *itihasa*, *purana*, and *katha*, this seminar explores the relevance of both classical Indic and contemporary Euro-American literary theories for the understanding of pre-modern South Asian narrative.

Note: Expected to be given in 2012–13. Offered jointly with the Divinity School as 3926.

Prerequisite: Although all primary source readings will be in English translation, previous study of South Asian religions is required.

Religion 1655. Gandhi, Then and Now: Seminar - (New Course)

Catalog Number: 91335

Diana L. Eck

Half course (fall term). M., 3–5. EXAM GROUP: 8, 9

Readings in the life, religious thought, and social activism of M.K. Gandhi, considering Gandhi in his own time and historical context as well as his connections to those who took inspiration from his approach to issues of non-violent change and social justice. We will consider



biographies and studies of Gandhi, his own autobiographical writings, his writings on non-violence, self-reliance, religion, and social transformation.

Note: Offered jointly with the Divinity School as 3421.

[Religion 1659. God, Scripture, Freedom: Christian and Hindu Views according to Calvin and Ramanuja] - (New Course)

Catalog Number: 59871

Francis X. Clooney (Divinity School)

Half course (spring term). Hours to be arranged.

This seminar takes up three substantive theological themes: the nature of God: the authority, interpretation, and purposes of scriptural knowledge; and the reality and limits of human freedom. We will explore these themes in light of the primary writings of Ramanuja (1017-1137) and John Calvin (1509-1564). Of interest to students in theology, ethics, scriptures, comparative studies, and to Calvin or Ramanuja students open to seeing a familiar figure from a new perspective.

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 3752.

[Religion 1661 (Reading Hindu Texts Interreligiously IV: The Yoga Sutras and Commentaries in Translation). Spiritual Exercises: The Yoga Sutras in a Comparative Perspective]

Catalog Number: 8002 Enrollment: Limited to 15.

Francis X. Clooney (Divinity School)

Half course (fall term). Hours to be arranged.

This seminar is for students interested in the study of primary Indian/Hindu texts, read in translation and in the context of a comparative dynamic of reading across the boundaries of traditions. The Yoga Sutras and their commentaries will be read along with excerpts from Christian parallels (e.g., the Spiritual Exercises of Ignatius Loyola).

Note: Expected to be given in 2012–13. Offered jointly with the Divinity School as 3931.

Prerequisite: No language or course prerequisites, but students who know Sanskrit will be encouraged to make use of their expertise. It is not necessary to have taken prior courses in this series.

Primarily for Graduates

Cross-listed Courses

**[Sanskrit 200br \(formerly Sanskrit 212br\). Advanced Literary Sanskrit](#)
[Sanskrit 201br. Advanced Philosophical Sanskrit]**

Buddhism

Primarily for Undergraduates

Cross-listed Courses



Aesthetic and Interpretive Understanding 36 (formerly Foreign Cultures 94). Buddhism and Japanese Culture

[Culture and Belief 25 (formerly Religion 70). Studying Buddhism, Across Place and Time]

For Undergraduates and Graduates

[Religion 1701. Introduction to Buddhist Scriptures and Their Critical Interpretations]

Catalog Number: 5996

Charles Hallisey (Divinity School)

Half course (fall term). Hours to be arranged.

An introduction to basic issues in the contemporary understanding of textuality, history, and interpretation and their relevance to the study of Buddhist scriptures. Examples of Buddhist scriptures will be drawn primarily from the Mahayana traditions.

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 3836.

Religion 1705 (Buddhism in Tibet). Tibetan Buddhism

Catalog Number: 7192

Janet Gyatso (Divinity School)

Half course (fall term). Tu., Th., 11:30-1 and hour to be arranged.

Distinctive traditions of Tibetan Buddhism in their historical contexts. Topics include: the ethics of compassion, visionary meditations; tantric yoga and physiologies; death and reincarnation practices; magic and state rituals; the creation of sacred landscape; religious authority and discipline; and cultures of writing, learning and painting. Throughout the course we will consider the relation of these religious practices to the historical development of Tibetan cultures, Buddhist institutions, and state formations.

Note: Expected to be given again in 2011-12. Offered jointly with the Divinity School as 3563.

[Religion 1706. South Asian Buddhism: Dharmas, Emptiness, and Idealism]

Catalog Number: 9464

Parimal G. Patil

Half course (fall term). Th., 3–5.

A very close and contextual reading (in translation) of Buddhist “doctrinal” and “philosophical” texts. We will select chapters from Vasubandhu’s *Treasury of Metaphysics*, Nagarjuna’s *Basis of the Middle Way*, and Vasubandhu’s *Twenty Verses*. Attempt to understand these texts on their own terms and in their South Asian contexts, while also inquiring into their significance for the study of Buddhism and religion in South Asia.

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 3536.

[Religion 1707. Introduction to Buddhist Commentaries and their Critical Interpretations]

Catalog Number: 9290

Charles Hallisey (Divinity School)

Half course (spring term). Hours to be arranged.

An introduction to the study of Buddhist commentaries, their textual and hermeneutic services, as well as their history and their places in Buddhist scholastic cultures. Examples of Buddhist commentaries will be drawn from across the Buddhist world.

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 3779.



[Religion 1722. Buddhist Ethics]

Catalog Number: 38661

Charles Hallisey (Divinity School)

Half course (fall term). Hours to be arranged.

A systematic exploration of the place of moral reflection in Buddhist thought and practice. The scope of the course is wide, with examples drawn from the whole Buddhist world, but the emphasis will be given to the particularity of different Buddhist visions of human flourishing. Attention will also be given to the challenges and promises of describing Buddhist ethics in a comparative perspective.

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 3576.

[Religion 1730. Buddhist Women and Representations of the Female]

Catalog Number: 4463

Janet Gyatso (Divinity School)

Half course (fall term). Hours to be arranged.

This course explores two interrelated subjects: Buddhist conceptions and practices relating to sex and gender; and the lives and subjectivities of historical women across the Buddhist world. It studies writings on monastic discipline, tantric sexual practices, and gender, as well as premodern and modern autobiographies of celibate and lay women. These Buddhist materials are considered in conjunction with the writings of Western feminist thinkers, including Judith Butler and Joan Scott.

Note: Expected to be given in 2012–13. Offered jointly with the Divinity School as 3559.

[Religion 1741. Modern Buddhism and Fiction]

Catalog Number: 23554 Enrollment: Limited to 25.

Charles Hallisey (Divinity School)

Half course (spring term). Hours to be arranged.

A consideration of fiction as a vehicle for religious reflection in the modern Buddhist world. Attention will also be given to examples of fiction in which Buddhist themes or ideas are taken up for reflection by non-Buddhist authors and audiences.

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 3777.

Religion 1742. Introduction to Buddhist Narrative and Story Literature

Catalog Number: 90183 Enrollment: Limited to 25.

Charles Hallisey (Divinity School)

Half course (fall term). Tu., Th., 8:30–10.

An introduction to the study of narrative and story literature in the Buddhist world. A primary focus will be on the narrative and story literature found in Buddhist scriptures and commentaries, but there will also be consideration of examples of narrative and story literature that circulated independently. Examples will be drawn from across the Buddhist world.

Note: Expected to be given in 2012–13. Offered jointly with the Divinity School as 3776.

Cross-listed Courses

East Asian Studies 191. Zen: History, Culture, and Critique



Primarily for Graduates

[Religion 2710r. Buddhist Studies: Seminar]

Catalog Number: 1608

Janet Gyatso (Divinity School)

Half course (spring term). Hours to be arranged.

Advanced seminar for multidisciplinary Buddhist Studies. The 2008-09 topic was Buddhist Tantra in its Indian and Tibetan Contexts. Past topics have included Buddhist Monasticism, and Readings in Contemporary Buddhist Studies: The State of the Field.

Note: Expected to be given in 2011–12. May be repeated for credit. Offered jointly with the Divinity School as 3888.

Prerequisite: Knowledge of at least one classical Asian language.

[Religion 2735. Buddhist Bodies and Their Moral Cultivation: Seminar]

Catalog Number: 79236 Enrollment: Limited to 20.

Janet Gyatso (Divinity School)

Half course (spring term). Hours to be arranged.

This seminar will study Buddhist sources for what they suggest about how the human body exists, perceives, engages with others, learns, and participates in moral and artistic development. Readings will be drawn from Buddhist writings on the body and the senses, ritual, discipline, ethics, and artistic practice, along with personal memoirs from South Asia, Tibet, and East Asia. The seminar will also study continental philosophy of the body, including Bergson and Merleau-Ponty, as resources for vocabulary and conceptualization.

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 3570.

Cross-listed Courses

[East Asian Buddhist Studies 240r. Japanese Buddhist Doctrine and Monastic Culture: Seminar](#)

[East Asian Buddhist Studies 245r \(formerly East Asian Buddhist Studies 245\). Ritual and Text in Japanese Buddhist Literature](#)

[East Asian Buddhist Studies 255. Readings on Chinese Religions: Landscape, Place, Pilgrims, and Travelers in the Study of East Asian Buddhism: Seminar](#)

[East Asian Buddhist Studies 256. Chinese Buddhist Texts--Readings in Medieval Buddhist-Daoist Documents: Seminar](#)

Islam

Primarily for Undergraduates

Cross-listed Courses

[Culture and Belief 12. For the Love of God and His Prophet: Religion, Literature, and the Arts in Muslim Cultures]

[Culture and Belief 19 \(formerly Foreign Cultures 70\). Understanding Islam and Contemporary Muslim Societies](#)



Culture and Belief 41 (formerly Historical Study A-67). Gender, Islam, and Nation in the Middle East and North Africa

For Undergraduates and Graduates

Religion 1080. Modern States and Religion - (New Course)

Catalog Number: 74187 Enrollment: Limited to 15.

Malika Zeghal

Half course (fall term). Th., 12–3.

This class examines the ways in which we can think about the relationship between modern states and religion. How do authoritarian states, in contradistinction with democratic regimes, define secularism as well as "religion"? What does the history of the modern state owe to religion? Do religious institutional forms matter in terms of understanding the interaction - or lack thereof - of religion with the state?

[Religion 1806. The Vocabulary of Islam]

Catalog Number: 1701

M. Shahab Ahmed

Half course (spring term). Hours to be arranged.

Provides students with knowledge of a broad range of key concepts, technical terms, seminal questions, and cultural motifs internal to the Islamic tradition. These constitute a vocabulary related to Quran and exegesis, Hadith, law, theology, political thought, philosophy, Sufism, ritual, literature, art, and architecture, that has permeated Islamic discourses, practices, and identities down to the modern period, and that is central to an informed understanding and further study of Islam as religion and civilizational complex.

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 3978. Not open to auditors.

[*Religion 1816. Ismaili History and Thought]

Catalog Number: 18808 Enrollment: Limited to 15.

Ali S. Asani

Half course (spring term). Hours to be arranged.

A seminar surveying the development and evolution of Ismaili interpretations of Islam in various historical and cultural settings.

Note: Expected to be given in 2011–12. Offered jointly with the Divinity School as 3939.

Prerequisite: Prior study of Islam or permission by instructor required.

***Religion 1820 (formerly *Religion 1585). Muslim Societies in South Asia: Religion, Culture, and Identity**

Catalog Number: 2741

Ali S. Asani

Half course (fall term). Th., 3–5:30.

South Asia is home to the largest concentration of Muslims in the world. This course surveys the development of Muslim communities in the region focusing on an exploration of their identities in diverse contexts. Issues and themes will be considered within religious and socio-political contexts, as well as the broader framework of South Asian cultures as expressed in language,



literature, and the arts. The course also examines various ways in which the terms "Islamic" and "Muslim" are understood in pre-modern and modern discourses as well as the lived experiences of being Muslim in contemporary India, Pakistan, and Bangladesh.

Note: Offered jointly with Divinity School as 3625. This course, when taken for a letter grade, meets the General Education requirement for either Culture and Belief or Societies of the World, but not both. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the Core area requirement for Foreign Cultures.

Prerequisite: Introductory course in Islam or equivalent.

Religion 1832. Political Islam in the 20th and 21st Centuries - (New Course)

Catalog Number: 43973 Enrollment: Limited to 20.

Malika Zeghal

Half course (spring term). Tu., Th., 10–11:30.

This course reviews the literature produced by social scientist and historians on the origins, ideologies, and political practices of 20th century Islamist movements as well as on their evolution in the early 21st century.

Cross-listed Courses

***Arabic 151. Qur'anic Texts - (New Course)**

History of Science 108. Bodies, Sexualities, and Medicine in the Medieval Middle East - (New Course)

History of Science 111. Two Scientific Revolutions: From the Classical Age of Islamic Sciences to the Scientific World of Early Modern Europe - (New Course)

History of Science 113. Crusades, Plagues and Hospitals: Medicine and Society in the Islamic Middle Ages - (New Course)

Islamic Civilizations 155. Introduction to the Qur'an - (New Course)

Primarily for Graduates

Cross-listed Courses

History of Science 209. Science and Islam: Debates, Approaches and Controversies: Seminar - (New Course)

***Islamic Civilizations 241r. Approaches to Studying Indo-Muslim Culture and South Asian Islam**

Near Eastern Civilizations 200a. Approaches to Middle Eastern Studies: Proseminar

African and Afro-Atlantic Religions

For Undergraduates and Graduates

Cross-listed Courses

African and African American Studies 187. African Religions



Chinese and Japanese Religions

Primarily for Undergraduates

Cross-listed Courses

[**Aesthetic and Interpretive Understanding 36 \(formerly Foreign Cultures 94\). Buddhism and Japanese Culture**](#)

[**Culture and Belief 33. Introduction to the Study of East Asian Religions**](#)

[**Ethical Reasoning 18 \(formerly Moral Reasoning 78\). Classical Chinese Ethical and Political Theory**](#)

[Societies of the World 12 (formerly Historical Study A-13). China: Traditions and Transformations]

[**Societies of the World 13 \(formerly Historical Study A-14\). Japan in Asia and the World**](#)

For Undergraduates and Graduates

Cross-listed Courses

[**East Asian Studies 140. Major Religious Texts of East Asia**](#)

[Japanese History 115. Religion and Society in Edo and Meiji Japan]

[Japanese History 120. Religion and Society in Twentieth-Century Japan]

[**Japanese History 126. Shinto: Conference Course**](#)

Primarily for Graduates

Cross-listed Courses

[*History of Art and Architecture 283v. Chinese Art as Ritual]

Graduate Courses of Reading and Research

***Religion 3000. Direction of Doctoral Dissertations**

Catalog Number: 1933

Ryuichi Abe 4974, Ali S. Asani 7739, Harvey G. Cox, Jr. (Divinity School) 3479, Diana L. Eck 4514, Francis Fiorenza (Divinity School) 2735, Marla F. Frederick 4728, William Albert Graham 4156, R. Marie Griffith (Divinity School) 6338, Janet Gyatso (Divinity School) 4243, David D. Hall (Divinity School) 2510, Helen Hardacre 3191 (on leave spring term), Jay M. Harris 2266, Albert Henrichs 4085, Evelyn Brooks Higginbotham 3517 (on leave 2010-11), Karen L. King (Divinity School) 4217, Arthur Kleinman 7473, James T. Kloppenberg 3157, Helmut H. Koester (Divinity School) 3477, Smita Lahiri 4465 (on leave fall term), David Lamberth (Divinity School) 3714, Jon D. Levenson (Divinity School) 2264, Peter Machinist 2812, Everett I. Mendelsohn 2700, David G. Mitten 1290, Anne E. Monius (Divinity School) 4489, Roy Mottahedeh 1454 (on leave fall term), Laura S. Nasrallah (Divinity School) 4834, Jacob Olupona 5608, Parimal G. Patil 4478, Leigh E. Schmidt (Divinity School) 6566, Elisabeth Schüssler Fiorenza (Divinity School) 3193, P. Oktor Skjaervo 2869 (on leave spring term),



Ronald Thiemann (Divinity School) 3395, Wei-ming Tu 7233, and Leonard W. J. van der Kuip 1556 (on leave fall term)

Note: May also be taken with other instructors, when authorized by the Chair.

***Religion 3001. Reading and Research**

Catalog Number: 7954

Ryuichi Abe 4974, M. Shahab Ahmed 5273 (on leave 2010-11), Ali S. Asani 7739, David L. Carrasco 4213, Francis X. Clooney (Divinity School) 1785, Harvey G. Cox, Jr. (Divinity School) 3479, Diana L. Eck 4514, Francis Fiorenza (Divinity School) 2735, Marla F. Frederick 4728, William Albert Graham 4156, R. Marie Griffith (Divinity School) 6338, Janet Gyatso (Divinity School) 4243, David D. Hall (Divinity School) 2510, Charles Hallisey (Divinity School) 3032, Helen Hardacre 3191 (on leave spring term), Jay M. Harris 2266, Evelyn Brooks Higginbotham 3517 (on leave 2010-11), Amy Hollywood (Divinity School) 5547, Mark D. Jordan (Divinity School) 6279, Beverly M. Kienzle (Divinity School) 2452, Karen L. King (Divinity School) 4217, Arthur Kleinman 7473, James T. Kloppenberg 3157, Helmut H. Koester (Divinity School) 3477, Smita Lahiri 4465 (on leave fall term), David Lamberth (Divinity School) 3714, Jon D. Levenson (Divinity School) 2264, Peter Machinist 2812, Kevin J. Madigan (Divinity School) 4287, Daniel P. McKanan (Divinity School) 6387, Everett I. Mendelsohn 2700, David G. Mitten 1290, Anne E. Monius (Divinity School) 4489, Roy Mottahedeh 1454 (on leave fall term), Laura S. Nasrallah (Divinity School) 4834, Parimal G. Patil 4478, Kimberley C. Patton (Divinity School) 3306, Stephanie A. Paulsell (Divinity School) 5382, Michael J. Puett 1227, Leigh E. Schmidt (Divinity School) 6566, Jonathan Schofer (Divinity School) 5384, Elisabeth Schüssler Fiorenza (Divinity School) 3193, Charles Stang (Divinity School) 6204, Ronald Thiemann (Divinity School) 3395, Wei-ming Tu 7233, and Leonard W. J. van der Kuip 1556 (on leave fall term)

Note: May also be taken with other instructors, when authorized by the Chair.

***Religion 3002. Foreign Language Certification**

Catalog Number: 4791

Members of the Committee

Reading and research conducted in a specific foreign language, normally French or German, to satisfy the modern language reading proficiency requirement for PhD students in the Study of Religion.

Note: Limited to PhD candidates who receive written permission from the Committee's Director of PhD Studies.

Romance Languages and Literatures

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION



Faculty of the Department of Romance Languages and Literatures

Virginie Greene, Professor of Romance Languages and Literatures, Harvard College Professor
(*Chair*)

Daniel Aguirre-Oteiza, Lecturer on Romance Languages and Literatures

Janet Beizer, Professor of Romance Languages and Literatures

Carole Bergin, Preceptor in Romance Languages and Literatures

Mathieu Brunet, Visiting Associate Professor of Romance Languages and Literatures

Giorgio Caravale, Lauro De Bosis Post-Doctoral Fellow in Romance Languages and Literatures

Michele Ciliberto, Lauro de Bosis Lecturer on the History of Italian Civilization

Yves Citton, Visiting Professor of Romance Languages and Literatures

Joaquim-Francisco Coelho, Nancy Clark Smith Professor of the Language and Literature of Portugal and Professor of Comparative Literature

Tom Conley, Abbott Lawrence Lowell Professor of Romance Languages and Literatures and of Visual and Environmental Studies

Verena A. Conley, Visiting Professor of Comparative Literature and of Romance Languages and Literatures

Sergio Delgado, Assistant Professor of Romance Languages and Literatures

Elvira G. DiFabio, Senior Preceptor in Romance Languages and Literatures (*Undergraduate Adviser in Italian-spring term*)

Bradley S. Epps, Professor of Romance Languages and Literatures and of Studies of Women, Gender, and Sexuality

Francesco Erspamer, Professor of Romance Languages and Literatures

Luis Fernández-Cifuentes, Robert S. and Ilse Friend Professor of Romance Languages and Literatures, Harvard College Professor

Chiara Frenquellucci, Preceptor in Romance Languages and Literatures

Mary M. Gaylord, Sosland Family Professor of Romance Languages and Literatures

Luis M. Girón Negrón, Professor of Romance Languages and Literatures and of Comparative Literature (*Director of Undergraduate Studies and Undergraduate Adviser in Romance Studies*)

Adriana Gutiérrez, Senior Preceptor in Romance Languages and Literatures

Sylvaine Guyot, Assistant Professor of Romance Languages and Literatures

Alice Jardine, Professor of Romance Languages and Literatures and of Studies of Women, Gender, and Sexuality (*on leave 2010-11*)

Clémence Jouët-Pastré, Senior Preceptor in Romance Languages and Literatures (*Undergraduate Adviser in Portuguese and Brazilian Studies and Associate Director of Undergraduate Studies*)

Stacey Katz Bourns, Senior Preceptor in Romance Languages and Literatures

Johanna Damgaard Liander, Senior Preceptor in Romance Languages and Literatures
(*Undergraduate Adviser in Spanish*)

Maria Grazia Lolla, Lecturer on Romance Languages and Literatures

Christie McDonald, Smith Professor of French Language and Literature and of Comparative Literature (*on leave 2010-11*)

Nicole Mills, Preceptor in Romance Languages and Literatures

Giuliana Minghelli, Associate Professor of Romance Languages and Literatures (*Undergraduate Adviser in Italian-fall term*) (*on leave spring term*)

Marlies Mueller, Senior Preceptor in Romance Languages and Literatures

Maria Ospina, College Fellow in the Department of Romance Languages and Literatures



Maria Luisa Parra-Velasco, Senior Preceptor in Romance Languages and Literatures
Lino Pertile, Carl A. Pescosolido Professor of Romance Languages and Literatures
Mylène Priam, Assistant Professor of Romance Languages and Literatures (*Undergraduate Adviser in French*)
José Rabasa, Visiting Professor of Romance Languages and Literatures (*Undergraduate Adviser in Latin American Studies*)
Marat Sanatulloev, Preceptor in Romance Languages and Literatures
Jeffrey Schnapp, Visiting Professor of Romance Languages and Literatures, Professor of Romance Languages and Literatures (*Stanford University*)
Nicolau Sevcenko, Professor of Romance Languages and Literatures
Mariano Siskind, Assistant Professor of Romance Languages and Literatures
Doris Sommer, Ira Jewell Williams, Jr. Professor of Romance Languages and Literatures and of African and African American Studies
Diana Sorensen, James F. Rothenberg Professor of Romance Languages and Literatures and of Comparative Literature (*on leave 2010-11*)
Susan R. Suleiman, C. Douglas Dillon Professor of the Civilization of France and Professor of Comparative Literature (*Director of Graduate Studies*)

Other Faculty Offering Instruction in the Department of Romance Languages and Literatures

Franco Fido, Carl A. Pescosolido Professor of Romance Languages and Literatures, Emeritus
Francisco Márquez Villanueva, Arthur Kingsley Porter Professor of Romance Languages and Literatures, Emeritus

Romance Languages and Literatures offers courses in Catalan, French, Italian, Portuguese, and Spanish, as well as in Latin American Studies, and Romance Studies. Courses appear below under these headings. Letters A-D and numbers 30-99 indicate courses designed primarily for undergraduates. Courses numbered 100-199 are open to both undergraduates and graduate students. 200-level courses are intended primarily for graduate students and, exceptionally, to advanced undergraduates.

Course groupings reflect both progression in level of language study and diversity of thematic focus.

GROUP I: Courses focused on language acquisition. Courses A-D offer beginning and early intermediate instruction in language. Courses 20-59 give special attention to the development of language skills in a variety of literary and cultural contexts. Courses number 59 combine language study and engagement with living language communities in the Boston area.

GROUP II: Courses designed to introduce students to systematic study of literature and culture. Courses 60-69 offer effective bridges between the studies of language, culture, and literature. Courses 70-79 introduce major works and currents of literary history as preparation for 100-level literature courses. Courses 80-99 include specialized undergraduate seminars, tutorials, and independent study. Courses numbered 60-99 require approximately the same level of language proficiency.



GROUP III: Advanced courses in literature and culture. Numbers 100-199 reflect period, regional, and thematic groupings. All courses in this group assume the same degree of language proficiency.

GROUP IV: 200-299 Graduate courses, chiefly seminars.

Additionally, department faculty offer courses (some of which are cross-listed below) in General Education, the Freshman Seminar program, the Department of Literature and Comparative Literature, Visual and Environmental Studies, and in Studies of Women, Gender, and Sexuality, among others. For further offerings in general and comparative Romance literatures, see listings of the Department of Literature and Comparative Literature.

Students interested in earning a foreign language citation in a Romance language should read carefully the sections on Catalan, French, Italian, Portuguese, and Spanish in the description of "Citations in Foreign Language" in the Academic Performance section of the FAS Student Handbook. In general, language courses C and above can count toward a citation if they are taken in sequence and if they meet the criteria set forth in the Student Handbook. Literature courses taught in the target language can normally be taken for citation credit, but students should consult with the Director of Language Programs in Romance Languages and Literatures for exact information.

Several members of the Romance Languages and Literatures faculty offer intensive courses through the Harvard Summer Abroad Program. These courses count for Harvard undergraduate degree credit, and may count for Romance Languages and Literatures concentration credit. For more information please see <http://www.fas.harvard.edu/~rll/undergraduate/study—abroad.html>.

No language courses may be taken Pass/Fail. Graduate students in the Faculty of Arts and Sciences may take language courses (numbered A-54) for a grade of Sat/Unsat, with permission of the course head. All Romance language courses, 100-level and above, may be taken Pass/Fail without course head's signature unless otherwise noted. Undergraduates are free to enroll in 200-level graduate courses only with permission of the course head. No auditors are allowed in lettered language courses or in courses numbered 30 to 69. No one may enter A level courses after the eighth meeting of the class, Acd, Bab, or Dab classes after the first meeting, or C or 30 level courses after the sixth meeting.

Catalan

Primarily for Undergraduates

Catalan Ba. Introduction to Catalan

Catalog Number: 2153

Bradley S. Epps and members of the Department

Half course (fall term). Tu., Th., 3–5 or M., W., 12–2. EXAM GROUP: 17, 18

An introductory course in spoken and written Catalan, the language of approximately ten million people in Spain, France, Italy, and Andorra, and the most widely used of minoritized languages in Europe today. Native Catalan speakers include Antonio Gaudí, Salvador Dalí, Joan Miró,



Antoni Tàpies, Mercè Rodoreda, and Pau Casals. Emphasizing oral communication, reading, and writing, offers students contact with contemporary Catalan culture.

Note: Conducted in Catalan. Knowledge of another Romance language is useful but not essential. May be taken Pass/Fail by undergraduates or Sat/Unsat by GSAS students.

Catalan 20. Catalan Language and Culture: a Multimedia Approach

Catalog Number: 2559

Bradley S. Epps and members of the Department

Half course (spring term). Th., 1:30–3, Tu., 4–5:30. EXAM GROUP: 15, 16, 18

Intermediate course introducing students to Catalan culture and boosting their oral and written skills through a wide range of resources, such as Internet, television, radio, and press. Students will get a taste of various aspects of Catalan culture: art, cinema, music, literature, traditions, cuisine, history, and more.

Note: Conducted in Catalan. May be taken Pass/Fail by undergraduates or Sat/Unsat by GSAS students.

Prerequisite: Catalan Ba, basic knowledge of Catalan, or permission of course head.

***Catalan 91r. Supervised Reading and Research**

Catalog Number: 2578

Bradley S. Epps and members of the Department

Half course (fall term; repeated spring term). Fall: M., W., F., at 11; Spring: M., 2–3:30, Th., 4:30–6.

Tutorial supervision of research on subjects not treated in regular courses. May be used for further language study after Catalan Ax or Ba.

French

All students with some previous French in secondary school are required to take the placement test if they have not taken the SAT II, AP, or IB examinations in French. The term “placement score” or “placement test” hereafter refers to the French placement test given during Freshman Week for freshmen, and usually on the day preceding Registration Day for returning students.

Students who receive a grade of 5 in the College Board Advanced Placement Examinations in French Literature or Language are admitted directly into French courses numbered in the 40s, 50s, and 60s or 70a, 70b, or 70c, with permission of course head, and also into 100-level courses of French literature with permission of course head. For details of Advanced Placement see the pamphlet *Advanced Standing at Harvard College* or contact the Director of the Program of Advanced Standing.

Primarily for Undergraduates

French Aa. Beginning French I - (New Course)

Catalog Number: 12968

Nicole Mills and members of the Department

Half course (fall term; repeated spring term). Fall: M., through Th., at 9, 10, 11, 12, or 1.



Spring: M., through Th., at 10 or 1. EXAM GROUP: Fall: 2, 11; Spring: 3, 12

For students with little or no knowledge of French. Balanced emphasis on speaking, listening, reading, and writing. By the end of the semester, students will have acquired basic fluency and significant knowledge about French and Francophone culture.

Note: French Aa may count toward the language requirement. Open to students who have not previously studied French or who have scored below 300 on the Harvard placement exam. Students who have studied French for two years or more in secondary school must begin at French Ab or higher. May not be taken Pass/Fail. Graduate students at GSAS may take the course Sat/Unsat with permission of course head. Section on-line on the French Aa website.

French Ab. Beginning French II - (New Course)

Catalog Number: 28075

Nicole Mills and members of the Department

Half course (fall term; repeated spring term). Fall: M., through Th., at 10, 12, or 1. Spring: M., through Th., at 9, 10, 11, 12, or 1. EXAM GROUP: Fall: 3, 12; Spring: 2, 11

A continuation of French Aa. Continued emphasis on speaking, listening, reading and writing. Exploration of French and Francophone culture through authentic texts and videos. After French Ab, students should be able to engage in everyday conversation with native speakers and read straightforward texts with relative ease.

Note: French Ab may count towards the language requirement. May not be taken Pass/Fail. Graduate students at the GSAS may take the course Sat/Unsat with the permission of course head. Section on-line on the French Ab website.

Prerequisite: A score no lower than 301 and no higher than 450 on the SAT II test or on the Harvard Placement Test, French Aa, or permission of course head.

***French Acd (formerly *French Bab). Intensive Beginning French: Special Course**

Catalog Number: 8780

Nicole Mills and members of the Department

Full course (fall term; repeated spring term). Fall: M. through F., at 10 and Tu., Th., at 11. Spring: Section I, M. through F., at 10 and Tu., Th., at 11. Section II: M through F., at 12 and Tu. Th. at 1. EXAM GROUP: 3, 12

A complete first-year course for non-requirement students. Provides a solid foundation in French for those with absolutely no prior knowledge of the language. Speaking, listening, reading, and writing are all emphasized, with class time devoted to oral expression. After French Acd, students should be able to engage in everyday conversation with native speakers, and read straightforward texts, both fiction and non-fiction, with relative ease.

Note: May not be used to fulfill the language requirement and may not be taken Pass/Fail or Sat/Unsat. Limited enrollment. Interested students should fill out the on-line request form on the French Acd website by August 24, 2010 (Fall Term) and December 1, 2010 (Spring Term). Individual interviews will be scheduled prior to the first week of classes for Fall Term enrollment and during Fall Term examination period for Spring Term enrollment.

Prerequisite: An advanced knowledge of at least one foreign language but no previous study of French.

French Ax. Reading Modern French

Catalog Number: 2763



Stacey Katz Bourns and members of the Department

Half course (fall term; repeated spring term). Fall: Tu., Th., 10-11:30; Spring: Tu., Th., 10-11:30. EXAM GROUP: 12, 13

An introduction to reading and translating modern French texts for students who require only a basic knowledge of French for research purposes. French Ax presents the principle structures of French grammar in a systematic and coherent manner and, at the same time, makes reading and translation assignments as discipline-specific as possible for each student's needs.

Note: Conducted in English. Not open to students with a score of 500 or above on the Harvard Placement Test or the SAT II French test, to those with more than one year of undergraduate French, or to auditors. May not be used to fulfill the language requirement and may not be taken Pass/Fail, but may be taken Sat/Unsat by GSAS students. See details and section on-line on the French Ax website.

Prerequisite: Some previous study of a Romance language helpful but not necessary. Fluency in English required.

French C. Intermediate French - (New Course)

Catalog Number: 58289

Carole Bergin and members of the Department

Half course (fall term; repeated spring term). M., through Th., at 9, 10, 11, 12, or 1. EXAM GROUP: 2, 11

An intermediate course emphasizing listening, speaking, reading, and writing, and including a study of grammar. Students become familiar with contemporary France through videotapes, feature length films, and multimedia and are introduced to French literature through a variety of texts.

Note: Conducted in French. May count toward the language requirement. May not be taken Pass/Fail, but may be taken Sat/Unsat by GSAS students. Section on-line on the French C website.

Prerequisite: A score no lower than 451 and no higher than 600 on the SAT II test or the Harvard Placement Test; 3 years of French in high school; French A, Ab, Acd, or Bab; or permission of course head.

French 30. Advanced Language Review - (New Course)

Catalog Number: 36981

Carole Bergin and members of the Department

Half course (fall term; repeated spring term). Section I, Tu., Th., 10-11:30; Section II, Tu., Th., 11:30-1. EXAM GROUP: 12, 13

Comprehensive review of French grammar and intensive vocabulary building combined with a focus on French and francophone literature and culture. Students will also fine-tune their oral language skills through a more advanced study of pronunciation, grammar and discourse strategies, while discussing and debating topics of current interest.

Note: Conducted in French. May not be audited or taken Pass/Fail, but may be taken Sat/Unsat by GSAS students. See details and section on-line on the French 30 website.

Prerequisite: A score no lower than 601 and no higher than 680 on the SAT II test or the Harvard Placement test; French C, Ca, Cb; or 25; or permission of course head



French 40. Upper-level French I: Language and Culture - (New Course)

Catalog Number: 74519

Marat Sanatulloev and members of the Department

Half course (fall term; repeated spring term). M., W., F., at 10 or 12. EXAM GROUP: 3

Course in French language and culture designed to enhance facility in all language skills.

Complete grammar review, vocabulary building, emphasizing idiomatic subtleties and issues of linguistic register and stylistics in oral and written communication.

Note: Conducted in French. May not be taken Pass/Fail but may be taken Sat/Unsat by GSAS students.

Prerequisite: French 30 or other French course at the 30 level; 681-720 on the SAT II test or the Harvard Placement test; or permission of course head.

French 50. Upper-level French II: Language and Culture - (New Course)

Catalog Number: 22997

Marat Sanatulloev and members of the Department

Half course (fall term; repeated spring term). Fall: M., W., F., at 12; Spring: M., W., F., at 12. EXAM GROUP: 5

Advanced course in French language and literature designed to develop near-native fluency in written and oral expression. Consolidating grammatical structures, vocabulary building, and stylistic exercises. The course will focus on improving communication skills - written and oral - that enhance the ability to shape students' convictions, state and defend opinions, form arguments, hypothesize, negotiate and persuade others.

Note: Conducted in French. Students may take no more than two courses numbered in the 50s. May not be taken Pass/Fail, but may be taken Sat/Unsat by GSAS students. Section on-line on the French 50 website.

Prerequisite: French 40 or other French course at 40 level; 721-750 on the SAT II test or the Harvard Placement test; or permission of course head.

French 55. Business French

Catalog Number: 7122

Carole Bergin and members of the Department

Half course (spring term). Section I, Tu., Th., 10-11:30; Section II, Tu., Th., 11:30-1. EXAM GROUP: 12, 13

Designed for students working or traveling for business in French-speaking countries. Through audiovisual materials, the Internet, and the French press, students become familiar with the current business and economic climate in France and find out about practices, customs, and "intangibles" that make French businesses different from their American counterparts. Those enrolled may take the Paris Chamber of Commerce and Industry exams and obtain an official diploma attesting to their proficiency in French.

Note: Conducted in French. May not be audited or taken Pass/Fail, but may be taken Sat/Unsat by GSAS students. Students may take no more than two courses numbered in the 50s. See details and section on-line on the French 55 website.

Prerequisite: A score of 721-750 on the SAT II test or the Harvard Placement test; a 40-level course; or permission of course head.



French 59 (formerly French 60). French and the Community

Catalog Number: 13398

Carole Bergin

Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

An advanced French language course, where students will explore Haitian culture in the classroom and in the community: in class through a variety of texts and media, in their community engagement as a vehicle for greater linguistic fluency and better cultural understanding. Students will be placed with community organizations within the Greater Boston area to teach French to Haitian-American children. Introduces students to some methodology for teaching a foreign language.

Note: Interested students must apply in writing no later than August 24, 2010 to Carole Bergin. Students may take no more than two courses numbered in the 50s.

Prerequisite: A French course at the 40 or 50-level, a placement score of 721-750 on the SAT II test or the Harvard Placement test; or permission of course head.

***French 61a (formerly French 48b). Classicism and Modernity: An Introduction to Performance**

Catalog Number: 8290 Enrollment: Limited to 15.

Sylvaine Guyot

Half course (fall term). Tu., 1-3; with required speaking section W., at 3.

We focus on famous French playwrights of both the 17th century (Molière, Corneille, Racine) and the 20th-21st centuries (Ionesco, Sartre, Koltès, Badiou, Largarce, N'Diaye). We will consider the close relationship between classicism and modernity and see how drama explores the major cultural and political trends of each period. Special emphasis paid to pronunciation as well as the ideological power of images through theatrical workshops. The final project consists of an excerpt to be performed.

Note: Conducted entirely in French. May not be taken for credit by students who have previously taken French 48b. May not be taken Pass/Fail, but may be taken Sat/Unsat by GSAS students. Interested students are required to apply in writing to Professor Guyot no later than August 24, 2010.

Prerequisite: French 50 or another French course at the 50 level; 751-780 on the SAT II or the Harvard placement test; or permission of course head.

***French 61f (formerly French 42). Introduction to Francophone Writers**

Catalog Number: 2581 Enrollment: Limited to 15.

Mylène Priam and members of the Department

Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

Designed to introduce students to cultural issues expressed in the works of some leading Francophone writers and through art and films while helping them acquire greater skills and confidence in both oral and written expression. Discussions will focus on issues of identity, exile, tradition and modernity, rural/urban culture.

Note: Conducted in French. May not be taken Pass/Fail, but may be taken Sat/Unsat by GSAS students. Not open to students who have already taken French 42. Students may take no more than two courses at the 60 level (not including French 60). Interested students must apply in writing to Professor Priam no later than August 24, 2010.



Prerequisite: French 50 or another French course at the 50 level; 751-780 on the SATII or on the Harvard placement test in French; or permission of course head.

***French 61h. Being French: Historical and Societal Considerations - (New Course)**

Catalog Number: 89626

Stacey Katz Bourns and members of the Department

Half course (fall term; repeated spring term). M., W., 1–2:30. EXAM GROUP: 6, 7

This course examines the concept of a "French identity" from the principles of the Enlightenment to the contemporary debates and political controversies about national identity. Through the exploration of historical, literary, sociological and philosophical texts, as well as film and multimedia resources, we will focus on individuals, symbolic places, ideological discourses and narratives that have contributed to the formation and questioning of a French national identity.

Note: Conducted entirely in French. May not be taken Pass/Fail, but may be taken Sat/Unsat by GSAS students. Students may take no more than two courses at the 60 level (not including French 60).

Prerequisite: French 50 or another French course at the 50 level; 751-780 on the SAT II or the Harvard placement test; or permission of course head.

***French 61m (formerly French 51). Modern Stories about Paris**

Catalog Number: 0575 Enrollment: Limited to 15.

Stacey Katz Bourns

Half course (spring term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16

This course examines contemporary narratives set in Paris. Students explore writers' and filmmakers' perceptions of Paris and analyze the different ways in which the Parisian experience is presented. By reading and viewing stories about Paris, students gain insights into methods of narration and integrate various techniques into their own writing and speaking. They also develop a sophisticated understanding of how the French language is evolving, especially in its spoken form.

Note: Conducted in French. May not be taken Pass/Fail. Students may take no more than two courses at the 60 level (not including French 60). Not open to students who have already taken French 51. Interested students must apply in writing to Professor Katz no later than December 15, 2010.

Prerequisite: French 50 or another French course at the 50 level; 751-780 on the SAT II or the Harvard placement test; or permission of course head.

***French 61q. Québec Literature: Quiet Revolutions - (New Course)**

Catalog Number: 38104 Enrollment: Limited to 15.

Mylène Priam and members of the Department

Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

An introduction to Québec literature and cinema from the 1950s to the present. This course is designed to hone students' reading, writing, and analytical skills through the exploration of short novels, plays, and films. Students will examine questions regarding language use and attitudes toward language; history; and social change.

Note: Conducted in French. May not be taken Pass/Fail. Students may take no more than two courses at the 60 level (not including French 60). Interested students must apply in writing to Professor Priam no later than December 15, 2010.



Prerequisite: French 50 or another French course at the 50 level; 751-780 on the SAT II or the Harvard placement test; or permission of course head.

French 70a. Introduction to French Literature I: From the Middle Ages to Modernity

Catalog Number: 2865

Tom Conley

Half course (spring term). M., W., at 11, plus one additional hour to be arranged. EXAM GROUP: 4

Readings and discussion of texts of various genres representative of central trends in French literature from the Middle Ages through the 18th century. Emphasis on developing analytical skills by tracing the transformations of ethical, literary, philosophical and social currents.

Note: Conducted in French. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

Prerequisite: A score above 780 on the SAT II test or the Harvard Placement test; equivalent preparation; or permission of course head.

French 70b. Introduction to French Literature II. 19th and 20th Centuries: Moving and Shaking

Catalog Number: 6720

Janet Beizer

Half course (fall term). Tu., Th., at 11, plus one additional hour to be arranged. EXAM GROUP: 13

Significant texts from the nineteenth and twentieth centuries examined in the light of close reading and analysis, with a focus on the significant role played by mobility in the modern world: the wanderer, the émigré, the exile, the hysteric, the itinerant actress, in addition to more socially acceptable travelers and tourists. We'll discuss the evolution, fragmentation, and reinvention of literary forms to correspond to a rapidly modernizing world.

Note: Conducted in French; third hour devoted to discussion of texts studied. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

Prerequisite: A score above 780 on the SAT II test or the Harvard Placement test, equivalent preparation, or permission of course head.

French 70c. Introduction to French Literature III: The Francophone World

Catalog Number: 6432

Mylène Priam

Half course (fall term). Tu. 1-3, plus one additional hour to be arranged.

Studies literature, and film from Sub-Saharan Africa, the Maghreb and the French West Indies. Discussions centered on questions of cultural identities, diglossia, colonization, diaspora, trauma and memory.

Note: Conducted in French. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

Prerequisite: A score above 780 on the SAT II test or the Harvard Placement test, equivalent preparation, or permission of course head.

***French 91r. Supervised Reading and Research**

Catalog Number: 3954



Mylène Priam and members of the Department and Tutorial Board

Half course (fall term; repeated spring term). Hours to be arranged.

Tutorial supervision of research on subjects not treated in regular courses.

Note: Letter-graded. May not be taken more than twice, and only once for concentration credit.

***French 97. Tutorial—Sophomore Year: The Politics of Poetics: An Introduction to Literary and Cultural Analysis**

Catalog Number: 0173

Verena A. Conley

Half course (spring term). M., 1–3. EXAM GROUP: 6, 7

An introduction to literary and cultural interpretation as it has evolved in French Studies since WWII. Our conversations will be structured around rigorous analysis of key literary works in relation to literary theory, semiotics, psychoanalysis, and politics.

Note: Required of concentrators in French and Francophone Studies in their sophomore year. May also be taken as the Sophomore Tutorial by concentrators in Romance Studies. Open to non-concentrators with permission of course head.

***French 98. Tutorial—Junior Year**

Catalog Number: 0879

Mylène Priam and members of the Department

Half course (fall term; repeated spring term). Hours to be arranged.

Weekly individual instruction for juniors pursuing an honors track, culminating in the writing of a 20-25 page research paper in French

Note: Successful completion of one term of French 98 or equivalent is required of all honors concentrators.

***French 99. Tutorial—Senior Year**

Catalog Number: 2836

Mylène Priam and members of the Department

Full course. Hours to be arranged.

Weekly individual instruction for students writing a senior thesis.

Note: For honors seniors writing a thesis. Successful completion of two terms of French 99 is required of all thesis-track honors concentrators. 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.

Cross-listed Courses

Aesthetic and Interpretive Understanding 25 (formerly Literature and Arts C-55).

Surrealism: Avant-Garde Art and Politics between the Wars

***Freshman Seminar 32z. How to Be a Courtier in the Age of Louis 14 - (New Course)**

For Undergraduates and Graduates

Open to students with 800 on the Harvard Placement Test or SAT II, a score of 5 on the Advanced Placement Test in language or literature, previous coursework at Harvard of an appropriate level, or by permission of course head



French 112. From Singers to Poets: Lyric Poetry in Medieval France (12th to 15th Century)

Catalog Number: 5007

Virginie Greene

Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

Medieval poets created both new poetic forms and new figures of poets. Singers, writers, composers, lovers, dreamers, rhetoricians, moralists, and preachers: poets could be all of those. This course studies how their poetry grew from and elaborated upon the impulse “I have to sing” to become a highly self-conscious art of writing.

Note: Conducted in French.

French 122. Montaigne and the Literature of Encounter - (New Course)

Catalog Number: 96618

Tom Conley

Half course (fall term). Th., 3–5. EXAM GROUP: 17, 18

Studies the *Essais* and the *Journal de voyage* in view of discovery: *experience* of the “self” through alterity. Comparative readings include Rabelais, Thevet, Léry, travel writing and cartographic matter.

Note: Conducted in French.

[French 129. Les masques de l’homme de cour : civilité et société au XVIIe siècle]

Catalog Number: 11357

Sylvaine Guyot

Half course (spring term). Hours to be arranged.

The court of Louis XIV denotes a delicate way of life as well as submission to the king’s absolute power. Explores the way in which literary discourses question the values of 17th century society through the polemical figure of the courtier. Authors include La Bruyère, La Fontaine, Molière, Racine, Bussy-Rabutin, Mme de La Fayette, Mme de Villedieu. Texts by theorists of manners help situate these writers in the context of cultural and political history.

Note: Expected to be given in 2011–12. Conducted in French. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts C.

[French 132b. 20th-Century French Fiction II: The Experimental Mode]

Catalog Number: 1890

Susan R. Suleiman

Half course (fall term). Hours to be arranged.

What are some alternatives to (or subversions of) realism in fiction? We will examine four major experimental currents or movements in 20th-century imaginative writing: Surrealism, the *nouveau roman*, the Oulipo, and *écriture féminine*. Discussion of works by Breton, Bataille, Robbe-Grillet, Sarraute, Queneau, Perec, Duras, Wittig, Cixous, as well as selected critical essays.

Note: Expected to be given in 2011–12. Conducted in French. This course, when taken for a letter grade, meets the General Education requirement for Aesthetic and Interpretive Understanding or the Core area requirement for Literature and Arts A. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past.



French 138. The Eighteenth Century: Postmodern Multiplicities and Monstrosities - (New Course)

Catalog Number: 29989

Mathieu Brunet and Yves Citton

Half course (spring term). M., 1–3. EXAM GROUP: 6, 7

Contrary to its superficial reputation of arrogant and imperialistic rationality, the French 18th century was also a cultural site of experienced, cultivated, and theorized diversity, multiplicity, and heterogeneity. We focus on lesser-known writers (Bordelon, Chassaignon, Potocki, others) as well as better-known ones (Diderot) in order to witness the emergence of a philosophy of multiplicities and a literature of monstrosities. We suggest that the French 18th century was already "postmodern."

Note: Conducted in French.

[French 139b. The 18th Century: Ethical Dilemmas]

Catalog Number: 2223

Christie McDonald

Half course (fall term). Hours to be arranged.

Questions how notions of personhood and otherness inhabit the emergent novel, exploring the way in which events and values are resisted or subsumed in literary discourse and the kind of social and political responsibility that accompanies it. Readings will be taken from the works of Charrière, Gouges, Laclos, Marivaux, Montesquieu, Rousseau, Sade, Voltaire, etc.

Note: Expected to be given in 2011–12. Conducted in French.

French 142. Rencontres et face à face au 17e siècle - (New Course)

Catalog Number: 14882

Sylvaine Guyot

Half course (fall term). W., 1–3. EXAM GROUP: 6, 7

This course explores different types of visual encounters during the 17th century, by considering Early Modern experiences and ways of meeting and seeing others, works of art, spaces. Readings include tragic drama (Hardy, Corneille, Racine), comical histories (Cyrano de Bergerac), galant novels (Madame de Lafayette), treaties of civility, pictorial theory (Le Brun, De Piles), travel literature as well as historical and theoretical texts on the gaze and social behavior (Foucault, Marin, Sontag, Mondzain, Goffman).

Note: Conducted entirely in French.

***French 148b. Mettre en scène les classiques. Monter L'Illusion comique - (New Course)**

Catalog Number: 81511 Enrollment: Limited to 12.

Sylvaine Guyot

Half course (spring term). Tu., 11:30–1 and a required speaking section W., 11-1.

This course focuses on the preparation of a student-led production of *L'Illusion comique*, a French play of the 17th century, and concludes with a performance in French at the end of the semester. To react to the challenges we will face in staging *L'Illusion comique*, we will examine the diversity of performance theories and practices in the 17th century through the close readings of a given set of plays (Racine, Molière, Rotrou, Tristan l'Hermitte), as well as the main trends in the contemporary staging of classical plays, through video versions of recent performances.

Note: Conducted entirely in French. Interested students must apply in writing to Professor Guyot



no later than December 15, 2010. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts B.

Prerequisite: French 48b; French 61a; or permission of instructor

French 155 (formerly French 255). Metamorphoses of the Vampire

Catalog Number: 3630

Janet Beizer

Half course (spring term). Tu., 1–3. EXAM GROUP: 15, 16

The vampire took on a prominent and lasting iconic form -- ironically, as the ever metamorphosing Dracula -- in Bram Stoker's 1897 novel. But the vampire began its sweep through French literature well before its fin-de-siècle apotheosis in Britain. We'll ponder the aesthetic and political uses of the nineteenth-century vampire as it corresponds to cultural fears and desires, as it figures in Baudelaire, Nodier, Balzac, Gautier, Maupassant, Rachilde, Stoker, Coppola, and theory.

Note: Conducted in French. Readings in French (and English).

[French 157. The Hermaphroditic Imagination]

Catalog Number: 1338

Janet Beizer

Half course (spring term). Hours to be arranged.

While official scientific and social positions in the nineteenth century uphold rigid distinctions between women and men, the imaginary life of the period is haunted by the hermaphrodite and other figures that play on the margins of sexual division, challenging the separation of the spheres. We'll read and discuss hermaphroditic fictions chosen from Balzac, George Sand, Gautier, Flaubert, Zola, and Rachilde.

Note: Expected to be given in 2011–12. Conducted in French.

French 161. Walk, Look, Write: Flânerie and Fugue

Catalog Number: 1729

Janet Beizer

Half course (fall term). Tu., Th., at 2. EXAM GROUP: 16

As we read nineteenth-century French texts (e.g.: Balzac, Tristan, Baudelaire, Flaubert, Zola, Rachilde, David-Néel), we'll focus on the figure of the *flâneur* (strolling observer) and the power of his gaze to construct Realism and cultivate Naturalism. Correlatively, as we read the *flâneur*, we'll look for the absent or invisible *flâneuse*, and the even more elusive *fugueuse* (runaway woman). Writing assignments will include both critical essays and creative writing in the mode of what we read.

Note: Conducted in French. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

[French 165. Marcel Proust]

Catalog Number: 4620

Christie McDonald

Half course (fall term). Hours to be arranged.

In Proust's novel, *A la recherche du temps perdu*, questions of time and memory, truth and signification, literature and philosophy converge to ask: who am I? What does it mean to become



a writer? Discussion of Proust's novels and essays, as well as a number of critical texts.

Note: Expected to be given in 2011–12. Conducted in French. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

[French 167. Parisian Cityscapes]

Catalog Number: 7641

Verena A. Conley

Half course (spring term). Hours to be arranged.

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. Readings and viewings include: Assayas, Allouache, Barthes, Baudrillard, de Beauvoir, Cantet, Godard, Kassovitz, Kechiche, Maspero, Perec, Rochefort, Ross, Truffaut, Varda, Rabah Ameur-Zaimeche.

Note: Expected to be given in 2011–12. Conducted in French. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts B.

[French 175. Julia Kristeva: Can Literature Still Change the World?]

Catalog Number: 7207

Alice Jardine

Half course (fall term). Hours to be arranged.

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. Designed for both undergraduates and graduate students looking to understand and evaluate the import of art and literature on the world stage. Special attention will be paid to the question of gender and women in Kristeva's writings.

Note: Expected to be given in 2011–12.

Prerequisite: Excellent reading knowledge of French.

[French 180. "The Words to Say It": Women Writing in French from Colette to Satrapi]

Catalog Number: 4566

Alice Jardine

Half course (fall term). Hours to be arranged.

Motherhood, romantic love, independence, sexuality, citizenship, fantasy, death: these are just some of the themes explored in women's novels, written in French, in the twentieth century. We will read 8 novels together, exploring how they have finally become classics, even given what they say about life and what it means for women to write about it.

Note: Expected to be given in 2013–14.

French 183. Postcolonial Geographies - (New Course)

Catalog Number: 45096

Mylène Priam

Half course (fall term). W., 3–5. EXAM GROUP: 8, 9

Examines how geographies or cultural landscapes are shaped, represented, and symbolized through various contemporary artistic media (literature, cinema, theater) and various tropes (the modern city, the feminine and hybrid body, the island, home, displacement, and memory).



Explores where the postcolonial world and artistic expression meet to give new meaning to the notion of imaginary. Works by L. Trouillot, Gary Victor, Mahamat-Saleh Haroun, Fanta Regina Nacro, Daniel Boukman, Ananda Devi, Schwarz-Bart, others.

Note: Conducted in French.

[French 184. Cinema and the *auteur*]

Catalog Number: 93093

Tom Conley

Half course (spring 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 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts B.

French 185. National Identity and Narrative Representation in 20th-Century Francophone Literature

Catalog Number: 5070

Mylène Priam

Half course (spring term). W., 1–3.

Through works of prominent Francophone authors from various origins who discuss their own comprehension - fictionalized, poetic or autobiographic - of being French and/or African, Cuban, Eastern European, etc., we explore the plural foundations of contemporary France and the question of French cultural, national or social identity to examine, question, deconstruct issues namely of territoriality, boundaries, nomadism, exile, ethnicity, citizenship, notions of Republic, national or continental sentiment.

Note: Conducted in French.

French 188. They Write in French from Egypt, Lebanon, and the Maghreb: Feminine Voices - (New Course)

Catalog Number: 60203

Mylène Priam

Half course (spring term). Th., 3–5. EXAM GROUP: 17, 18

Explores the multifaceted and polyphonic presence on the literary landscape of French expression, of women writers from North Africa, Egypt and Lebanon, whose writings are a continued dialogue between feminist and gender theory, western feminine literature, the defense of the cultural particularities of their regions, and transnationalism. Works by Assia Djebar, Zahia Rahmani, Maïssa Bey, Leïla Marouane, Vénus Khoury-Gata, Andrée Chédid, Soumya Ammar Khodja, Evelyne Accad, Thérèse Aouad-Basbous.

Note: Conducted in French.

[French 190. Albert Camus]

Catalog Number: 7510

Stanley Hoffmann

Half course (spring term). Hours to be arranged.

A study of Camus's writings as a journalist, playwright, novelist and political thinker, and of the



controversies in which he was involved (the fate of Algeria, the occupation and liberation of France, relations with Catholics, Camus's anticommunism, the Camus-Sartre clash). The tension between his art and his commitments, as well as his influence during and after his life will be examined.

Note: Expected to be given in 2012–13. Conducted in French.

Cross-listed Courses

History 1324. French Social Thought - (New Course)

[History of Art and Architecture 159. Image and Text in 16th Century France]

[*Literature 104. On Theory]

Literature 113 (formerly Humanities 16). Existential Fictions: From Saint Augustine to Jean-Paul Sartre and Beyond

[Literature 129. Reading the 18th Century Through 21st-Century Eyes]

***Literature 146 (formerly *Literature 124). Space and Place in Postmodern Culture**

[Literature 150. Colonial and Post-Colonial Spaces: France-North Africa]

Literature 165. The Holocaust and Problems of Representation - (New Course)

Visual and Environmental Studies 192 (formerly Foreign Cultures 21). Cinema and French Culture from 1896 to the Present

[Visual and Environmental Studies 196. Women's Film and Video in France: Agnès Varda, Chantal Akerman and Claire Denis]

Primarily for Graduates

French 200 (formerly French 100). Language, Literature, Style

Catalog Number: 4197

Virginie Greene

Half course (fall term). M., 1–3.

Includes readings of modern (e.g. Jakobson, Benveniste, Ducros, Austin) and pre-modern (e.g. Aristotle, Augustine, Abelard, Dante) criticism, and analyses of passages from French literary texts from the ninth century to the present.

Note: Conducted in French. Required of all graduate students in French.

[French 242. Jean-Jacques Rousseau]

Catalog Number: 8898

Christie McDonald and Stanley Hoffmann

Half course (spring term). Hours to be arranged.

A broad sweep of Rousseau's anthropological, literary, social and political, as well as the autobiographical works. Discussion focused on key themes such as the relation between sentiment and reason, nature and culture, independence and dependence. Readings include the Discours, the Contrat social, Emile, Nouvelle Héloïse, and Les Confessions.

Note: Expected to be given in 2011–12. The language of class discussion will be determined.

Prerequisite: An excellent reading knowledge of French.

French 259. The Culture of Hysteria in Nineteenth-Century France

Catalog Number: 3349



Janet Beizer

Half course (spring term). Th., 1–3.

As we read nineteenth-century medical, literary, and cultural texts, we ask why hysteria flourished in this time and place, and trace the diagnosis as symptom of a broader cultural malaise.

Note: Conducted in French or English, to be determined by class composition. Readings in French.

French 268. "Foreigners" in French, from Beckett to Littell

Catalog Number: 65916

Susan R. Suleiman

Half course (spring term). W., 3–5. EXAM GROUP: 8, 9

Examines fiction and non-fiction by emigrant writers who have chosen French as their literary language. Special attention to themes of memory, history, and foreignness. Works by Beckett, Némirovsky, Sarraute, Kundera, Kristeva, Semprun, Sijie, others.

French 271. Legacies of Post-structuralism: Politics and Aesthetics

Catalog Number: 8448

Verena A. Conley

Half course (fall term). M., 3–5. EXAM GROUP: 8, 9

Focuses on French post-structural thinkers writing today: Nancy, Rancière, Balibar, Badiou. Examines how post-structuralism has evolved to deal with current issues such as cosmopolitanism, migrations, technologies, others. Uses theoretical inquiries, literary texts, film.

[French 274. Hybridization, Intertextuality and Métissage in Literatures from Mauritius, La Réunion & the Caribbean]

Catalog Number: 6398

Mylène Priam

Half course (fall term). Hours to be arranged.

Explores novels, concepts, theories (Créolization, Divers, etc) that challenge any stable notion of identity and help to problematize the definition of postcolonial literatures in French. Works by Glissant, Chamoiseau, Maximin, Condé, Rakotoson, Segalen, Foucault, etc.

Note: Expected to be given in 2011–12. Conducted in French. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts C.

Cross-listed Courses

[Comparative Literature 278. Failure and Change (Graduate Seminar in General Education)]

***Visual and Environmental Studies 270. Proseminar in Film and Visual Studies: History**

Graduate Courses of Reading and Research

Advanced graduate students reading in the field of a proposed doctoral dissertation or working in a field of specific interest not covered by courses may propose individual projects of reading and research to be undertaken under the direction of individual members of the Department.



***French 320. French Literature: Supervised Reading and Research**

Catalog Number: 1798

Janet Beizer 3957, Tom Conley 1908, Verena A. Conley 2250, Virginie Greene 1007, Alice Jardine 7457 (on leave 2010-11), Christie McDonald 1160 (on leave 2010-11), Mylène Priam 5302, and Susan R. Suleiman 7234

***French 330. Direction of Doctoral Dissertations**

Catalog Number: 7843

Janet Beizer 3957, Tom Conley 1908, Verena A. Conley 2250, Virginie Greene 1007, Alice Jardine 7457 (on leave 2010-11), Christie McDonald 1160 (on leave 2010-11), Mylène Priam 5302, and Susan R. Suleiman 7234

Italian

All students with some previous Italian in secondary school are required to take the placement test if they have not taken the SAT II, AP, or IB examinations in Italian. The term "placement score" or "placement test" hereafter refers to the Italian placement test given during Freshman Week for freshmen, and usually on the day preceeding Registration Day for returning students.

Students who receive a grade of 5 in the College Board Advanced Placement Examinations in Italian are admitted directly into Italian courses numbered in the 30s or higher, with permission of the course head. For details of Advanced Placement see the pamphlet Advanced Standing at Harvard College or contact the Director of the Program of Advanced Standing.

Primarily for Undergraduates

Italian Aa. Beginning Italian, I

Catalog Number: 4309

Elvira G. DiFabio and members of the Department

Half course (fall term; repeated spring term). Fall: M., W., F., sections at 9, 10, 12 or 1, and an extra hour on M. 4-5 or F. 2-3. Spring: M., Tu., W., Th., sections at 10 or 2. EXAM GROUP: Fall: 2

For students with little or no knowledge of Italian. Aims at achieving basic communication skills and vocabulary. Emphasis on oral expression and listening comprehension. Course materials include online workbook and lab.

Note: Conducted in Italian. Students whose placement score does not entitle them to enter a more advanced course are assigned to Italian Aa. May not be taken Pass/Fail but may be taken Sat/Unsat by GSAS students. Section on-line on the Italian Aa website. There are four contact hours per week. The conversation hour may be re-arranged to accommodate scheduling conflicts.

Italian Ab. Beginning Italian II

Catalog Number: 7029

Elvira G. DiFabio

Half course (fall term; repeated spring term). Fall: M., W., F., sections at 9 or 10 and an extra



hour M., 4-5 or F., 11-12. Spring: M., W., F., sections at 10, 12, or 1 and an extra hour M. 4-5 or F. 2-3. EXAM GROUP: Fall: 3; Spring: 2

Continuation of Italian Aa, second semester beginning level. Increasing emphasis on reading and writing. Introduction to Italian literature through excerpts from major writers; overview of the history of Italy. Course materials include online workbook and lab.

Note: May not be taken Pass/Fail, but may be taken Sat/Unsat by GSAS students. Section on-line on the Italian Ab website. There are four contact hours per week. Conversation hour may be rearranged to accommodate scheduling conflicts.

Prerequisite: Italian Aa, or a score of 450 or less on the SAT II test or the Harvard Placement test, or a score of 3 or less on the AP Italian exam, or two years of high school Italian, or permission of course head.

[Italian Ax. Reading Italian]

Catalog Number: 4015

Elvira G. DiFabio and members of the Department

Half course (spring term). Hours to be arranged.

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: Expected to be given in 2011–12. Not open to auditors. May not be used to fulfill the language requirement. May not be taken Pass/Fail, but may be taken Sat/Unsat by GSAS students. Section on-line on the Italian Ax website.

***Italian Bab. Intensive Beginning Italian: Special Course**

Catalog Number: 3065 Enrollment: Limited to 15.

Elvira G. DiFabio and members of the Department

Full course (fall term; repeated spring term). Fall: M. through F. at 10, and Tu., Th., at 9;

Spring: M., W., F., at 10, and Tu., Th. at 10-11:30. EXAM GROUP: Fall: 3, 12; Spring: 3, 12, 13

A complete first-year course in one term for students with no knowledge of Italian, focused on developing all four communicative skills. Students are introduced to contemporary Italian culture through a variety of websites, films and cultural readings that include G. Boccaccio's *Andreuccio da Perugia*.

Note: May not be taken Pass/Fail but may be taken Sat/Unsat by GSAS students. Students who have not placed out of the language requirement must take one full year of a language. Italian Bab or Dab taken alone may not be used to fulfill the language requirement. However, there are ways to combine Bab or Dab with another course in order to fulfill the language requirement. Consult Dr. Elvira Di Fabio or the Undergraduate Adviser in Italian for details. Conducted in Italian. Section on-line on the Italian Bab website.

Prerequisite: An advanced knowledge of at least one foreign language, preferably a modern Romance language, but no previous study of Italian.

Italian Ca. Intermediate Italian I: L'italiano con i fumetti

Catalog Number: 3217

Chiara Frenquellucci (fall term), Elvira G. DiFabio (spring term), and members of the Department



Half course (fall term; repeated spring term). Fall: M., W., F., at 12 and W., at 3. Spring: M., W., F., at 12 and W. at 2. EXAM GROUP: 5

Refines and expands the communication skills acquired in Elementary Italian. Students are introduced to contemporary Italian culture through comic books, films, short stories and Nicolò Ammaniti's *Io non ho paura*. Assignments include practice of complex grammatical structures, weekly blog entries, and a collaborative comic book or *fotoromanzo* project.

Note: Conducted in Italian. May not be taken Pass/Fail, but may be taken Sat/Unsat by GSAS students. Section on-line on the Italian Ca website.

Prerequisite: Italian Ab or Bab, or 450-599 on the SAT II test or the Harvard Placement test, or permission of course head.

Italian Cb. Intermediate Italian II: L'italiano con le favole

Catalog Number: 6805

Chiara Frenquellucci (fall term), Elvira G. DiFabio (spring term), and members of the Department

Half course (fall term; repeated spring term). Fall: M., W., F., at 1 and W., at 3. Spring: M., W., F., at 1 and W., at 3. EXAM GROUP: 6

A continuation of Italian Ca. Students experience Italian culture through a variety of readings and films that include traditional and modern folktales. Assignments include practice of complex grammatical structures, weekly blog entries on each group's work in progress, and a student-scripted adaptation and performance of Collodi's *Pinocchio*.

Note: Conducted in Italian. May not be taken Pass/Fail, but may be taken Sat/Unsat by GSAS students. Section on-line on the Italian Cb website.

Prerequisite: Italian Ca or permission of course head.

***Italian Dab. L'italiano con i documentari**

Catalog Number: 7258 Enrollment: Limited to 15.

Elvira G. DiFabio and members of the Department

Full course (spring term). M., W., F., at 12, Tu., Th., 1-3.

A complete second-year course in one term, or the equivalent of Italian Ca and Cb. Students are introduced to contemporary Italian through shorts, documentaries, articles and readings including Carlo Collodi's *Pinocchio*. Assignments include practice of complex grammatical structures, weekly blog entries, and a series of collaborative video projects about Italians and Italian Americans in the Boston area.

Note: May not be taken Pass/Fail. Conducted in Italian. Section online on the Italian Dab website.

Prerequisite: Italian Ab or Bab, 450-599 on the SAT II test or the Harvard Placement test, or permission of course head.

Italian 35. The Language of Art, Music, Food I

Catalog Number: 2659

Elvira G. DiFabio and members of the Department

Half course (fall term). Section I: M., W., F., at 10 with writing workshop on F. at 2; Section II: M., W., F., at 12 with writing workshop on F. at 2. EXAM GROUP: 3

The 35/36 sequence offers insights into Italian society through three major cultural identifiers: art, music, and food. In the Fall term, content focuses on art and/or operatic libretti. For students



with a solid grasp of the fundamentals of Italian grammar. Aims at improving command of the language both in speaking and writing, combined with reading strategies. Practice consists of discussions, exercises in diction, and written reports.

Note: Conducted in Italian. May not be taken Pass/Fail, but may be taken Sat/Unsat by GSAS students. May not be taken for credit by students who have passed Italian 33. Section on-line on the Italian 35 website.

Prerequisite: Italian Cb, Italian S-52, 630 or above on the SAT II test or the Harvard Placement test, or permission of course head.

Italian 36. The Language of Art, Music, Food II

Catalog Number: 5223

Elvira G. DiFabio and members of the Department

Half course (spring term). M., W., F., at 12 and F. at 11. EXAM GROUP: 5

Continuing with the focus on Italian society begun in Italian 35, this course turns to food culture. Aims at advancing students' proficiency in speaking, reading and writing through vocabulary development and extension of control of higher-level syntactical patterns. Practice through class presentations, compositions, and discussions.

Note: Conducted in Italian. May not be taken Pass/Fail, but may be taken Sat/Unsat by GSAS students. Section on-line on the Italian 36 website.

Prerequisite: Italian 35 or permission of course head.

Italian 40. Advanced Oral Expression: Teatro dal vivo

Catalog Number: 0804 Enrollment: Limited to 12.

Chiara Frenquellucci and members of the Department

Half course (spring term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16

Students perfect oral expression and communication skills through the close reading and performance of plays from the Commedia dell'arte to Carlo Goldoni, Giovanni Verga, Eduardo De Filippo and Nobel Prize-winners Luigi Pirandello and Dario Fo. Preparation in diction and presentation techniques culminates in the adaptation and production of a 20th century play performed during the Arts First Festival.

Note: Conducted in Italian. May not be taken Pass/Fail, but may be taken Sat/Unsat by GSAS students. Section on-line on the Italian 40 website.

Prerequisite: Italian 35 or 36; equivalent preparation; or permission of course head. Appropriate for concentrators electing the Italian Studies track.

Italian 41. Italian Cities: Rome

Catalog Number: 64793 Enrollment: Limited to 12.

Chiara Frenquellucci and members of the Department

Half course (fall term). M., W., F., at 1. EXAM GROUP: 6

Focusing on the city of Rome this course explores regional culture(s) and the concept of city-states in the development of Italian identities. The city's *quartieri*, architecture, writers, gastronomy, history and legend are introduced through readings, the web, films, workshops and guests. Through guided practice of journalistic and narrative styles, students narrate their own multimedia virtual tour of the capital or another Italian city.

Note: Conducted in Italian. May not be taken Pass/Fail, but may be taken Sat/Unsat by GSAS students. Section on-line on the Italian 41 website.



Prerequisite: Italian 35 or 36; equivalent preparation; or permission of course head. Appropriate for concentrators electing the Italian Studies track.

[Italian 44. Advanced Italian: Effetto Commedia: What Makes Italians Laugh?]

Catalog Number: 5776

Elvira G. DiFabio and members of the Department

Half course (fall term). Hours to be arranged.

Comedy Italian-style in cinema (from Totò to Benigni) and its origins. Presents students with another dimension of Italian culture, while perfecting their language skills. Problems in composition addressed through short weekly assignments; grammar review in context. Weekly video screenings.

Note: Expected to be given in 2011–12. Conducted in Italian. Section on-line on the Italian 44 website.

Prerequisite: Italian 35 or higher, or permission of course head. Appropriate for concentrators electing the Italian Studies track.

[Italian 50. Literary Translation]

Catalog Number: 5676

Elvira G. DiFabio and members of the Department

Half course (fall term). Hours to be arranged.

Translation from English to Italian, and occasionally from Italian to English, using sample texts from literature, history, and philosophy, as well as texts being considered for publication. Discussion of a variety of styles, literary devices, semantic and cultural distinctions, and structural differences, along with testimony from a number of authors, including Pavese, Eco and Venuti.

Note: Expected to be given in 2011–12. Conducted in Italian. Open to graduate students with permission of course head. Section on-line on the Italian 50 website.

Prerequisite: Italian 44 or higher or permission of course head.

Italian 82. Italian Travels

Catalog Number: 55887 Enrollment: Limited to 12.

Chiara Frenquellucci

Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

Italian travelers and travelers to Italy, both real and imagined, including voyages from Marco Polo to Italo Calvino, exotic adventures by Emilio Salgari and the immigrant experience described by Pap Khouma, Carmine Abate and other "new Italians".

Note: Conducted in Italian.

Prerequisite: Italian 40, 41 or 44; equivalent preparation; or permission of course head.

Appropriate for concentrators electing the Italian Studies track.

[Italian 88 (formerly Italian 83). Italian Popular Culture in the Age of Television]

Catalog Number: 4259

Giuliana Minghelli

Half course (spring term). Hours to be arranged.

Introduction to Italian popular culture through songs, TV shows, comics, popular films and fiction. Texts will be read against the socio-historical context of the early sixties "miracolo



economico," the political upheaval of the late sixties and seventies, the "riflusso" of the eighties, the political "glasnost" of the nineties and up to contemporary times. We will discover and analyze competing inscriptions of "Italianness" and the ongoing creation of their meaning over the past half-century.

Note: Expected to be given in 2012–13. Conducted in Italian.

Prerequisite: Italian 40, 41 or 44; equivalent preparation; or permission of course head.

Appropriate for concentrators electing the Italian Studies track.

***Italian 91r. Supervised Reading and Research**

Catalog Number: 2287

Elvira G. DiFabio (spring term), Giuliana Minghelli (fall term), 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.

Note: Letter-graded. May not be taken more than twice, and only once for concentration credit.

***Italian 96r. Italian and the Community: Italy. Academic Internships in Italian Language and Culture**

Catalog Number: 3749

Elvira G. DiFabio and members of the Department

Half course (fall term; repeated spring term). Fall: W., 1–3; Spring: Th., 3–5. EXAM GROUP:
Spring: 17, 18

An opportunity to engage in the practical applications of Italian language and culture in an immersion environment. Internships may include placement in a variety of sectors, including public education, the media and the arts.

Note: Though academic internships may be arranged in the Greater Boston area, this course can be proposed as integral to a study abroad program in Italy, the details of which are to be coordinated in consultation with the course head and the Office of International Programs. Students are expected to produce substantial research papers based on relevant class work and field placements. The student, under the guidance of faculty and study abroad advisers, is responsible for arranging the terms of the internship. Hours may be subject to change to accommodate scheduling conflicts.

Prerequisite: Consent of Course Head.

***Italian 97. Tutorial—Sophomore Year**

Catalog Number: 1795

Elvira G. DiFabio and members of the Department

Half course (spring term). Hours to be arranged.

Weekly individual tutorial supervision designed to introduce sophomores to conducting research in the field of Italian Studies.

Note: Conducted in Italian. Successful completion of one term of Italian 97 (or equivalent) is required of concentrators.

***Italian 98. Tutorial—Junior Year**

Catalog Number: 1167

Giuliana Minghelli (fall term), Elvira G. DiFabio (spring term), and members of the Department

Half course (fall term; repeated spring term). Hours to be arranged.



Weekly individual instruction for juniors pursuing an honors track, culminating in the writing of a 20-25 page research paper in Italian.

Note: Successful completion of one term of Italian 98 (or equivalent) is required of all honors concentrators.

***Italian 99. Tutorial — Senior Year**

Catalog Number: 7840

Giuliana Minghelli (fall term), Elvira G. DiFabio (spring term), and members of the Department Full course. Hours to be arranged.

Weekly individual instruction for students writing a senior thesis in Italian.

Note: Successful completion of two terms of Italian 99 is required of all thesis-track honors concentrators.

For Undergraduates and Graduates

Italian 116. Visions of the Renaissance

Catalog Number: 1211

Francesco Erspamer

Half course (spring term). M., 1–3, W., at 1. EXAM GROUP: 6, 7

A survey of the one hundred years that changed the world. Each week the analysis of a visual image introduces the class to a text and a concept. Readings include Machiavelli, Castiglione, Michelangelo, Vasari, Galileo.

Note: Conducted in English and Italian. All students are required to attend the Wednesday class (conducted in English). On Mondays, students can choose between the 1-2pm or the 2-3pm class hour according to language preference; one hour on Mondays taught in English, the other in Italian.

Italian 131. Authoring the *Commedia* (Dante and the Classical Tradition) - (New Course)

Catalog Number: 49715

Jeffrey Schnapp (Stanford University)

Half course (fall term). Tu., 1–3. EXAM GROUP: 15, 16

Built around a close reading of Dante's *Commedia*, the seminar will examine the poem's critical and imitative dialogue with its principal Latin sources, as well as its points of intersection with Dante's other writings and with the vernacular literature of his epoch.

Note: Conducted in English. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

Italian 136 (formerly Italian 148). Cultural Migrations Between Africa and Italy

Catalog Number: 4618

Giuliana Minghelli

Half course (fall term). Th., 1–3. EXAM GROUP: 15, 16

From the novels of Emilio Salgari, written at the height of the Italian colonial adventure, to the comics of Hugo Pratt and postmodern films of Pasolini and Antonioni, this course will investigate the representation of Africa in Italian culture. And reversing the gaze, what is the image of Italy in the texts of recent African immigrant writers?



Note: Conducted in Italian or English, depending on class composition.

Prerequisite: Reading knowledge of Italian.

[Italian 141. Renaissance Epic]

Catalog Number: 5328

Francesco Erspamer

Half course (fall term). Hours to be arranged.

Arguably the masterpiece of the Italian Renaissance, Torquato Tasso's *Jerusalem Delivered* addressed the fears and opportunities triggered by global explorations, new technologies, and the making of the modern self. A close reading of the poem will be preceded by a survey of the epic tradition, from Homer and Virgil to the *Chanson de Roland* and Ariosto's *Orlando Furioso*.

Note: Expected to be given in 2011–12. Conducted in Italian.

Italian 163 (formerly Italian 113). On the Road: Journeys in Italian Cinema

Catalog Number: 3827

Giuliana Minghelli

Half course (fall term). Tu., 11:30-1, and a required film screening M. 4-6:30. EXAM GROUP: 13, 14

Explores cinematic and literary use of the road as an alternative to controlled environments from Fascism to the present. From early road movies like Luchino Visconti's *Ossessione* to migration films like Gianni Amelio's *Lamerica*, the course explores how roads map social change, ethnographic observations, memory and forgetting and the hopes and fears of a rapidly evolving nation.

Note: Conducted in English

[Italian 166 (formerly Italian 176). Italian Modernism]

Catalog Number: 3800

Giuliana Minghelli

Half course (fall term). Hours to be arranged.

In what sense can we speak of an Italian Modernism? This course will examine the Italian contribution to the Modernist project by analyzing key issues in reference to disruptive texts: the crisis of the naturalist aesthetic in D'Annunzio's fiction and Pirandello's drama; the various embodiments of the "diseased" subject of Modernism vis-à-vis the rise of Fascism.

Note: Expected to be given in 2011–12. Conducted in Italian.

Italian 171. Cultural History and Nation-Making: 1870-1920

Catalog Number: 4705

Maria Grazia Lolla

Half course (spring term). M., W., at 10 and a required section W., at 11. EXAM GROUP: 3

Introduction to the contested cultural history of the newly-made Italy: war, work, education, popular culture, fashion, festivals and cooking. Students will explore the interaction between literary texts and other cultural forms.

Note: Conducted in English.

[Italian 174. On Beauty: History and Representation]

Catalog Number: 4364



Francesco Erspamer

Half course (spring term). Hours to be arranged.

Studies the development of the idea of beauty (and ugliness) in Western culture and theory, with examples mostly taken from Italian literature and film, including Petrarch, Veronica Franco, Tasso, d'Annunzio, the Futurists, Fellini, Muccino.

Note: Expected to be given in 2011–12. Conducted in English.

Cross-listed Courses

[History of Art and Architecture 152. Italian Renaissance Art]

Linguistics 110. Introduction to Linguistics

Primarily for Graduates

Italian 201r (formerly Italian 201). Italian Studies Colloquium

Catalog Number: 6124

Francesco Erspamer

Half course (spring term). W., 4:30–7 p.m. EXAM GROUP: 9

Current scholars in the field of Italian Studies present their most recent works.

Note: Conducted in Italian.

Italian 202r. Seminar in Italian Studies -- Censorship and Culture in Renaissance Italy

Catalog Number: 55096

Giorgio Caravale

Half course (fall term). Tu., 3–5. EXAM GROUP: 17, 18

This seminar focuses on the Church's attempt to control ideas and book circulation in early-modern Italy, and on its effects on Italian culture.

Note: Conducted in Italian.

Italian 262. About Time: Nostalgia, Apocalypse, and Change in Italian Culture

Catalog Number: 3847

Francesco Erspamer

Half course (fall term). W., 2:30–5. EXAM GROUP: 8, 9

Studies the development of the idea of Time in modern thought, with examples mostly taken from Italian literature. Readings include Galileo, Vico, Leopardi, Pirandello and the Futurists, Carlo Levi, Tomasi da Lampedusa, Calvino.

Note: Conducted in Italian.

Cross-listed Courses

History of Science 290. Critical History: Curating Images, Objects, Media: Seminar - (New Course)

Graduate Courses of Reading and Research



See Note to Graduate Courses of Reading and Research in French.

***Italian 320. Italian Literature: Supervised Reading and Research**

Catalog Number: 4834

Francesco Erspamer 5074, Franco Fido 2446, Giuliana Minghelli 4442, and Lino Pertile 3416

***Italian 330. Direction of Doctoral Dissertations**

Catalog Number: 3679

Francesco Erspamer 5074, Franco Fido 2446, Giuliana Minghelli 4442 (on leave spring term), Lino Pertile 3416, and Jeffrey Schnapp (Stanford University) 6277 (fall term only)

Latin American Studies

Latin American Studies is an interdisciplinary concentration administered through Romance Languages and Literatures (RLL). Literature, History, Government, and Anthropology are among the sites where Latin American specialists offer a range of methods and materials to approach a complex cultural space. For additional courses offered in RLL in the field of Latin American Studies, see listings under Portuguese and Spanish.

Primarily for Undergraduates

Latin American Studies 70. Modernity, Culture and Politics in Latin America

Catalog Number: 3379

Mariano Siskind

Half course (spring term). M., 3-5 and an additional section hour to be arranged. EXAM

GROUP: 8, 9

Introduces students to central debates and problems that have shaped Latin American culture. We address questions of cultural identity, gender, race, politics, and aesthetics by looking at historical and literary texts, films, visual arts and urban development from an interdisciplinary perspective. We analyze colonial encounters and gendered subjectivities; the Haitian, Mexican, and Cuban revolutions; US-Latin American Relations; popular cultures; Latin American cities from Brasilia to Ciudad Juárez; and memory, trauma and traces of dictatorships.

Note: Conducted in Spanish. Readings in Spanish and English. This course, when taken for a letter grade, meets the Core area requirement for Foreign Cultures.

Latin American Studies 90b. Gender, Writing, and Subalternity in the Americas - (New Course)

Catalog Number: 62908

José Rabasa

Half course (spring term). M., W., F., at 2.

This course will explore the relationship between gender and writing in the context of the Americas. We read testimonials by women from seven different regions: Bolivia, Guatemala, Brazil, Mexico, Jamaica, Argentina, and US Latinas.

Note: Conducted in English or Spanish



Latin American Studies 91r. Supervised Reading and Research - (New Course)

Catalog Number: 17128

José Rabasa

Half course (fall term; repeated spring term). Hours to be arranged.

Tutorial supervision of research on subjects not treated in regular courses.

Note: Letter-graded. May not be taken more than twice, and only once for concentration credit.

***Latin American Studies 98. Tutorial—Junior Year**

Catalog Number: 1224

José Rabasa and members of the Department

Half course (fall term; repeated spring term). Hours to be arranged.

Weekly individual instruction for juniors pursuing an honors track, culminating in the writing of a 20-25 page research paper in either Spanish or Portuguese.

Note: Successful completion of one term of Latin American Studies 98 (or equivalent) is required of all honors concentrators in their junior year.

***Latin American Studies 99. Tutorial—Senior Year**

Catalog Number: 7959

José Rabasa and members of the Department

Full course. Hours to be arranged.

Weekly individual instruction for honors seniors writing a thesis.

Note: Successful completion of two terms of Latin American Studies 99 is required of all thesis-track honors concentrators. To enroll, see the Undergraduate Adviser in Latin American Studies.

For Undergraduates and Graduates

Cross-listed Courses

African and African American Studies 123. Slaps and Embraces: Minority Literature in the Americas - (New Course)

Studies of Women, Gender, and Sexuality 1226. Sex and Power in Modern Latin America and U.S. Latino Culture

Portuguese

The term “placement score” or “placement test” below and in the various course descriptions refers to the Portuguese placement test given during Freshman Week for freshmen, and usually on Registration Day for returning students.

Primarily for Undergraduates

Portuguese A. Beginning Portuguese

Catalog Number: 7130

Clémence Jouët-Pastré and members of the Department

Full course (indivisible). M., W., F., at 12. EXAM GROUP: 5



Designed to introduce the student with little or no knowledge of the language to the Portuguese-speaking world. Teaches fundamental communication skills—understanding, speaking, reading, and writing—and, at the same time, provides exposure to the culture and civilization of Brazil and Portugal through media broadcasts, literature readings, films, music, and videotapes. By the end of the course, students should be able to communicate easily with native speakers as well as be acquainted with basic elements of Luso-Brazilian culture.

Note: Conducted in Portuguese. May not be taken Pass/Fail but may be taken Sat/Unsat by GSAS students. Not open to auditors. Section on-line on the Portuguese A website.

Portuguese Ac. Beginning Portuguese for Spanish Speakers

Catalog Number: 0430

Clémence Jouët-Pastré and members of the Department

Half course (fall term). M., W., F., at 12 or 1. EXAM GROUP: 5

An introductory language course designed for Spanish-speakers. Along with the fundamental communication skills—understanding, speaking, reading and writing—the course will focus on those features of Portuguese which are most difficult for Spanish speakers: pronunciation, idioms and grammatical structures particular to Portuguese. Students will be introduced to the cultures of the Portuguese-speaking world through readings and authentic materials, including films, music, and videotapes.

Note: Conducted in Portuguese. Requires a solid knowledge of but not necessarily native proficiency in Spanish. May not be taken Pass/Fail, but may be taken Sat/Unsat by GSAS students. Not open to auditors. Section on-line on the Portuguese Ac website.

Prerequisite: 750 on the Spanish SAT II or the Harvard Placement test; 5 on the Spanish AP test; or a 40s level Spanish course.

Portuguese Ad. Beginning Portuguese for Spanish Speakers

Catalog Number: 1315

Clémence Jouët-Pastré and members of the Department

Half course (spring term). M., W., F., at 12 or 1. EXAM GROUP: 5

A continuation of Portuguese Ac. By the end of the second term, students should be able to communicate easily with native speakers and be acquainted with basic elements of Luso-Brazilian culture.

Note: Conducted in Portuguese. May not be taken Pass/Fail, but may be taken Sat/Unsat by GSAS students. Not open to auditors. Section on-line on the Portuguese Ad website.

Prerequisite: Portuguese Ac.

Portuguese Ba. Introduction to Portuguese

Catalog Number: 0514

Clémence Jouët-Pastré and members of the Department

Half course (spring term). Section I, M., W., 3-5; Section II, Tu., Th., 3-5. EXAM GROUP: 8, 9

A basic introductory course for students who can devote only one term to the study of Portuguese. Teaches fundamental communication skills—understanding, speaking, reading and writing—but does not offer a complete study of grammar.

Note: Conducted in Portuguese. May not be taken Pass/Fail, but may be taken Sat/Unsat by GSAS students. Not open to auditors. Section on-line on the Portuguese Ba website.



Portuguese Ca. Intermediate Portuguese I

Catalog Number: 7692

Clémence Jouët-Pastré and members of the Department

Half course (fall term). Section I, M., W., 2-3:30; Section II, Tu., Th., 11:30-1. EXAM GROUP: 7, 8

A beginning intermediate course for students interested in expanding and strengthening their basic Portuguese linguistic skills. Reading, writing, and conversational competency is emphasized through the study of the Luso-African-Brazilian cultures. The course aims to promote cross-cultural understanding through the use of authentic materials such as literary texts, multimedia, film, music, and videotapes.

Note: Conducted in Portuguese. Recommended for students who wish to improve their ability to speak and write Portuguese. May not be taken Pass/Fail. Section on-line on the Portuguese Ca website.

Prerequisite: Portuguese A or permission of course head.

Portuguese Cb. Intermediate Portuguese II

Catalog Number: 2799

Clémence Jouët-Pastré and members of the Department

Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

Aims to further develop the four communicative skills while expanding students' background knowledge of the history and cultures of the Portuguese-speaking world. Portuguese Cb covers the important grammar points not studied in Portuguese Ca.

Note: Conducted in Portuguese. May not be taken Pass/Fail, but may be taken Sat/Unsat by GSAS students. Section on-line on the Portuguese Cb website.

Prerequisite: Portuguese Ca or permission of course head.

Portuguese 37. Brasil hoje: Contemporary Brazilian Culture through Media

Catalog Number: 5024

Clémence Jouët-Pastré

Half course (fall term). Section I, M., W., 2:30-4; Section II, Tu., Th., 11:30-1. EXAM GROUP: 7, 8

Engages in systematic grammar review, along with practice in writing and vocabulary enrichment, while examining contemporary Brazil as presented in Portuguese-language press, television, literature, and film. Analyzes the ways Brazilians and non-Brazilians construct different and conflicting images of Brazil and "Brazilianness." Issues of race relations, national identity, ethnicity, and gender addressed. Discussions based on historical and literary texts, advertisements, films, videotapes of Brazilian television, and current issues of newspapers and magazines.

Note: Conducted in Portuguese. May not be taken Pass/Fail, but may be taken Sat/Unsat by GSAS students.

Prerequisite: Portuguese Ca/Cb or permission of course head.

Portuguese 44 (formerly Portuguese 38). Images of Brazil: Contemporary Brazilian Cinema

Catalog Number: 8893

Clémence Jouët-Pastré



Half course (spring term). M., W., 2:30-4. EXAM GROUP: 7, 8

Examines major Brazilian films in their historical, political, and social context. Class discussion also focuses on documentaries, reviews, and critical articles. In-depth textual and grammatical analysis, vocabulary building, reflections on the similarities and differences of the oral and written Portuguese will lead students to achieve a high level of competency.

Note: Conducted in Portuguese. May not be taken Pass/Fail, but may be taken Sat/Unsat by GSAS students. Section on-line on the Portuguese 44 website.

Prerequisite: Portuguese Ca/Cb or permission of course head.

Portuguese 59 (formerly Portuguese 60). Portuguese and the Community

Catalog Number: 3322

Clémence Jouët-Pastré and members of the Department

Half course (spring term). Tu., Th., 11:30-1, and four hours of activity-based learning per week.

EXAM GROUP: 13, 14

An advanced language course examining the Luso-African-Brazilian experience in the US. Promotes community engagement as a vehicle for greater linguistic fluency and cultural understanding. Students will be placed with Boston-area community organizations and agencies. Class work focuses on readings and films by and about Luso-African-Brazilians and specific uses of Portuguese language from these communities. Authors include D. Macedo, Braga Martes, Margolis, Sales, Albues, and Villas Boas.

Note: Section on-line on the Portuguese 60 website.

Prerequisite: Portuguese 37, 44 or a score of 100 on the Harvard Placement Test.

***Portuguese 91r. Supervised Reading and Research**

Catalog Number: 5589

Clémence Jouët-Pastré and members of the Department and Tutorial Board

Half course (fall term; repeated spring term). Hours to be arranged.

Advanced reading in topics not covered in regular courses.

Note: Letter-graded. Limited to juniors and seniors. May not be taken more than twice, and only once for concentration credit.

***Portuguese 97. Tutorial — Sophomore Year**

Catalog Number: 5769

Clémence Jouët-Pastré and members of the Department

Half course (spring term). F., 1-3 and an additional hour to be arranged. EXAM GROUP: 6, 7

Introduces students to the complexities of literary and cultural analysis of Brazilian texts.

Note: Successful completion of Portuguese 97 is required of all concentrators in Portuguese and Brazilian Studies in their sophomore year. May also be taken as the Sophomore Tutorial by concentrators in Latin American Studies and Romance Studies.

***Portuguese 98. Tutorial — Junior Year**

Catalog Number: 8667

Clémence Jouët-Pastré and members of the Department

Half course (fall term; repeated spring term). Hours to be arranged.

Weekly individual instruction for juniors pursuing an honors track, culminating in the writing of a 20-25 page research paper in Portuguese.



Note: Successful completion of Portuguese 98 (or equivalent) is required of all honors concentrators in Portuguese-Brazilian Studies. To enroll see course head.

***Portuguese 99. Tutorial — Senior Year**

Catalog Number: 8753

Clémence Jouët-Pastré and members of the Department

Full course. Hours to be arranged.

For honors seniors writing a thesis. Successful completion of one term of Portuguese 99 is required of all honors concentrators. To enroll, see course head.

For Undergraduates and Graduates

[Portuguese 122a. Introduction to the Literature of Portugal I]

Catalog Number: 2943

Joaquim-Francisco Coelho

Half course (fall term). Hours to be arranged.

The main currents of Portuguese literature. Emphasis on major authors, literary schools, and socio-aesthetic ideas from Gil Vicente and Camões to Eça de Queiroz, Fernando Pessoa, Jorge de Sena and José Saramago. Aims to teach students to read Portuguese texts and to think and write about them in a broad Western European context.

Note: Expected to be given in 2011–12. Conducted in Portuguese and English, according to class composition.

Prerequisite: Excellent reading knowledge of Portuguese required.

[Portuguese 122b. Introduction to the Literature of Portugal II]

Catalog Number: 9754

Joaquim-Francisco Coelho

Half course (spring term). Hours to be arranged.

A continuation of Portuguese 122a.

Note: Expected to be given in 2012–13. Conducted in Portuguese and English, according to class composition.

Prerequisite: Excellent reading knowledge of Portuguese.

Portuguese 141. The Short Stories of Machado de Assis

Catalog Number: 8700

Joaquim-Francisco Coelho

Half course (fall term). M., 3–5. EXAM GROUP: 8, 9

Analyzes Machado's short stories in chronological order of composition, emphasizing their social content, the idiosyncratic behavior of their characters, and the author's use of language to convey the ambiguities of human nature.

Note: Conducted in Portuguese and English.

Portuguese 171. Texts, Images, Gestures, and Sounds: A Brazilian Poetics of the Senses

Catalog Number: 9449

Nicolau Sevcenko

Half course (fall term). W., 5–7 p.m. EXAM GROUP: 9



A comprehensive and diversified overview of contemporary Brazilian culture (post-WWII), involving not just literature and poetry, but also the visual arts, theatre, music, dance, architecture and urbanism. The course will cover both popular and mainstream culture.

Note: Conducted in Portuguese.

[Portuguese 172. Culture and Popular Culture: clashes of times, territories, languages and imaginations]

Catalog Number: 72576

Nicolau Sevcenko

Half course (spring term). Hours to be arranged.

Studies the richness and peculiarities of Brazilian popular culture, resonant of mythical and symbolical contents brought from ancient and medieval times, as well as its convergences, frictions, clashes and subversions of mainstream Brazilian culture.

Note: Expected to be given in 2011–12. Especially for undergraduates. Conducted in Portuguese.

Portuguese 180. Themes of Enchantment, Radiance and Epiphany in Brazilian Culture - (New Course)

Catalog Number: 29198

Nicolau Sevcenko

Half course (spring term). W., 5–7 p.m. EXAM GROUP: 9

Brazilian culture is characterized by strong, diverse, and very peculiar spiritual legacies coming from its three main sources: Luso-European, African, and Native. They are expressed not only in literary works, but throughout cultural creations of all kinds, verbal and non-verbal, visual and aural, popular and mainstream.

Note: Conducted in Portuguese.

Cross-listed courses

Linguistics 110. Introduction to Linguistics

Primarily for Graduates

Portuguese 218 (formerly Portuguese 118). Major Poems of the Portuguese Language I

Catalog Number: 2192

Joaquim-Francisco Coelho

Half course (fall term). W., 3–5. EXAM GROUP: 8, 9

Studies the major lyrical texts of the Portuguese language, from medieval times to the present. Emphasis on poetry written in Portugal and Brazil after 1900. Focuses on the formal aspects of poetry (meter, rhyme, rhythm).

Note: Conducted in Portuguese.

Portuguese 219 (formerly Portuguese 119). Major Poems of the Portuguese Language II]

Catalog Number: 3242

Joaquim-Francisco Coelho

Half course (spring term). Hours to be arranged.



A continuation of Portuguese 218.

Note: Expected to be given in 2011–12. Conducted in Portuguese.

[Portuguese 222. Introduction to Camões]

Catalog Number: 27255

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 2011–12. Conducted in Portuguese.

Portuguese 261. Questions of the National, the Transnational and the Post-National in Brazilian Literature and Culture - (New Course)

Catalog Number: 65613

Nicolau Sevcenko

Half course (fall term). Th., 5–7 p.m.

Focusing on the 19th, 20th, and 21st centuries, the course will analyze the successive waves of technological transformation which impacted the Brazilian economy, society, and culture, engulfing it in the ongoing streams of globalization.

Portuguese 269. The Critique, the Canon, the Archives and the Museification of Brazilian Culture - (New Course)

Catalog Number: 95827

Nicolau Sevcenko

Half course (spring term). Th., 5–7 p.m. EXAM GROUP: 18

With national independence in the 19th century came the institutions that shaped the officialdom of Brazilian culture: the press, public debates, academies, archives, collections, galleries, museums, critics, curators, historians, censors. Do they help cultural creativity?

Note: Conducted in Portuguese.

Graduate Courses of Reading and Research

See Note to Graduate Courses of Reading and Research in French.

[*Portuguese 320. Supervised Reading and Research in Iberian Literature]

Catalog Number: 6733

Joaquim-Francisco Coelho 7715

Half course (spring term). Hours to be arranged.

Note: Expected to be given in 2011–12. Subject and hours to be determined and arranged with students.

***Portuguese 321. Literature of Brazil: Supervised Reading and Research**

Catalog Number: 5933

Joaquim-Francisco Coelho 7715 (fall term only) and Nicolau Sevcenko 5229



***Portuguese 330. Direction of Doctoral Dissertations**

Catalog Number: 4072

Joaquim-Francisco Coelho 7715, Bradley S. Epps 2880, Luis Fernández-Cifuentes 2091, Mary M. Gaylord 2632, Nicolau Sevcenko 5229, and Doris Sommer 2744

Romance Languages

See also courses in Linguistics.

Primarily for Graduates

Cross-listed Courses

[Linguistics 200. Second Language Acquisition](#)

Romance Studies

Primarily for Undergraduates

[Romance Studies 79. Romance Languages and Cultures in Comparative Perspective]

Catalog Number: 8713

Elvira G. DiFabio and members of the Department

Half course (spring term). Hours to be arranged.

Highlights of the similarities and differences among the Romance languages, beginning with an overview of the historical development of the Romance languages from Latin, and moving on to the comparison of linguistic identifiers of French, Italian, Portuguese, and Spanish; may also include a discussion of Catalan. Topics will cover comparative phonology, morphology, and syntax, as well as some cross-cultural experiences such as immigration and translation.

Note: Expected to be given in 2011–12. Conducted in English; texts in original and in translation. May not be taken by RLL graduate students to fulfill the history of the language requirement.

Prerequisite: Advanced proficiency in one of the Romance Languages, or permission of the course head.

[*Romance Studies 91r. Supervised Reading and Research](#)

Catalog Number: 8210

Luis M. Girón Negrón and members of the Department and Tutorial Board

Half course (fall term; repeated spring term). Hours to be arranged.

Tutorial supervision of research on subjects not treated in regular courses.

Note: Letter-graded. May not be taken more than twice, and only once for concentration credit.

[*Romance Studies 98. Tutorial—Junior Year](#)

Catalog Number: 5203

Luis M. Girón Negrón and members of the Department

Half course (fall term; repeated spring term). Hours to be arranged.



Weekly individual instruction for juniors pursuing an honors track, culminating in the writing of a 20-25 page research paper in a Romance language.

Note: Successful completion of one term of Romance Studies 98 (or equivalent) is required of all honors concentrators in their junior year.

***Romance Studies 99. Tutorial–Senior Year**

Catalog Number: 1067

Luis M. Girón Negrón and members of the Department

Full course. Hours to be arranged.

Weekly individual instruction for students writing a senior thesis in Romance Studies.

Note: Successful completion of two terms of Romance Studies 99 is required of all thesis honors seniors. To enroll, students must see the Undergraduate Adviser in Romance Studies and submit a thesis prospectus for approval.

Prerequisite: Satisfactory completion of a junior tutorial and faculty approval of proposed thesis topic.

Cross-listed Courses

***Freshman Seminar 38z. Romancing the Kitchen: Food Culture across the Romance Languages - (New Course)**

For Undergraduates and Graduates

Romance Studies 133. How to Behave in Romance

Catalog Number: 5976

Mary M. Gaylord and Sylvaine Guyot

Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

Early Modern writers alike were fascinated by the question of decorum. Moralists like Erasmus, Vives, Luis de León, Faret, Gracián produced manuals designed to spell out gender, class and institutional roles, tailored to new social and political conditions, while poets like Lope de Vega, Ruiz de Alarcón, Calderón, Corneille, Molière, scrutinized decorous and outrageous behavior more playfully in their comedies.

Note: Conducted in English. Readings in original languages and in English translation.

***Romance Studies 191. Crowds - (New Course)**

Catalog Number: 28407 Enrollment: Limited to 20.

Jeffrey Schnapp (Stanford University)

Half course (spring term). M., 3–5. EXAM GROUP: 8, 9

This digital humanities seminar explores the place of multitudes in the Western cultural and socio-political imagination between 1789 and the present, whether from the standpoint of theorizations of the collectivity (Lombroso, Tarde, Le Bon, Sighele, Freud, Ortega, Canetti, Negri) or from that of visual or literary imaginings (Guys, Ensor, Carrà, Rodchenko, Sironi, Krueger; Baudelaire, Valera, Manzoni, Zola, D'Annunzio, Marinetti). Assignments include writing semantic histories and curatorial oversight over a digital gallery.

Note: Open to graduate students and to advanced undergraduates. Conducted in English.



Primarily for Graduates

[Romance Studies 201. Approaches to Theory]

Catalog Number: 0934

Christie McDonald and members of the Department

Half course (spring term). Hours to be arranged.

Major topics in literary/cultural theory addressed by specialists in the Department. Emphasis on both theoretical canons and current disciplinary controversies. Topics include: formalism; semiotics; structuralism; post-structuralism; Marxism; psychoanalysis; deconstruction; cultural, post-colonial, feminist, and queer studies.

Note: Expected to be given in 2011–12. Conducted in English.

[Romance Studies 202. Ethics and Aesthetics (Graduate Seminar in General Education)]

Catalog Number: 2167

Francesco Erspamer and Doris Sommer

Half course (fall term). Hours to be arranged.

Readings alternate between theory and literature/other arts to explore mutual relationships between the social conditions for art-making and art's effects. How do creative practices play into ethics? Does philosophy depend on counter-factual [fictional] imaginings? The seminar will design and develop a General Education course on these themes for undergraduates.

Note: Expected to be given in 2011–12. Conducted in English.

Spanish

All students who have taken Spanish in secondary school are required to take the Placement Test given during Freshman Week for freshmen and usually on Registration Day for returning students.

A score of 5 in the College Board Advanced Placement Examinations in Spanish allows students to take Spanish courses numbered 40 to 90 or, if recommended, 100-level courses. All language courses are conducted in Spanish and include weekly writing assignments. For details, see the pamphlet *Advanced Standing at Harvard College* or apply to the Director of the Program of Advanced Standing.

Primarily for Undergraduates

Spanish Aa. Beginning Spanish I

Catalog Number: 0507

Maria Luisa Parra-Velasco and members of the Department

Half course (fall term; repeated spring term). Fall: M., through Th., at 9, 10, 11, 1 or 2. Spring: M., through Th., at 9 or 2. EXAM GROUP: 2, 11

A basic beginning semester course for students with no previous study of Spanish. Emphasis on speaking, while developing all four language skills. Hispanic culture will be introduced throughout and computer, video and film materials will be used.

Note: Conducted in Spanish. Open to students who have not previously studied Spanish or who



have scored below 300 on the Harvard placement test. May not be taken Pass/Fail, but may be taken Sat/Unsat by GSAS students. Section on-line on the Spanish Aa website. Students who have studied Spanish for two years or more in secondary school must begin at Spanish Ab or higher.

Spanish Ab. Beginning Spanish II

Catalog Number: 3328

Maria Luisa Parra-Velasco and members of the Department

Half course (fall term; repeated spring term). M., through Th., 9, 10, 11, 1 or 2. EXAM GROUP: 2, 11

For students with the equivalent of one semester previous study of Spanish. Emphasis on speaking, reading and writing while including Hispanic culture through contemporary texts and using computer, video and film materials. After Spanish Aa and Ab, students should be able to engage in everyday conversation with native speakers, and read straightforward texts, both fiction and non-fiction, with relative ease.

Note: Conducted in Spanish. May not be taken Pass/Fail, but may be taken Sat/Unsat by GSAS students. Section on-line on the Spanish Ab website. Students who have studied Spanish for two years or more in secondary school must begin at Spanish Ab or higher. Upon the recommendation of the course head, students who have performed at a superior level in this course may enroll in any course for which they are linguistically prepared.

Prerequisite: A score between 301-450 on the SAT II test or on the Harvard Placement Test, Spanish Aa, or permission of course head.

***Spanish Acd. Intensive Beginning Spanish: Special Course**

Catalog Number: 5577

Johanna Damgaard Liander and members of the Department

Full course (fall term; repeated spring term). M. through F., at 9 and Tu., Th., at 10. EXAM GROUP: 2, 11

For students with no previous formal training in Spanish but with competence in at least one foreign language. Emphasis on communication skills. Language instruction supplemented by cultural and literary readings and film.

Note: Not open to auditors. May not be used to fulfill the language requirement. May not be taken Pass/Fail, but may be taken Sat/Unsat by GSAS students. Interested students should contact Dr. Liander by e-mail no later than August 24, 2010 for fall term enrollment and no later than December 15, 2010 for spring term enrollment. Upon the recommendation of the course head, students who have performed at a superior level in this course may enroll in any course for which they are linguistically prepared.

Spanish Ax. Reading Spanish

Catalog Number: 5318

Adriana Gutiérrez and members of the Department

Half course (fall term). Tu., Th., 11:30-1. EXAM GROUP: 13, 14

An introduction to reading and translating modern Spanish texts for students who require only a basic knowledge of Spanish for research purposes. Spanish Ax presents the principal structures of Spanish grammar in a systematic and coherent manner and, at the same time, makes reading and translation assignments as discipline-specific as possible for each student's needs.



Note: Conducted in English. Not open to students with a score of 500 or above on the Harvard Placement Test or on the SAT II Spanish test, to those with more than one year of undergraduate Spanish, or to auditors. May not be used to fulfill the language requirement and may not be taken Pass/Fail, but may be taken Sat/Unsat by GSAS students.

Spanish C. Intermediate Spanish

Catalog Number: 5819

Adriana Gutiérrez and members of the Department

Half course (fall term; repeated spring term). Sections M., T., W., Th. at 9, 10, 11, or 1. EXAM GROUP: 2, 11

An intermediate language and culture class that aims to consolidate and expand the skills of listening comprehension, speaking, reading and writing in Spanish. Includes a comprehensive review of the grammar and reinforces linguistic acquisition through texts, movies, art and multi-media projects to acquaint students with cultural issues relevant to the Spanish-speaking world.

Note: Conducted in Spanish. May not be taken Pass/Fail, but may be taken Sat/Unsat by GSAS students. Section on-line on the Spanish C website. Upon the recommendation of the course head, students who have performed at a superior level in this course may enroll in any course for which they are linguistically prepared.

Prerequisite: Spanish Ab, Acd, 451-600 on the SAT II test or on the Harvard Placement Test, or permission of course head.

Spanish 30. Advanced Language Review through Literature and Culture, I

Catalog Number: 0479

Johanna Damgaard Liander and members of the Department

Half course (fall term; repeated spring term). M., W., F. at 10, 11, or 1. EXAM GROUP: 3

Continues to reinforce the practice of oral and written communication in Spanish through topics in contemporary cultural materials from Spain and Latin America. Students will focus on improving accuracy, refining pronunciation and developing vocabulary. In addition to in-class discussions, course work involves grammar review and practice in writing. Consult course website for current semester topics.

Note: Conducted in Spanish. May not be taken Pass/Fail but may be taken Sat/Unsat by GSAS students. Section on-line on the Spanish 30 website. Upon the recommendation of the course head, students who have performed at a superior level in this course may enroll in any course for which they are linguistically prepared.

Prerequisite: A score between 601-680 on the SAT II test or on the Harvard Placement Test, Spanish C, or permission of course head.

Spanish 40. Advanced Language Review through Literature and Culture, II

Catalog Number: 9393

Johanna Damgaard Liander and members of the Department

Half course (fall term; repeated spring term). Fall: M., W., F., at 10; 11; 1. Spring: M., W., F., at 10; 11; 1. EXAM GROUP: 3, 4

An advanced language and culture class that further develops linguistic competence using a region or regions of the Hispanic world as a focus for class discussion, grammar review, and an introduction to Hispanic social contexts and texts. Course materials may also include films, interviews, painting, photography, music, selections from the press, as well as literary or



historical readings. Frequent written and oral assignments, and a thorough review of grammar. Consult course website for current semester topics.

Note: Conducted in Spanish. May not be taken Pass/Fail, but may be taken Sat/Unsat by GSAS students. Section on-line on the Spanish 40 website. Upon the recommendation of the course head, students who have performed at a superior level in this course may enroll in any course for which they are linguistically prepared.

Prerequisite: A score between 681-720 on the SAT II test or on the Harvard Placement Test, AP 5, Spanish 30, or permission of course head.

Spanish 50. Writing and Performance

Catalog Number: 6794

Adriana Gutiérrez and members of the Department

Half course (fall term; repeated spring term). Fall: Section I, Tu., Th. 11:30-1; Section II, Tu., Th. 1-2:30. Spring: Section I, Tu., Th. 10-11:30; Section II, Tu., Th. 11:30-1; Section III, Tu., Th. 1-2:30. EXAM GROUP: 13, 14

An advanced language course designed to strengthen and develop competence in written expression. Close reading of texts in literary and non-literary genres will help students refine personal style. The performance of short excerpts of plays, combined with advanced work on oral expression and phonetics, will help students increase their fluency and ease of expression. *Note:* Conducted in Spanish. Recommended for concentrators and joint concentrators. May not be taken Pass/Fail, but may be taken Sat/Unsat by GSAS students. Section on-line on the Spanish 50 website.

Prerequisite: A score between 721-750 on the SAT II test or on the Harvard Placement Test, a Spanish 40-level course, or permission of course head.

***Spanish 59 (formerly Spanish 60). Spanish and the Community**

Catalog Number: 8789 Enrollment: Limited to 12.

Maria Luisa Parra-Velasco and members of the Department

Half course (fall term; repeated spring term). Tu., Th., 10-11:30, and four hours of activities-based learning a week. EXAM GROUP: 12, 13

An advanced language course which examines the richness and complexity of the Latino experience in the US while promoting community engagement as a vehicle for greater linguistic fluency and cultural understanding. Students are placed with community organizations within the Boston area and volunteer for four hours a week. Class work focuses on expanding Spanish oral and written proficiency through discussions and analysis of readings and films by and about Latinos in the US.

Note: Interested students must apply in writing to Dr. Parra no later than August 24, 2010 for fall term enrollment and no later than December 15, 2010 for spring term enrollment.

Prerequisite: A score between 721-750 on the SAT II test or on the Harvard Placement Test, Spanish 40 or permission of course head.

***Spanish 61n. Advanced Spanish Language and Culture: The Ethics of Business - (New Course)**

Catalog Number: 17538 Enrollment: Limited to 15.

Adriana Gutiérrez

Half course (spring term). Tu., Th., 10-11:30; Tu., Th., 11:30-1.



An advanced language and culture class that examines literature and films portraying the political, sociological, financial and environmental impact of multinational companies doing business in Latin America. Students' linguistic competency is developed through discussion of the ethics of business, grammar reviews, and weekly writing assignments. Students will also choose a specific project for a business in Latin America and research its possible outcome and social, political, and environmental consequences.

Note: Interested students must apply in writing to Dr. Gutiérrez no later than January 14.

Prerequisite: a score between 751 and 780 on the SAT II test or Harvard Placement test, a Spanish 50-level course, or permission of course head. Students are allowed to take a maximum of two courses at the 60-level in Spanish, not including Spanish 60.

***Spanish 62. Crossing Cultures: Advanced Spanish Through Translation and Creative Writing - (New Course)**

Catalog Number: 99782 Enrollment: Limited to 15.

Daniel Aguirre-Oteiza and members of the Department

Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16

An advanced language course designed to increase understanding of language through close readings and translations that center on Spanish 20th-century history, culture, and society. Students will also refine personal style through creative writing exercises and advanced work on grammar. Course materials may include texts in literary and non-literary genres such as short stories, poems, newspaper articles, graphic novels, memoirs, travel journals, historical essays, documentaries, music lyrics, and movie scripts.

Note: Conducted in Spanish. Recommended for concentrators. Interested students must apply in writing to Dr. Gutiérrez no later than August 24, 2010.

Prerequisite: A score between 751 and 780 on the SAT II test or on the Harvard Placement test, a Spanish 50-level course, or permission of course head. Students are allowed to take a maximum of two courses at the 60-level in Spanish, not including Spanish 60.

Spanish 65. Bilingual Arts

Catalog Number: 9315

Doris Sommer

Half course (spring term). Th., 3–5; Th., at 5; Th., at 5. EXAM GROUP: 17, 18

For heritage speakers and advanced language students, Latino literature, in the forms of poetry, narrative, theater, and film, will be the focus of an in-depth review of grammar and style in Spanish, as well as the uses of Spanish alongside English language arts. A range of artists from Latin American origins will be featured, including those with ties to the Caribbean, Mexico, Central and South America.

Note: Conducted in Spanish. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

Prerequisite: A score no lower than 750 on the SAT II test or on the Harvard Placement Test, a 40- or 50-level course in Spanish, or permission of course head. Students may take no more than two courses at the 60-level (not including Spanish 60).

Spanish 70a. Heroes, Rogues, and Significant Others: Voices from Medieval and Early Modern Spain

Catalog Number: 1587



Mary M. Gaylord

Half course (fall term). M., W., F., at 11. EXAM GROUP: 4

Who are "el Cid", Celestina, Don Quixote, Don Juan? We know these mythic characters and cultural types like the love-struck priest, the *pícaro*, the sentimental Moor, the conquistador, through representations of their spoken words in now-classic works of early Spanish literature. As we explore the texts and historical contexts that produced them, we bring their voices to life once again through dramatic reading and performance.

Note: Conducted in Spanish. This course includes student art-making as part of the Harvard Arts Initiative. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

Prerequisite: A score above 780 on the SAT II or the Harvard Placement test; a 40-, 50-, or 60-level course in Spanish; or permission of course head.

[Spanish 70c. Documenting Spanish Modernity: A Survey of Spanish Literature and Culture from 1700]

Catalog Number: 7713

Luis Fernández-Cifuentes

Half course (fall term). Hours to be arranged.

From philosophical essays to newspaper articles, from romantic tragedy to turn-of-the-century films, from early autobiography to dirty realism, from academic landscape painting to comic strips, this course will present a provocatively diverse set of documents that will help understand Spain's equivocal and frequently contested Modernity.

Note: Expected to be given in 2011–12. Conducted in Spanish. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts C.

Prerequisite: A score above 780 on the SAT II or the Harvard Placement test; a 40-, 50-level, or 60-level course in Spanish; or permission of course head.

[Spanish 71a. Continuity and Discontinuity in Colonial Latin America]

Catalog Number: 4319

José Rabasa

Half course (fall term). Hours to be arranged.

An overview of literary and cultural production in the Americas before and after the Spanish invasion. Topics include pre-Columbian visual and verbal expressions; discovery, invention, conquest, and resistance; the historiography of the New World; native depictions of the colonial world.

Note: Expected to be given in 2011–12. Conducted in Spanish. Required for concentrators in the Hispanic Studies track (as an alternative to Spanish 71b), and mandatory for concentrators in Latin American Studies.

Prerequisite: A score above 780 on the SAT II or the Harvard Placement test; a 40-, 50-, or 60-level course in Spanish; or permission of course head.

Spanish 71b. Introduction to Modern Latin American Literature

Catalog Number: 6700

Sergio Delgado

Half course (fall term). Tu., Th., at 1 and an additional hour to be arranged. EXAM GROUP: 15

This course is a survey of Latin American Literature from the last decades of the 19th century to



the present. It offers an overview of the most salient moments in modern Latin American cultural history, placing emphasis on the ways in which specific literary works relate to the social and political developments that have shaped the region since the late 19th century. Readings by Darío, Martí, Huidobro, Borges, Rulfo, and Vargas Llosa, among others.

Note: Conducted in Spanish. Third hour devoted to discussion of texts studied. This course, when taken for a letter grade, meets the Core requirement for Literature and Arts C.

Prerequisite: A score above 780 on the SAT II or on the Harvard Placement test; a 40-, 50-, or 60-level course in Spanish; or permission of course head.

Spanish 90dq. Who is Don Quixote? - (New Course)

Catalog Number: 78806

Mary M. Gaylord

Half course (spring term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16

Get to know the many who says, "I know who I am", his friends and loves, his models and rivals. This introduction to central episodes of Cervantes' masterpiece asks what it is about Don Quixote's actions, words, convictions and contradictions that makes him ubiquitous in literary and artistic imagination. Course materials include film, music, and visual arts.

Note: Conducted in Spanish. Not open to students who have already taken Spanish 124; may be taken as preparation for Spanish 124.

Spanish 90f (formerly Spanish 139). Trazar y tramar: La selva en la narrativa latinoamericana

Catalog Number: 58592

Maria Ospina

Half course (fall term). W., 3-5 and an additional hour to be arranged.

An exploration of the ways in which Latin American jungles have been plotted by fiction, films and testimonies throughout the 20th century and today. We will investigate the construction of jungle as a cultural space where diverse anxieties about sovereignty, nationhood, race, development, gender and subversion collide, and think about this topo-graphy in relation to projects of modernization, and in the context of recent global angst over the environment and its destruction.

Note: Conducted in Spanish.

Spanish 90gc. You Will Win, But You Won't Convince: Discussing the Spanish Civil War - (New Course)

Catalog Number: 14423

Daniel Aguirre-Oteiza and members of the Department

Half course (fall term). M., W., 1–2:30. EXAM GROUP: 6, 7

Examines the Spanish Civil War (1936-39) as a key event for understanding the "causes" that shaped 20th-century Spanish history, culture, and society, through study of written and visual texts ranging from the years prior to the conflict up to the present. A key issue is the analysis of the relation between memory, history, and representation in cultural works (narrative, poetry, film, visual arts, comic books, etc.)

Note: Conducted in Spanish.



Spanish 90j. La juventud latinoamericana en el cine y la literatura

Catalog Number: 43485

Maria Ospina

Half course (spring term). Tu., 3-5 and an additional hour to be arranged.

An exploration of Latin American literature and film about childhood and youth in the 20th and 21st century. Youth, a fundamental concept for political projects also serves as the focus of a wide array of issues: crime, poverty, political activism and repression, sexism, racism, and marginalization. What does it mean to speak for a child? How do texts about growing up in Latin America reflect on subject formation and social relations in the region?

Note: Conducted in Spanish. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts C.

Spanish 90n. Border Flux and Border Subjects: Cultural Practices of the US-Mexico Border - (New Course)

Catalog Number: 27284

Sergio Delgado

Half course (spring term). W., 3-5pm and an additional hour to be arranged. EXAM GROUP: 8, 9

This course is structured around a set of art and literary works that engage the US-Mexico border. It seeks to understand the fluid nature of the border region along with its recurring themes and dynamics, focusing on the complex links between literary texts, artistic practices, and the increasingly pressing social and political issues of the region. Materials discussed include works by Vasconcelos, Paz, Fuentes, Monsiváis, Poniatowska, Bolaño, Anzaldúa, Coco Fusco and Ricardo Domínguez.

Note: Conducted in Spanish.

Spanish 90tv. Displacing Spain: Workshop on 20th and 21st Century Transatlantic Poetry - (New Course)

Catalog Number: 54744

Daniel Aguirre-Oteiza

Half course (spring term). M., W., 1-2:30.

We will read, listen to, and play with poems dealing with transatlantic perspectives on and from modern Spain. Close attention paid to the relation between poetry and identity, motherland, exile, and nomadism in Spanish and Latin American poets such as Bolaño, Cernuda, Darío, García Lorca, Neruda, Peri Rossi, and Vallejo, among others. Includes formal and thematic analysis of poems and hands-on work with texts in Spanish through translation.

Note: Conducted in Spanish.

***Spanish 91r. Supervised Reading and Research**

Catalog Number: 1586

Johanna Damgaard Liander and members of the Department and Tutorial Board

Half course (fall term; repeated spring term). Hours to be arranged.

Tutorial supervision of research on subjects not treated in regular courses.

Note: Letter-graded. May not be taken more than twice, and only once for concentration credit.



***Spanish 97. Tutorial—Sophomore Year**

Catalog Number: 2315

Luis Fernández-Cifuentes

Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

Theory in Praxis: Critical Controversies. Reading assignments will expose not only a variety of recent developments in literary criticism (as it has been practiced by prominent scholars, from Vygotsky to Barbara Johnson, on both prose and poetry) but also significant controversies that have accompanied and stimulated such development (Trilling versus Vendler on Wordsworth, Alonso versus Spitzer on Fray Luis, etc.) Requirements include short weekly papers and regular participation in class discussions.

Note: Conducted in Spanish. Required for all concentrators in Hispanic Studies in their sophomore year, but open to others. May also be taken as the Sophomore tutorial for concentrators in Latin American Studies and Romance Studies.

Prerequisite: 800 on the Harvard Placement test; a 40-, 50-, or 70-level course in Spanish; or permission of course head.

***Spanish 98. Tutorial—Junior Year**

Catalog Number: 5511

Johanna Damgaard Liander and members of the Department

Half course (fall term; repeated spring term). Hours to be arranged.

Weekly individual instruction for juniors pursuing an honors track, culminating in the writing of a 20-25 page research paper in Spanish.

Note: Letter-graded. Successful completion of one term of Spanish 98 (or equivalent) is required of all honors concentrators in their junior year.

***Spanish 99. Tutorial—Senior Year**

Catalog Number: 5867

Johanna Damgaard Liander and members of the Department

Full course. Hours to be arranged.

Weekly individual instruction for honors seniors writing a thesis. Completion of two terms of Spanish 99 is required of all seniors pursuing a thesis honors track.

Note: Successful completion of two terms of Spanish 99 is required of all honors concentrators. To enroll, see the Undergraduate Adviser in Spanish.

Cross-listed Courses

Aesthetic and Interpretive Understanding 13 (formerly Spanish 180). Cultural Agents

For Undergraduates and Graduates

Open to students with 800 on the Harvard Placement Test or SAT II, a score of 5 on the Advanced Placement Test in language or literature, previous coursework at Harvard of an appropriate level, or permission of course head. For other related courses, see also Latin American Studies and Romance Studies.

Spanish 110. Hispanic Literature: The Middle Ages

Catalog Number: 9402



Luis M. Girón Negrón

Half course (spring term). M., W., (F.), at 10. EXAM GROUP: 3

Introduction to Old Spanish literature from its origins through the 15th century. Close reading of representative works in historical context: *Cantar de Mío Cid*, *Milagros de Nuestra Señora*, *Libro de buen amor*, *Conde Lucanor*, *Laberinto de Fortuna*, *Coplas a la muerte de su padre*, *Cárcel de amor*, *Romancero* selections and *La Celestina*. Selective attention to critical approaches and overarching themes in the comparative study of medieval Iberian literatures. *Note:* Conducted in Spanish. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts C. Additional readings and alternate requirements for graduate students seeking to fulfil their General Exam in Medieval Spanish for Non-Specialists.

[Spanish 124. Cervantes: Don Quixote]

Catalog Number: 1378

Mary M. Gaylord

Half course (fall term). Hours to be arranged.

Cervantes' masterpiece as imaginative response to developments in European literature and aesthetic theory, the conflicted politics of race and religion, 16th-century historiography (serious and burlesque) and the discursive practices of imperial Spain. Close reading of *Don Quijote* in relation to its models, reception history and contemporary criticism and theory.

Note: Expected to be given in 2011–12. Conducted in Spanish. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

[Spanish 129. Playing the Spaniard: The Politics and Poetics of Identity in Early Modern Spanish Theatre]

Catalog Number: 90261

Mary M. Gaylord

Half course (spring term). Hours to be arranged.

What does it mean to be a Spaniard in 1600? How does one act the part? Is acting the same as being? Using history, myth, legend, and Spain's poetic traditions, playwrights mirror familiar roles, but reshape them and fashion new ones for a changing society in an expanding world. Signature *Comedia* themes - honor, decorum, virginity, masculinity — examined in plays by Cervantes, Lope, Alarcón, Tirso, Calderón, through modern theories of language, performance, identity, community.

Note: Expected to be given in 2011–12. Conducted in Spanish. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

Spanish 134. Nahuatl (Aztec) Language and Culture

Catalog Number: 7452

José Rabasa

Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

Offers an introduction to reading classical Nahuatl language through James Lockhart's *Nahuatl as Written*. Readings include paradigmatic examples of the Mesoamerican worldview drawn from poetry, history, and myth. Examines the interrelation between alphabetical writing, pictography, and orality.

Note: Conducted in English or Spanish.



Spanish 140. What is a Vanguard? - (New Course)

Catalog Number: 99323

José Rabasa

Half course (spring term). M., W., F., at 11. EXAM GROUP: 4

From Lenin's *What is to be done?* to the Zapatista insurrection in Chiapas. Readings will lead students to raise questions regarding the nature of modernity, progress, enlightenment, revolution, and aesthetic and political vanguards in the 20th century with a particular emphasis on Latin America. Cultural artifacts include film, poetry, political tracts, philosophical inquiries, photography, music, and visual arts.

Note: Conducted in Spanish.

[Spanish 152. Magical Realism and Its Discontent: Latin American Novels That Didn't Boom]

Catalog Number: 0215

Mariano Siskind

Half course (fall term). Hours to be arranged.

Before and after the "boom," Carpentier and García Márquez found a narrative form to express Latin America's aesthetic particularity in magic and marvel. Since the publication of *Cien años de soledad*, its remarkable impact generated all sorts of experimental responses attempting to work through Latin American social reality in very different ways. We read novels by Carpentier, García Márquez, Rulfo, Asturias, Uslar Pietri, Onetti, Saer, Cabrera Infante, Glantz, Bolaño, Fuguet, Bellatín, Buarque, and Aira.

Note: Expected to be given in 2011–12. Conducted in Spanish.

Spanish 159. Escrituras de la crisis: Violencia y narración en la Latinoamérica contemporánea

Catalog Number: 73699

Maria Ospina

Half course (fall term). Tu., 3-5 with an extra hour to be arranged. EXAM GROUP: 17, 18

How have Latin American literature and film of the past three decades articulated the many forms of violence in a region facing complex armed conflicts, wars deployed around the drug trade, and diverse forms of political unrest? We will investigate how contemporary texts reflect on linguistic, ethical and social dimensions of subjectivity in times of crisis and provide productive analytical frameworks to examine violence, history and memory in the region.

Note: Conducted in Spanish.

Spanish 161. Technology and Mass Media in Modern Latin American Literature

Catalog Number: 23788

Sergio Delgado

Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

A study of Latin American literary works conversant with mass media and technologies of communication. Our inquiry is framed by a set of general questions regarding the relationship between media, literature, cognition, and perception. How have works of literature engaged emerging technologies of communication? What are the repercussions of mechanical and electronic communication technologies on our way of making sense of the world? Readings by



Gironde, Cortázar, Puig, Bellatin, Sarlo, Benjamin, McLuhan, others.

Note: Conducted in Spanish.

Spanish 172. Barcelona and Modernity

Catalog Number: 4211

Bradley S. Epps

Half course (fall term). Tu., Th., 10-11:30. EXAM GROUP: 12, 13

Examines the construction, expansion, and transformation of Barcelona as cultural capital of Catalonia and as site of political and aesthetic experimentation from the mid-19th century to the present. Drawing on literature, criticism, visual arts, architecture, urban planning, film, and music, we explore national identity, nationalism, and language; bilingualism and multiculturalism; and the relations between art and economics, political conformity and resistance.

Note: Conducted in Spanish; papers in Spanish, English, or Catalan. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past. This course, when taken for a letter grade, meets the General Education requirement for Culture and Belief or the Core area requirement for Foreign Cultures.

Cross-listed Courses

[History of Art and Architecture 197g. Colonial Art]

Literature 157 (formerly Comparative Literature 111). From Type to Self in the Middle Ages

Studies of Women, Gender, and Sexuality 1226. Sex and Power in Modern Latin America and U.S. Latino Culture

Primarily for Graduates

[Spanish 201. Historia de la lengua española]

Catalog Number: 5610

Luis M. Girón Negrón

Half course (spring term). Hours to be arranged.

Introducción a la historia de la lengua española desde sus orígenes hasta el presente. Escarceos en lingüística histórica en el marco de la historia literaria y el estudio comparado de la lenguas románicas. Acercamiento interdisciplinario.

Note: Expected to be given in 2011–12. Conducted in Spanish.

Spanish 230. Colonial Studies - (New Course)

Catalog Number: 84216

José Rabasa

Half course (fall term). W., 3–5. EXAM GROUP: 8, 9

Juxtaposes colonial texts and postcolonial theory. We read Colón, Cortés, Sahagún, Las Casas, Nahua chroniclers, Garcilaso de la Vega, Sor Juana. Theory includes Said, Spivak, Nandy, Chakrabarty, Taussig, Guha, Quijano.

Note: Conducted in Spanish.



Spanish 243. Foundational Fiction and Film

Catalog Number: 3129

Doris Sommer

Half course (spring term). W., 3–5.

Through novels that helped to consolidate nation-states in Latin America, explores modernity as personal and public lessons in laissez-faire. Sequels in film, telenovelas, performances show tenacity of genre. Links between creativity and citizenship. Theorists include Anderson, Foucault, Arendt, Lukacs, Flaubert.

Note: Conducted in Spanish.

Spanish 261. The Return of World Literature: Placing Latin America, Debating Universalism

Catalog Number: 8328

Mariano Siskind

Half course (fall term). Tu., 12:30–3. EXAM GROUP: 14, 15, 16

With Moretti and Casanova, world literature has made a comeback. Is there room for 'the Latin American universal'? We read Goethe, Hegel, Marx, Sanín Cano, Reyes, Borges, Wilcock, Copi, Bolaño, Latin American films and music.

Note: Conducted in Spanish.

Spanish 277. Africa in the Modern Hispanic Imaginary

Catalog Number: 4373

Bradley S. Epps

Half course (spring term). Th., 2–5.

Examines the variegated relations between Spain and its "forgotten" colonial endeavors in Morocco, Western Sahara, and Equatorial Guinea as represented in novels, political essays, film. Attention to the trans-Atlantic slave trade and to the "third root" of Latin American culture will also be critical.

Note: Conducted in Spanish.

Spanish 281r. New Worlds of Early Modern Poetry in Spanish: Seminar

Catalog Number: 9785

Mary M. Gaylord

Half course (fall term). M., 1–3.

Global exploration, imitation of Latin and Italian models, and rediscovery of native medieval traditions reshape 16th- and 17th-century lyric, redefining poetic language itself. Peninsular and American, canonical and less known poets; poetics and commentaries.

Note: Conducted in Spanish and English.

Spanish 285cr. Spanish Literature: Seminar

Catalog Number: 1104

Luis Fernández-Cifuentes

Half course (fall term). Th., 2:30–5.

Current topic: Mostly Galdós. We read ten acknowledged masterpieces of Spanish and Catalan realism-naturalism (mostly by Galdós; also by Pardo Bazán, Clarín, Oller) in light of the



economic intricacies of 19th-century metropolitan life.

Note: Conducted in Spanish.

[Spanish 287r. Spanish Literature: Seminar]

Catalog Number: 4779

Bradley S. Epps

Half course (spring term). Hours to be arranged.

The Ethics of Representation: Modern Spanish Narrative. Examines relations between aesthetic autonomy and social responsibility, national identity and colonial power, in Baroja, Valle-Inclán, Català, García Lorca, Cela, Sánchez Ferlosio, Martín Santos, Rodoreda, Martín Gaité, Goytisolo, Benet, Millás, Ndongo.

Note: Expected to be given in 2011–12. Conducted entirely in Spanish.

Cross-Listed Courses

[*Comparative Literature 211. Mysticism and Literature: Seminar](#)

[Comparative Literature 252. The Literatures of Medieval Iberia: Approaches and Debates in their Comparative Study]

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

Joaquim-Francisco Coelho 7715, Bradley S. Epps 2880, Luis Fernández-Cifuentes 2091, Mary M. Gaylord 2632, Luis M. Girón Negrón 3060, José Rabasa 5844, Mariano Siskind 5530, Doris Sommer 2744, and Diana Sorensen 4214 (on leave 2010-11)

***Spanish 330. Direction of Doctoral Dissertations**

Catalog Number: 2143

Joaquim-Francisco Coelho 7715, Bradley S. Epps 2880, Luis Fernández-Cifuentes 2091, Mary M. Gaylord 2632, Luis M. Girón Negrón 3060, Francisco Márquez Villanueva 5064, José Rabasa 5844, Mariano Siskind 5530, Doris Sommer 2744, and Diana Sorensen 4214 (on leave 2010-11)

Russia, Eastern Europe, and Central Asia



***Faculty of the Standing Committee on the Degree of Master of Arts in Regional Studies—
Russia, Eastern Europe, and Central Asia***

Terry D. Martin, George F. Baker III Professor of Russian Studies (*Chair*)
Jonathan H. Bolton, Associate Professor of Slavic Languages and Literatures
Patricia R. Chaput, Professor of the Practice of Slavic Languages
Timothy J. Colton, Morris and Anna Feldberg Professor of Government and Russian Studies
Grzegorz Ekiert, Professor of Government
Kelly A. O'Neill-Uzgiris, Assistant Professor of History (*on leave 2010-11*)
Serhii Plokhii, Mykhailo S. Hrushevs'kyi Professor of Ukrainian History
Stephanie Sandler, Ernest E. Monrad Professor of Slavic Languages and Literatures (*on leave 2010-11*)
Justin Weir, Professor of Slavic Languages and Literatures

This is a two-year interdisciplinary program leading to the AM degree. The REECA program aims to provide students with a firm grounding in the history, culture, language, politics, and economics of Russia, and of other countries of the former Soviet Union and Eastern Europe. Graduates typically enter careers in government service, international trade or finance, journalism, or consulting; some pursue further training in business, law, or academia.

The course of studies takes into account the previous background, as well as the professional needs and interests, of the individual student. In addition to offerings by the Faculty of Arts and Sciences, students may cross-register for courses at other schools of Harvard University, MIT, and the Fletcher School of Law and Diplomacy. Arrangements may be made for students interested in fields not usually represented in course offerings. Faculty may offer specialized seminars specifically for program students. Students who have completed basic program requirements may seek permission for individual research under faculty direction.

Below is a partial list of departments offering courses on Russian, East European, and Central Asian Studies:

Anthropology, Comparative Literature, Economics, Government, History, History of Art and Architecture, Near Eastern Languages and Civilizations (for courses on Islamic civilization, as well as languages of Central Asia and the Caucasus), Slavic Languages and Literatures, Sociology, and Ukrainian Studies.

For more information on courses offered, please see individual departmental listings, or visit the REECA website at daviscenter.fas.harvard.edu/student—programs/masters.html

Primarily for Graduates

[*Regional Studies — Russia, Eastern Europe, and Central Asia 298 \(formerly *Regional Studies — Russia, Eastern Europe, and Central Asia 299a\). Master's Thesis Reading and Research](#)

Catalog Number: 3938 Enrollment: Limited to master's degree candidates in the REECA Program.



Terry D. Martin 2966 and members of the Faculty

Half course (fall term; repeated spring term). Hours to be arranged.

Supervised reading and research 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 298 and 299. Normally, these courses are taken during the second year of graduate studies.

***Regional Studies — Russia, Eastern Europe, and Central Asia 299 (formerly *Regional Studies — Russia, Eastern Europe, and Central Asia 299b). Master's Thesis Development and Writing**

Catalog Number: 1931 Enrollment: Limited to master's degree candidates in the REECA Program.

Terry D. Martin 2966 and members of the Faculty

Half course (fall term; repeated spring term). Hours to be arranged.

A continuation of RSRA 299a, culminating in the final master's thesis.

Note: Master's degree candidates are required to complete both *RSRA 298 and *299.

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

Diana L. Eck, Fredric Wertham Professor of Law and Psychiatry in Society (*Chair*)

Ali S. Asani, Professor of Indo-Muslim and Islamic Religion and Cultures (*Director of Undergraduate Studies*)

Amy Bard, Lecturer on Sanskrit and Indian Studies

Richard S. Delacy, Preceptor in Urdu and Hindi

Naseem A. Hines, Preceptor in Urdu-Hindi

Guy Kendall Leavitt, Preceptor in Sanskrit and Indian Studies

Parimal G. Patil, Professor of Religion and Indian Philosophy

Leonard W. J. van der Kuijp, Professor of Tibetan and Himalayan Studies (*on leave fall term*)

Michael Witzel, Wales Professor of Sanskrit (*Director of Graduate Studies*)

Other Faculty Offering Instruction in the Department of Sanskrit and Indian Studies

Janet Gyatso, Hershey Professor of Buddhist Studies (*Divinity School*)



Affiliates of the Department of Sanskrit and Indian Studies

Francis X. Clooney, Parkman Professor of Divinity and Professor of Comparative Theology
(Divinity School)

Anne E. Monius, Professor of South Asian Religions (Divinity School)

Graduate students in the Faculty of Arts and Sciences may enroll in certain foreign language courses for the grade of Sat/UNS. Students should consult with course heads to determine if a course is offered on that basis. For further information and updates, please visit our website: www.fas.harvard.edu/~sanskrit/courses.html.

Indian Studies

Primarily for Undergraduates

***Indian Studies 90r. South Asian Language Tutorials**

Catalog Number: 0317

Ali S. Asani and members of the Department

Half course (fall term; repeated spring term). Section I: M., W., F., at 11; Section II: M., W., F., at 12; Section III: M., W., F., at 1. .

Individualized study of a South Asian language; emphasis on written expression, reading comprehension and oral fluency. Languages currently offered include Bengali and Thai though others may be approved upon petition to the Director of Undergraduate Studies/Director of Graduate Studies.

Note: Not open to auditors.

***Indian Studies 91r. Supervised Reading and Research**

Catalog Number: 0247

Ali S. Asani and members of the Department

Half course (fall term; repeated spring term). Hours to be arranged.

Supervised reading leading to a long term paper in a topic or topics not covered by regular courses of instruction.

Note: A graded course. Offered at the discretion of the individual instructors.

***Indian Studies 98r. Tutorial — Junior Year**

Catalog Number: 4757

Ali S. Asani and members of the Department

Half course (fall term; repeated spring term). Hours to be arranged.

Note: Required of concentrators in the South Asian Studies option.

***Indian Studies 99. Tutorial — Senior Year**

Catalog Number: 6111

Ali S. Asani and members of the Department

Full course. Hours to be arranged.

Note: Required of concentrators in the South Asian Studies option.



Cross-Listed Courses

[Aesthetic and Interpretive Understanding 30 \(formerly Literature and Arts A-92\). Love In A Dead Language: Classical Indian Literature and Its Theorists](#)

[Culture and Belief 12. For the Love of God and His Prophet: Religion, Literature, and the Arts in Muslim Cultures]

[Culture and Belief 19 \(formerly Foreign Cultures 70\). Understanding Islam and Contemporary Muslim Societies](#)

[*Freshman Seminar 37y. Muslim Voices in Contemporary World Literatures Societies of the World 22. Asia in the Making of the Modern World](#)

For Undergraduates and Graduates

[*Indian Studies 123. Bollywood and Beyond: Commercial Cinema, Language and Culture in South Asia.]

Catalog Number: 6828 Enrollment: Limited to 20.

Richard S. Delacy

Half course (spring term). M., W., F., at 11.

This course examines concepts of personhood, community and culture in South Asia as expressed in contemporary film and literature. Works in Hindi-Urdu and in translation will be examined with emphasis on language as an index of cultural difference and of broad social shifts, notably the transformation of audiences from citizens to culture-consumers. Knowledge of Hindi-Urdu is not required. However, there will be a section for students with intermediate proficiency utilizing language materials.

Note: Expected to be given in 2011–12. Students who enroll in the language section of this course may count it towards a citation in Urdu-Hindi.

Cross-listed Courses

[Persian 160r. Readings in Indo-Persian Classical Literature - \(New Course\)](#)

[Religion 1063. South Asian Religious Aesthetics: Seminar](#)

[Religion 1655. Gandhi, Then and Now: Seminar - \(New Course\)](#)

[*Religion 1820 \(formerly *Religion 1585\). Muslim Societies in South Asia: Religion, Culture, and Identity](#)

Primarily for Graduates

[Indian Studies 205r. South Asia as Understood by its Regions]

Catalog Number: 2174

Michael Witzel

Half course (spring term). Hours to be arranged.

Topic: Kashmir

Note: Expected to be given in 2011–12.

[Indian Studies 218. Special Topics in Indian Philosophy]

Catalog Number: 9297



Parimal G. Patil

Half course (fall term). Hours to be arranged.

Note: Expected to be given in 2011–12.

Indian Studies 219. Introduction to World Mythology - (New Course)

Catalog Number: 0133

Michael Witzel

Half course (fall term). Th., 10-11:30, and an additional hour to be arranged.

The course discusses current and past approaches to comparative mythology and explores the new field of historical comparative mythology. Close interdisciplinary attention is given to genetics, linguistics and archaeology, and an outline of the development of mythologies from the late Stone Age until the rise of current world religions is presented.

Indian Studies 220. Brahmanas: Seminar - (New Course)

Catalog Number: 92712

Michael Witzel

Half course (fall term). Hours to be arranged.

The Brahmana-style texts are the earliest Sanskrit and some of the earliest Indo-European prose texts. They discuss the Srauta ritual, employing an 'identification' technique correlating ritual, Macrocosm and Microcosm. They frequently employ mythological and aitiological tales. This technique will be discussed while reading a selections from the earliest texts (Maitrayani Samhita, c. 1000 BCE) to the latest (Upanisads).

Indian Studies 221. Manuscripts, Palaeography and Text Editing - (New Course)

Catalog Number: 24706

Michael Witzel

Half course (spring term). Hours to be arranged.

Indian Studies 222. Introduction to Middle Indic (Prakrits and Pali): Seminar - (New Course)

Catalog Number: 41551

Michael Witzel

Half course (spring term). Hours to be arranged.

This course delineates the developments from Vedic/Classical Sanskrit to the languages in Middle Indic form including Pali and various Prakrits: Ardhamagadhi, Sauraseni, Magadhi, Gandhari, Maharastri, Jaina-Maharastri. Epic Sanskrit will briefly be looked into. Selections from texts and inscriptions in these languages will be read. Spring Semester 2011.

Cross-listed Courses

Religion 1005. World Religions in Boston: Seminar

[Religion 1706. South Asian Buddhism: Dharmas, Emptiness, and Idealism]

Religion 2030. Thinking About History in South Asia: Seminar

***United States in the World 32 (formerly Religion 1007). The World's Religions in Multicultural America: Case Studies in Religious Pluralism**



Graduate Courses of Reading and Research

***Indian Studies 302. Reading and Research**

Catalog Number: 1405

Ali S. Asani 7739, Diana L. Eck 4514, Parimal G. Patil 4478, and Michael Witzel 1602

Sanskrit

Primarily for Undergraduates

***Sanskrit 91r. Supervised Reading and Research**

Catalog Number: 5497

Ali S. Asani and members of the Department

Half course (fall term; repeated spring term). Hours to be arranged.

Supervised reading of texts in Sanskrit not covered by regular courses of instruction.

Note: A graded course. Offered at the discretion of the individual instructors.

***Sanskrit 98r. Tutorial — Junior Year**

Catalog Number: 3117

Ali S. Asani

Half course (fall term; repeated spring term). Hours to be arranged.

Note: Required of concentrators in the Sanskrit Language and Literature option.

***Sanskrit 99. Tutorial - Senior Year**

Catalog Number: 9745

Ali S. Asani and members of the Department

Full course. Hours to be arranged.

Note: Required of students writing a thesis in the Sanskrit Language and Literature track.

For Undergraduates and Graduates

Sanskrit 101a. Elementary Sanskrit

Catalog Number: 8140

Guy Kendall Leavitt

Half course (fall term). M., W., F., at 12. EXAM GROUP: 5

Introduction to Classical Sanskrit, the translocal language of intellectual life in South Asia for much of the last two millennia. This course provides the essential grammar and reading proficiency necessary to take up the language's many rich literary traditions: scripture (*Upaniṣad*), epic (*Rāmāyaṇa* and *Mahābbārata*), poetry, Hindu and Buddhist philosophy, etc. After completing the textbook, we will read a narrative (*Hitopadeśa*) drawn from one of the most popular literary works in the pre-modern world.

Sanskrit 101b. Elementary Sanskrit

Catalog Number: 6892

Guy Kendall Leavitt



Half course (spring term). M., W., F., at 12. EXAM GROUP: 5
Continuation of Sanskrit 101a.

Sanskrit 102a. Intermediate Sanskrit I

Catalog Number: 4843

Guy Kendall Leavitt

Half course (fall term). M., W., F., at 1. EXAM GROUP: 6

A reading course designed to give students the tools necessary for advanced study in Classical Sanskrit. Readings in epic (*itihāsa*) or narrative (*kathā*), poetry (*kāvya*) or systematic thought (*śāstra*) will introduce students to a variety of important genres and their distinctive conventions. A focus upon the Sanskrit tradition's categories of analysis - grammatical, commentarial and prosodic - will enable students to begin to make sense of original Sanskrit texts as generations of the tradition's own readers have.

Sanskrit 102b. Intermediate Sanskrit II

Catalog Number: 4916

Guy Kendall Leavitt

Half course (spring term). M., W., F., at 1. EXAM GROUP: 6

Continuation of Sanskrit 102a.

Primarily for Graduates

Sanskrit 200ar (formerly Sanskrit 212ar). Advanced Poetic Sanskrit

Catalog Number: 3658

Guy Kendall Leavitt

Half course (fall term). M., W., F., at 10.

Selected readings from inscriptions and documents.

Sanskrit 200br (formerly Sanskrit 212br). Advanced Literary Sanskrit

Catalog Number: 3526

Parimal G. Patil

Half course (spring term). M., W., F., at 10.

[Sanskrit 201ar. Advanced Philosophical Sanskrit]

Catalog Number: 9986

Guy Kendall Leavitt

Half course (fall term). M., W., F., at 10.

Topic to be announced.

Note: Expected to be given in 2011–12.

[Sanskrit 201br. Advanced Philosophical Sanskrit]

Catalog Number: 5965

Parimal G. Patil

Half course (spring term). M., W., F., at 10.

Topic to be announced.

Note: Expected to be given in 2011–12.



[Sanskrit 202r. Paninian Grammar]

Catalog Number: 6605

Michael Witzel

Half course (fall term). Th., 5–7 p.m.

This course offers a systematic introduction to the ingenious description of Sanskrit grammar, composed by Panini (c.350 BCE). This enduring tradition forms the basis of indigenous Sanskrit learning until today. Some subsequent texts of his school will also be read.

Note: Expected to be given in 2011–12.

[Sanskrit 204ar. Introduction to Vedic Sanskrit and Literature]

Catalog Number: 6123

Michael Witzel

Half course (spring term). Th., 3–5.

Introduction to Vedic grammar. Selection of texts from the Atharvaveda.

Note: Expected to be given in 2011–12.

Prerequisite: At least one year of Sanskrit.

[Sanskrit 205br (formerly Sanskrit 2xxbr). Readings from the Rgveda II]

Catalog Number: 0338

Michael Witzel

Half course (fall term). Th., 3–5.

Readings and discussions of the oldest Indian text.

Note: Expected to be given in 2011–12.

Prerequisite: Reading knowledge of Sanskrit.

[Sanskrit 206r. Readings in Sanskrit Narrative Literature: Seminar]

Catalog Number: 25468

Anne E. Monius (Divinity School)

Half course (fall term). Tu., Th., 8:30–10.

A reading course in genres of Sanskrit narrative literature, suitable for second-year students and above.

Note: Expected to be given in 2011–12. Cross-listed as HDS 3782

Sanskrit 214. Ritual Sutras

Catalog Number: 6626

Michael Witzel

Half course (spring term). Hours to be arranged.

Reading and discussion of Sutras and Paddhatis.

Graduate Courses of Reading and Research

***Sanskrit 301. Reading and Research**

Catalog Number: 2158

Francis X. Clooney (Divinity School) 1785, Diana L. Eck 4514, Anne E. Monius (Divinity School) 4489, Parimal G. Patil 4478, and Michael Witzel 1602



***Sanskrit 310. Direction of Doctoral Dissertations**

Catalog Number: 4371

Francis X. Clooney (Divinity School) 1785, Diana L. Eck 4514, Anne E. Monius (Divinity School) 4489, Parimal G. Patil 4478, and Michael Witzel 1602

Pali

For Undergraduates and Graduates

Pali 101a. Introductory Pali

Catalog Number: 4129

Michael Witzel and members of the Department

Half course (fall term). Hours to be arranged.

Considered sacred by the Theravada Buddhist tradition of Sri Lanka, India and Southeast Asia, as it was held to convey the actual "words of the Buddha", Pali came to be used as an authoritative, cosmopolitan language throughout the Theravada world. Pali texts display a rich variety of genres, including some of the earliest extant Indian poetry. The course is geared toward allowing the student to read Pali texts as quickly as possible.

Pali 101b. Introductory Pali

Catalog Number: 7320

Michael Witzel and members of the Department

Half course (spring term). Hours to be arranged.

Continuation of Pali 101a.

Pali 102a. Intermediate Pali

Catalog Number: 8376

Michael Witzel and members of the Department

Half course (fall term). Hours to be arranged.

Developing the skills gained in Introduction to Pali, the student reads texts of greater linguistic complexity in a wide variety of genres. The choice of text can be influenced by the students' particular interests. Where applicable, we will use the Pali commentarial tradition as a tool to understanding the texts, thus providing the student with access to this illuminating but challenging body of material.

***Pali 102b. Intermediate Pali**

Catalog Number: 7748

Michael Witzel and members of the Department

Half course (spring term). Hours to be arranged.

Continuation of Pali 102a.

Prerequisite: Pali 102a or equivalent.

[Pali 103r. Readings in Pali]

Catalog Number: 6985

Michael Witzel and members of the Department



Half course (fall term; repeated spring term). Hours to be arranged.

Note: Expected to be given in 2011–12.

Nepali

For Undergraduates and Graduates

[Nepali 101a. Introductory Nepali]

Catalog Number: 8974

Michael Witzel and members of the Department

Half course (fall term). Hours to be arranged.

Note: Expected to be given in 2011–12.

[Nepali 101b. Introductory Nepali]

Catalog Number: 3039

Michael Witzel and members of the Department

Half course (spring term). Hours to be arranged.

Note: Expected to be given in 2011–12.

Nepali 102a. Intermediate Nepali

Catalog Number: 8921

Michael Witzel and members of the Department

Half course (fall term). Tu., 4–6.

Nepali 102b. Intermediate Nepali

Catalog Number: 2720

Michael Witzel and members of the Department

Half course (spring term). F., 3–5.

This course is designed to provide students with a more sophisticated knowledge of Nepali grammar. Students will also have an opportunity to use Nepali language for communication purposes and will be able to analyze more complex sentence types than the ones taught in the introductory course.

[Nepali 103a. Advanced Nepali]

Catalog Number: 19267

Michael Witzel and members of the Department

Half course (fall term). F., 2–5.

A reading course in Modern Nepali Literature, suitable for students who have at least three years of Nepali learning. This course is designed to help students understand some of the complex literary materials composed in modern Nepali language. The students will have an opportunity to read a wide variety of selected texts, understand the linguistic systems operative in those writings, and come up with their own informed understanding of them.

Note: Expected to be given in 2011–12.

[Nepali 103b (formerly Nepali 104b). Advanced Nepali]

Catalog Number: 85896



Michael Witzel

Half course (spring term). F., 2–4.

A reading course in Modern Nepali Literature, suitable for students who have at least three years of Nepali learning. This course is designed to help students understand some of the complex literary materials composed in modern Nepali language. The students will have an opportunity to read a wide variety of selected texts, understand the linguistic systems operative in those writings, and come up with their own informed understanding of them.

Note: Expected to be given in 2011–12.

Nepali 104a. Readings in Modern Nepali Literature - (New Course)

Catalog Number: 46805

Michael Witzel and members of the Department

Half course (fall term). Hours to be arranged.

A reading course in Modern Nepali Literature, suitable for students who have at least three years of Nepali learning. This course is designed to help students understand some of the complex literary materials composed in modern Nepali language. The students will have an opportunity to read a wide variety of selected texts, understand the linguistic systems operative in those writings, and come up with their own informed understanding of them.

Nepali 104b. Readings in Modern Nepali Literature - (New Course)

Catalog Number: 61912

Michael Witzel and members of the Department

Half course (spring term). Hours to be arranged.

A reading course in Modern Nepali Literature, suitable for students who have at least three years of Nepali learning. This course is designed to help students understand some of the complex literary materials composed in modern Nepali language. The students will have an opportunity to read a wide variety of selected texts, understand the linguistic systems operative in those writings, and come up with their own informed understanding of them.

Urdu and Hindi

For Undergraduates and Graduates

***Hindi 101ab. Intensive Introductory Hindi**

Catalog Number: 55682 Enrollment: Limited to 12.

Naseem A. Hines

Full course (spring term). M. through F., 3–5. EXAM GROUP: 8, 9, 17, 18

A complete first year course in one term. Provides an introduction to Hindi and Devanagari script, encompassing all four skills: speaking, listening, reading and writing.

Note: Not Open to auditors. Cannot be taken Pass/Fail.

Urdu 101. Introductory Urdu-Hindi

Catalog Number: 4078

Richard S. Delacy and Amy Bard

Full course (indivisible). M. through Th., (F.), at 11; M. through Th., (F.), at 3. EXAM GROUP: Spring: 4, 13



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 video clips from Bollywood.

Note: Not open to auditors.

Urdu 102. Intermediate Urdu-Hindi

Catalog Number: 2941

Naseem A. Hines

Full course (indivisible). M., W., Th., at 11. EXAM GROUP: 4, 13

Continuation of Urdu 101. Emphasis on written expression and texts in both Perso-Arabic and Devanagari script systems. Students are introduced to Urdu/Hindi fables, short stories, and various other genres of literature, including poetry.

Note: Not open to auditors.

Prerequisite: Urdu 101 or equivalent.

Urdu 103a. Advanced Urdu-Hindi

Catalog Number: 0700

Richard S. Delacy

Half course (fall term). M., Tu., Th., at 9. EXAM GROUP: 11

Continuation of Urdu 102; covers topics in advanced grammar; designed to improve proficiency in speaking, listening, reading, and writing.

Prerequisite: Urdu 102 or equivalent.

Urdu 103b. Advanced Urdu-Hindi

Catalog Number: 4615

Richard S. Delacy

Half course (spring term). M., Tu., Th., at 9.

Continuation of Urdu 103a.

Urdu 104. The Classical Urdu Ghazal and Its Symbolism: Seminar

Catalog Number: 0927

Richard S. Delacy

Half course (fall term). Th., 3–5. EXAM GROUP: 17, 18

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.

Prerequisite: Urdu 102 or equivalent.

Urdu 105r. Topics in Urdu-Hindi Literature

Catalog Number: 5963

Ali S. Asani, Richard S. Delacy, and Naseem A. Hines

Half course (fall term; repeated spring term). Hours to be arranged.

Individual reading course. A course for students with native or near-native proficiency with readings in a variety of genres from Urdu and/or Hindi literature based on student interest.



Urdu 106r. Advanced Oral Proficiency in Urdu-Hindi

Catalog Number: 70789

Naseem A. Hines

Half course (fall term; repeated spring term). M., W., at 10. EXAM GROUP: 3

A course intended to raise levels of oral proficiency for advanced students and consolidate command over complex grammatical structures. By the end of the term, students will be expected to converse in a clearly participatory fashion, initiate, sustain and bring closure to a wide variety of communicative tasks using diverse strategies.

Prerequisite: Urdu 103 or Instructor's permission.

Graduate Courses of Reading and Research

***Urdu 300. Reading and Research**

Catalog Number: 2131

Ali S. Asani 7739

Tamil

For Undergraduates and Graduates

Tamil 101a. Elementary Tamil - (New Course)

Catalog Number: 27362

Richard A. Frasca

Half course (fall term). M., W., F., at 11. EXAM GROUP: 4

is an introductory course to the oldest of the Dravidian languages of South India. Tamil has a rich and well-developed literary tradition that ranges from ancient classical poetry and medieval devotional compositions and epics to the present-day where the modern novel, short story and drama coexist with vibrant traditions of folk poetry and folk drama. Students will be introduced to the Tamil script and to reading, writing, and speaking the Tamil language and to basic elements of grammar. Materials from popular culture and the folk tradition will supplement modern teaching materials.

Tamil 101b. Elementary Tamil - (New Course)

Catalog Number: 93991

Richard A. Frasca

Half course (spring term). M., W., F., at 11. EXAM GROUP: 4

Continuation of Tamil 101a.

Tamil 102a. Intermediate Tamil - (New Course)

Catalog Number: 42469

Richard A. Frasca

Half course (fall term). M., W., F., at 12. EXAM GROUP: 5

This is a course in Second Year Tamil that will focus on reading, writing, and speaking the Tamil language at an Intermediate Level. Students will read Tamil essays, short stories, and published literature as well as materials from the Tamil folk tradition. There will also be a significant emphasis on using spoken and written Tamil. Tamil cinema and audiovisual materials



presenting contemporary and traditional Tamil culture will be used as supplementary class material.

Tamil 102b. Intermediate Tamil - (New Course)

Catalog Number: 57576

Richard A. Frasca

Half course (spring term). M., W., F., at 12. EXAM GROUP: 5

Continuation of Tamil 102a.

Tamil 103a. Advanced Tamil - (New Course)

Catalog Number: 72683

Richard A. Frasca

Half course (fall term). M., W., F., at 1. EXAM GROUP: 6

This is a course in Third Year Tamil that will focus on reading, writing, and speaking the Tamil language at an Advanced Level. Students will begin the course with the reading of published short stories and essays and then move on to more advanced materials from journalistic, academic, and literary writing. Audiovisual materials from Tamil cinema, popular culture and the folk tradition will supplement modern teaching materials.

Tamil 103b. Advanced Tamil - (New Course)

Catalog Number: 21161

Richard A. Frasca

Half course (spring term). M., W., F., at 1. EXAM GROUP: 6

Continuation of Tamil 103a.

Tibetan and Himalayan Studies

Primarily for Undergraduates

[Tibetan 91r. Supervised Reading and Research]

Catalog Number: 2288

Leonard W. J. van der Kuijp and members of the Department

Half course (fall term; repeated spring term). Hours to be arranged.

Supervised reading of texts in Tibetan not covered by regular courses of instruction.

Note: Expected to be given in 2011–12.

For Undergraduates and Graduates

Tibetan 101a. Elementary Classical Tibetan

Catalog Number: 4132

Leonard W. J. van der Kuijp and members of the Department

Half course (fall term). Tu., Th., 5-6:30. EXAM GROUP: 18

Tibetan 101b. Elementary Classical Tibetan

Catalog Number: 5299

Leonard W. J. van der Kuijp and members of the Department



Half course (spring term). Tu., Th., 5–6:30.

Prerequisite: Tibetan 101a.

Tibetan 102a. Intermediate Classical Tibetan

Catalog Number: 9088

Leonard W. J. van der Kuijp and members of the Department

Half course (fall term). Hours to be arranged.

An intermediate classical Tibetan course emphasizing reading and translation of various Tibetan texts covering different genres, such as religious history, biography of Tibetan masters and folk literature writings. Please check the course website for the most updated information.

Prerequisite: Tibetan 101a and 101b or equivalent courses.

Tibetan 102b. Intermediate Classical Tibetan

Catalog Number: 8580

Leonard W. J. van der Kuijp and members of the Department

Half course (spring term). Hours to be arranged.

Continuation of 102a.

Prerequisite: 101a, 101b or equivalent courses.

Tibetan 104ar. Elementary Colloquial Tibetan

Catalog Number: 4158

Leonard W. J. van der Kuijp and members of the Department

Half course (fall term). Hours to be arranged.

Tibetan 104br. Elementary Colloquial Tibetan

Catalog Number: 7026

Leonard W. J. van der Kuijp and members of the Department

Half course (spring term). Hours to be arranged.

Continuation of Tibetan 104ar.

Tibetan 105ar. Intermediate Colloquial Tibetan

Catalog Number: 1314

Leonard W. J. van der Kuijp and members of the Department

Half course (fall term). Hours to be arranged.

Tibetan 105br. Intermediate Colloquial Tibetan

Catalog Number: 1151

Leonard W. J. van der Kuijp and members of the Department

Half course (spring term). Hours to be arranged.

Tibetan 106ar. Advanced Colloquial Tibetan

Catalog Number: 7094

Leonard W. J. van der Kuijp and members of the Department

Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16

Prerequisite: Tibetan 101 and 102, or equivalent.



Tibetan 106br. Advanced Colloquial Tibetan

Catalog Number: 5352

Leonard W. J. van der Kuijp and members of the Department

Half course (spring term). Hours to be arranged.

Prerequisite: Tibetan 101 and 102, or equivalent.

Cross-Listed Courses

Religion 1705 (Buddhism in Tibet). Tibetan Buddhism

[Tibetan History 100. A Cultural and Political History]

Primarily for Graduates

Tibetan 202r. Readings in Advanced Philosophical Tibetan

Catalog Number: 7601

Leonard W. J. van der Kuijp

Half course (spring term). F., 1–4.

Focuses on the analyses of conceptual knowledge in early Tibetan philosophical texts (1100–1250).

[Tibetan 203. Readings in Madhyamaka/Dbu ma]

Catalog Number: 2301

Leonard W. J. van der Kuijp

Half course (spring term). Hours to be arranged.

Note: Expected to be given in 2011–12.

Tibetan 219. Tibetan Religious Literature: Seminar

Catalog Number: 9500

Janet Gyatso (Divinity School)

Half course (fall term). Hours to be arranged.

This seminar will read an early Brug-pa treatise that attempted to conjoin mainstream tantric ideas about the enlightened buddha-body with Indian Ayurvedic medical conception of the everyday secular body.

Note: Offered jointly with the Divinity School as 3892.

Prerequisite: At least one previous year of classical Tibetan is required.

Tibetan 227. History of Tibetology: Seminar

Catalog Number: 7688

Leonard W. J. van der Kuijp

Half course (spring term). Th., 1–4.

[Tibetan 230. Readings in the Life of the Kashmirian Scholar Shakyashribhadra: Seminar]

Catalog Number: 92097

Leonard W. J. van der Kuijp

Half course (spring term). Th., 1–4.

Various Tibetan biographies of the life of this influential scholar will be examined and special



problem areas will be analyzed in full detail.

Note: Expected to be given in 2011–12.

Prerequisite: Reading knowledge of Tibetan.

[Tibetan 231. Introduction to Tibetan Historiography]

Catalog Number: 40575

Leonard W. J. van der Kuijp

Half course (fall term). F., 1–4.

Readings will be excerpted from different Tibetan chronicles

Note: Expected to be given in 2011–12.

Prerequisite: Tibetan 101 or equivalent.

Graduate Courses of Reading and Research

***Tibetan 300. Reading and Research**

Catalog Number: 0666

Leonard W. J. van der Kuijp 1556 (on leave fall term)

***Tibetan 302. Direction of AM Theses**

Catalog Number: 6927

Leonard W. J. van der Kuijp 1556 (on leave fall term)

Thai

For Undergraduates and Graduates

[Thai 102a. Intermediate Thai I]

Catalog Number: 8582

Michael Witzel and members of the Department

Half course (fall term; repeated spring term). Hours to be arranged.

A two-term continuation of the study of Thai at the intermediate level. Students build on acquired proficiency at the elementary level (or its equivalent) towards achieving more fluency in reading, speaking, writing, and listening comprehension of standard Thai, as well as in cultural-social skills. Introduces new vocabulary and grammar through communicative tasks and text readings, mainly using the situational-communicative methodology.

Note: Expected to be given in 2011–12.

Prerequisite: Successful completion of Elementary Thai (or equivalent) is required. Continuing students who did not take Introductory Thai, as well as new students, are encouraged to talk to the instructor prior to registration.

[Thai 102b. Intermediate Thai II]

Catalog Number: 3751

Michael Witzel

Half course (spring term). Hours to be arranged.

Note: Expected to be given in 2011–12.

Prerequisite: Thai 102a.



[Thai 103ar. Advanced Thai Readings I]

Catalog Number: 7590

Michael Witzel and members of the Department

Half course (fall term). W., 7–9 p.m.

Note: Expected to be given in 2011–12.

[Thai 103br. Advanced Thai Readings II]

Catalog Number: 7593

Michael Witzel

Half course (spring term). W., 7–9 p.m.

Note: Expected to be given in 2011–12.

Graduate Courses of Reading and Research

[*Thai 300. Reading and Research]

Catalog Number: 5368

Michael Witzel 1602 and members of the Department

Note: Expected to be given in 2011–12.

Slavic Languages and Literatures

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Department of Slavic Languages and Literatures

Julie A. Buckler, Professor of Slavic Languages and Literatures, Harvard College Professor
(*Chair*) (on leave 2010-11)

William Mills Todd III, Harry Tuchman Levin Professor of Literature and Professor of
Comparative Literature (*Acting Chair*)

Anna Baranczak, Preceptor in Slavic Languages and Literatures

Stanislaw Baranczak, Alfred Jurzykowski Professor of Polish Language and Literature

Jonathan H. Bolton, Associate Professor of Slavic Languages and Literatures (*Director of
Undergraduate Studies*)

Svetlana Boym, Curt Hugo Reisinger Professor of Slavic Languages and Literatures and
Professor of Comparative Literature

Patricia R. Chaput, Professor of the Practice of Slavic Languages

Natalia Chirkov, Preceptor in Slavic Languages and Literatures

Volodymyr Dibrova, Preceptor in Slavic Languages and Literatures

Michael S. Flier, Oleksandr Potebnja Professor of Ukrainian Philology



Vladimir Y. Gitin, Senior Preceptor in Slavic Languages and Literatures
 George G. Grabowicz, Dmytro Cyzevs'kyj Professor of Ukrainian Literature
 Nora Hampl, Preceptor in Slavic Languages and Literatures
 Halyna Hryn, Lecturer on Slavic Languages and Literatures
 John E. Malmstad, Samuel Hazzard Cross Professor of Slavic Languages and Literatures (*on leave spring term*)
 Joanna Nizynska, Associate Professor of Slavic Languages and Literatures (*on leave fall term*)
 Natalia Pokrovsky, Preceptor in Slavic Languages and Literatures
 Natalia Reed, Preceptor in Slavic Languages and Literatures
 Rebecca Zohar Reich, Lecturer on Slavic Languages and Literatures
 Stephanie Sandler, Ernest E. Monrad Professor of Slavic Languages and Literatures (*on leave 2010-11*)
 Laura Schlosberg, Lecturer on Slavic Languages and Literatures
 Justin Weir, Professor of Slavic Languages and Literatures (*Director of Graduate Studies*)

Language Courses

For Undergraduates and Graduates

Sectioning Note: Sectioning in multisectioned language courses is determined by attendance in class during the first week and through subsequent adjustments to maintain uniform section size. There is no separate sectioning meeting for language courses. Beginning on the first day of class, sections fill on a first-come basis, so that some sections may close on the first day. Students should attend the section of their choice and must continue to attend throughout the first week (or make special arrangements) to retain their places in sections. Students who miss classes may enter only those sections where space is available. Please note that under-enrolled sections may be canceled or rescheduled. No section times are guaranteed. As a general rule, no auditors are permitted in language courses. If fellowship terms or other circumstances prohibit registration, students must speak with the Director of the Language Program to request permission to audit. Language courses may not be taken Pass/Fail. Some courses permit graduate students to register on a Pass/Fail basis, but only by permission of the instructor. For further information on the Slavic Department, please go to www.slavic.fas.harvard.edu.

Slavic A. Beginning Russian

Catalog Number: 8014

Patricia R. Chaput, Natalia Chirkov, and others

Full course. Section I: M., through W., F., at 9; Section II: M., through W., F., at 1; and speaking practice Fall: Th., at 10, 11, 1 or 2 or F., at 9; Spring: Th., at 10, 11, 1 or 2. EXAM GROUP: 2, 11

Introduction to the essentials of the Russian language, designed for students without previous knowledge of Russian. Intensive speaking practice in essential grammar and vocabulary using naturally occurring conversational patterns. Introduction to the speech etiquette of social exchanges. Regular use of online video for comprehension practice, grammar, and vocabulary building. Reading and discussion of stories, biography, and poetry.

Note: See sectioning note above.



Slavic Aab. Beginning Russian (Intensive)

Catalog Number: 4441

Natalia Chirkov, Natalia Reed, Vladimir Y. Gitin (fall term), and others

Full course (fall term; repeated spring term). M., through F., at 9, and speaking practice M., W., F., at 10, 11, or 1. EXAM GROUP: 2, 11

Covers the same material as Slavic A but in one term.

Note: See sectioning note above.

Slavic Ac (formerly Slavic Acd). Grammar and Vocabulary Review for Heritage Speakers

Catalog Number: 0496

Patricia R. Chaput and Natalia Reed

Half course (spring term). M., W., F., at 1, and an additional hour of speaking practice to be arranged. EXAM GROUP: 6

For students with Russian family background. The course covers all of the cases of Russian verb conjugation, aspect, and other essential grammar topics. Emphasis on reading, writing, spelling, and word formation.

Note: Students with any Russian background who may wish to take Russian language courses in the Slavic Department must take the Placement Exam in August.

Prerequisite: Placement at this level.

Slavic B. Intermediate Russian

Catalog Number: 3262

Natalia Reed and others

Full course. M., W., F., at 9 or 10, and speaking practice Tu., Th., at 9, 10, or 11. EXAM GROUP: 2

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, Acd, 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 Bab. Intermediate Russian (Intensive)

Catalog Number: 1657

Vladimir Y. Gitin, Natalia Chirkov, and Natalia Reed

Full course (spring term). M. through F., at 9; and speaking practice M., W., F., at 1. EXAM GROUP: 2, 11

Covers essentially the same material as Slavic B, but in one term. Readings may vary.

Note: See sectioning note above. Class hours may be changed by agreement.

Prerequisite: Slavic A, Aab, Ac, or placement at the intermediate level.

Slavic Ca. Beginning Czech I

Catalog Number: 2173



Nora Hampl

Half course (fall term). M., W., F., at 10, and an additional hour of speaking practice to be arranged. EXAM GROUP: 3

An introductory course in modern Czech for students with no previous knowledge of the language. Emphasis on the development of oral proficiency as well as on reading and listening comprehension skills. Written work for practice and reinforcement. Reading of simple poetry and prose.

Slavic Cb. Beginning Czech II

Catalog Number: 7117

Nora Hampl

Half course (spring term). M., W., F., at 10, and an additional hour of speaking practice to be arranged. EXAM GROUP: 3

Continuation of modern Czech grammar and the further development of reading, writing, and oral skills. Reading and discussion of simple literary texts by Hasek, Capek, Havel, and Kundera.

Slavic Cc. Intermediate Czech I

Catalog Number: 6028

Nora Hampl

Half course (fall term). M., W., F., at 11, and speaking practice to be arranged. EXAM GROUP: 2

Intermediate language and culture study combines further development of vocabulary and oral expression with a comprehensive review of Czech grammar. Vocabulary topics are thematically organized and reinforced through visual media to include cultural perceptions of the self, family, society, and broader ethical and political attitudes prevalent in Czech culture. Selected short texts, movies, and multi-media will familiarize students with contemporary cultural issues and historical and political developments.

Prerequisite: Slavic Ca and Cb or placement at this level.

Slavic Cd. Intermediate Czech II

Catalog Number: 7411

Nora Hampl

Half course (spring term). M., W., F., at 11, and speaking practice to be arranged.

Second-semester intermediate study consolidates and expands grammar/lexicon, reading, writing and speaking skills in Czech. Grammar review is combined with intensive vocabulary building around literary and film masterpieces. Original literature to include Capek, Havel, Kundera and others, as well as newspaper articles and newscasts, with the objective of further interpreting cultural categories encoded in the language.

Prerequisite: Slavic Ca, Cb, Cc, or placement at this level.

***Slavic Cr. Supervised Readings in Intermediate/Advanced Czech**

Catalog Number: 0847

Nora Hampl

Half course (fall term; repeated spring term). Hours to be arranged.

Emphasis on reading with some practice in speaking and writing. Conducted as a tutorial.

Note: Department application required. No applications accepted after the third day of classes.



Interested students should submit on-line applications to staff assistant Stuart Robbins-Butcher, preferably by the second day of classes. Applications may be found on the department website under Resources.

Slavic Da. Beginning Polish I

Catalog Number: 8158

Anna Baranczak

Half course (fall term). M., W., F., at 9, and an additional hour of 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 12, and an additional hour of speaking practice to be arranged. EXAM GROUP: 5

Continuation of Slavic Da. Continued work on Polish grammar with increasing emphasis on reading. Continued oral work and writing for practice and reinforcement.

Slavic Dc. Intermediate Polish I

Catalog Number: 41571

Anna Baranczak

Half course (fall term). M., W., F., at 11, and speaking practice to be arranged. EXAM GROUP: 4

Emphasis on vocabulary building, writing, speaking and listening skills with comprehensive review of Polish grammar concentrating on difficult topics. Introduction to Polish literature through fiction and poetry, history and contemporary events.

Prerequisite: Slavic Da and Db or placement at this level.

Slavic Dd. Intermediate Polish II

Catalog Number: 56678

Anna Baranczak

Half course (spring term). M., W., F., at 11, and speaking practice to be arranged. EXAM GROUP: 4

Intensive development of vocabulary and oral skills. Readings from literary masterpieces from Polish literature from the era of Renaissance to our times including Jan Kochanowski, Wislawa Szymborska, Zbigniew Herbert, Czeslaw Milosz and others. Film clips and newspaper articles will introduce students to a variety of styles of contemporary Polish.

Prerequisite: Slavic Dc or placement at this level.

***Slavic Dr. Supervised Readings in Intermediate/Advanced Polish**

Catalog Number: 1096

Anna Baranczak

Half course (fall term; repeated spring term). Spring: F., 1–3. EXAM GROUP: Spring: 6, 7



Emphasis on reading with some practice in speaking and writing. Conducted as a tutorial.

Note: Department application required. No applications accepted after the third day of classes. Interested students should submit on-line applications to staff assistant Stuart Robbins-Butcher, preferably by the second day of classes. Applications may be found on the department website under Resources.

Slavic Ga. Beginning Ukrainian I

Catalog Number: 5536

Volodymyr Dibrova

Half course (fall term). M., W., F., at 9, and an additional hour of speaking practice to be arranged. EXAM GROUP: 2

Introduction to the fundamentals of Ukrainian designed for students with no previous knowledge of the language. Emphasis on oral practice of essential grammar structures in naturally occurring conversational patterns. Reading and discussion of simple prose and/or poetry. Writing for practice and reinforcement.

Slavic Gb. Beginning Ukrainian II

Catalog Number: 7126

Volodymyr Dibrova

Half course (spring term). M., W., F., at 9, and an additional hour of 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

Volodymyr Dibrova

Half course (fall term; repeated spring term). Hours to be arranged.

Emphasis on reading with some practice in speaking and writing. Conducted as a tutorial.

Note: Department application required. No applications accepted after the third day of classes. Interested students should submit on-line applications to staff assistant Stuart Robbins-Butcher, preferably by the second day of classes. Applications may be found on the department website under Resources.

Slavic 101. Advanced Intermediate Russian: Reading, Grammar Review, and Conversation

Catalog Number: 7234

Vladimir Y. Gitin and Natalia Reed

Half course (fall term). M., W., F., at 11 or 1, and speaking practice Tu., Th., at 1 or 2 or M., W., at 2. EXAM GROUP: 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 in prose, poetry, and film. Readings include a satirical tale by Shvartz, poetry of Akhmatova, and a film (Bykov's *Scarecrow*).



Note: See sectioning note above.

Prerequisite: Slavic B, Bab, Bb, or placement at this level.

Slavic 102r. Advanced Russian: Introduction to the Language of History and the Media

Catalog Number: 3280

Natalia Pokrovsky and Patricia R. Chaput

Half course (fall term). M., W., 1–3. EXAM GROUP: 6, 7

Introduction to the language of Russian newspapers, journals, and historical writing. Basic vocabulary for such areas as current events, including politics, history, economics, military issues, society, and the environment. Intended for students who desire a professional level of reading proficiency in the social sciences. Intensive work on morphology and supplementary work on oral comprehension.

Note: See sectioning note above. Conducted largely in English.

Prerequisite: Slavic 101 or permission of instructor.

Slavic 103. Advanced Russian: Reading, Composition, and Conversation

Catalog Number: 8638

Vladimir Y. Gitin and Natalia Reed

Half course (spring term). M., W., F., at 11; with speaking section Tu., Th., at 1 or 2. EXAM GROUP: 4

Continuing work on vocabulary and grammar centering on verbs and verb government. Readings include works by Chekhov and Dostoevsky, poetry, and film.

Note: See sectioning note above. Strongly recommended for students who plan to continue in Russian.

Prerequisite: Slavic 101 or placement at the 103 level.

***Slavic 111. Advanced Russian: Readings in Russian/Post-Soviet Studies**

Catalog Number: 1594

Natalia Pokrovsky

Half course (fall term). M., W., F., at 9. EXAM GROUP: 2

Reading and discussion of topics in the areas of history, economics, politics, and current events. Continued work on grammar and vocabulary with written exercises and compositions. TV viewing for comprehension development.

Note: See sectioning note above.

Prerequisite: Slavic 101 and 102, Slavic 103, or placement at the level of Slavic 111/113.

***Slavic 112. Advanced Russian: Russian Press and Television**

Catalog Number: 3290

Natalia Pokrovsky

Half course (spring term). M., W., F., at 1, with an additional hour of TV viewing F., at 2. EXAM GROUP: 6

For students who already have experience reading Russian periodicals. Readings in and analysis of current topics and their presentation in the Russian press. Examination of the history of selected periodicals. Viewing of Russian news programs and analysis of language and content. Class conducted largely in Russian.

Note: See sectioning note above.



Prerequisite: Slavic 102 and an additional course at the level of Slavic 101 or above, or Slavic 111 with permission of the instructor.

Slavic 113. Advanced Russian: Readings in Russian Literature I

Catalog Number: 0955

Natalia Pokrovsky

Half course (fall term). M., W., F., at 11. EXAM GROUP: 4

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, 115 or placement at this level or above.

Slavic 115 (formerly Slavic 104). Advanced Russian: Russian Cultural Self-Images and National "Mentality"

Catalog Number: 0795

Natalia Pokrovsky

Half course (spring term). M., W., F., at 10. EXAM GROUP: 3

Through readings and film, we explore Russian cultural attitudes and self-images as socio-cultural context. Topics include cultural perceptions of self as nation and as cultural "mentality," the collective vs. the individual, attitudes toward friendship, the family and women, law, crime, prestige and success, and ethnic difference. Concentrates on vocabulary and phrasing, and includes extensive writing practice.

Prerequisite: Slavic 103, 113, or permission of instructor.

[Slavic 117 (formerly Slavic 121). Advanced Russian: Reading Literary Texts]

Catalog Number: 4812

Vladimir Y. Gitin

Half course (fall term). M., F., at 1, W., at 3. EXAM GROUP: 6, 8

A course designed to further develop students' sensitivity to the reading of literary texts. Topics include the nature of lexical meaning, including meaning associations, syntactic meaning, aspects of morphology, word order and intonation, and colloquial language. Texts include both prose and poetry.

Note: Expected to be given in 2011–12. Primarily for graduate students in the Slavic Department.

Prerequisite: Slavic 103 or placement at this level or above.

***Slavic 120r. Supervised Readings in Advanced Russian**

Catalog Number: 7121

Patricia R. Chaput

Half course (fall term; repeated spring term). Spring: M., W., at 3. EXAM GROUP: Spring: 8

Intended for students who have already taken other department offerings. Reading, discussion, and writing on special topics not addressed in other courses. Conducted as a tutorial. Requires a course proposal to apply; acceptance is not automatic. Applications may be found on the department website under Resources.

Note: See sectioning note above. No applications accepted after the third day of classes.



Slavic Literature, Culture, and Philology

Primarily for Undergraduates

***Slavic 91r. Supervised Reading and Research**

Catalog Number: 2713

Jonathan H. Bolton and others

Half course (fall term; repeated spring term). Hours to be arranged.

Note: A graded course. Permission must be obtained from the Director of Undergraduate Studies and the instructor under whom the student wishes to study.

***Slavic 97. Tutorial — Sophomore Year**

Catalog Number: 7595

Jonathan H. Bolton

Half course (spring term). Tu., 2–4.

An interdisciplinary introduction to major authors and themes of Slavic history and literature, focusing on relationships between literature, power, history, and myth. Theories of literary interpretation (including Russian Formalism and semiotics) as well as different approaches to placing literature in its social and political contexts. Readings introduce students to major figures in the Slavic literary traditions, including Pushkin, Gogol, Dostoevsky, Tolstoy, Chekhov, Nabokov, Kundera, Hrabal, Herbert, Hemon, and others.

Note: For concentrators in Slavic Literatures and Cultures.

***Slavic 98. Tutorial—Junior Year**

Catalog Number: 1684

Justin Weir (fall term) and Svetlana Boym (spring term)

Full course. Th., 2–4. EXAM GROUP: 16, 17

Fall term introduces students to classic works of Russian literature, read in the original, and focuses on short stories. Spring term is devoted to a single topic and provides concentrators with a more intensive reading experience. This year's focus is on the prose of Chekhov and Nabokov. Specific authors and texts change from year to year in each term.

Note: Required of junior concentrators in Slavic Literatures and Cultures. Other students may enroll for one or both terms. Students who wish to concentrate on a different Slavic language may arrange a separate tutorial.

***Slavic 99a (formerly *Slavic 99r). Tutorial--Senior Year**

Catalog Number: 9278

Jonathan H. Bolton and others

Half course (fall term; repeated spring term). Hours to be arranged.

For senior concentrators in Slavic Literature and Culture. Students who wish to enroll must obtain the signature of the Director of Undergraduate Studies.

Note: Required for senior concentrators in Slavic Literature and Culture. Students who wish to enroll must obtain the signature of the Director of Undergraduate Studies. Honors students must also complete Slavic 99b.



***Slavic 99b (formerly *Slavic 99r). Tutorial — Senior Year**

Catalog Number: 5592

Jonathan H. Bolton and others

Half course (spring term). Hours to be arranged.

Students work with a faculty adviser on a senior thesis.

Note: For senior concentrators in Slavic Literature and Culture. Students who wish to enroll must obtain the signature of the Director of Undergraduate Studies.

Prerequisite: Slavic 99a.

Cross-listed Courses

[Aesthetic and Interpretive Understanding 11. Poetry Without Borders]

[Aesthetic and Interpretive Understanding 32 (formerly Literature and Arts C-51).

Revolution and Reaction: The Rise and Fall of the Russian Avant-Garde]

Aesthetic and Interpretive Understanding 41 (formerly Literature and Arts C-30). How and What Russia Learned to Read: The Rise of Russian Literary Culture

Aesthetic and Interpretive Understanding 45 (formerly Foreign Cultures 72). Art and Politics in Russia and Eastern Europe

[Culture and Belief 38 (formerly Literature and Arts C-28). Icon, Ritual, Text: Reading the Culture of Medieval Rus']

Culture and Belief 42 (formerly Foreign Cultures 92). Communism and the Politics of Culture: Czechoslovakia from the Prague Spring to the Velvet Revolution

Ethical Reasoning 28. Moral Inquiry in the Novels of Tolstoy and Dostoevsky - (New Course)

***Freshman Seminar 38l. Modes of Reading**

[*History 72f (formerly *History 1529). East European Identities: Russia and Ukraine]

***History 82f. The Origins of the Cold War: The Yalta Conference (1945)**

For Undergraduates and Graduates

Slavic 125. Modern Russian in Historical Perspective

Catalog Number: 5646

Michael S. Flier

Half course (spring term). Tu., Th., at 12; Tu., Th., at 1. EXAM GROUP: 15

Analysis of apparent exceptions and oddities in the phonology, morphology, and syntax of contemporary Russian through the prism of historical changes and developments.

Prerequisite: Slavic B, Bab, or placement at the third-year level.

[Slavic 126a. Structure of Modern Russian: Phonology and Morphology]

Catalog Number: 3083

Michael S. Flier

Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17

Introduction to Russian phonetics, phonemics, morphophonemics, and inflectional and derivational morphology. Course goal is to give a deeper understanding and appreciation of the regularities and complexities of Russian through a close study of its sounds and words.

Note: Expected to be given in 2011–12.



Prerequisite: Slavic B, Bab or placement at the third-year level. No knowledge of linguistics required.

Slavic 142. Engineering the Mind in Soviet Culture - (New Course)

Catalog Number: 80261

Rebecca Zohar Reich

Half course (spring term). W., 2–4. EXAM GROUP: 7, 8

Examines cultural, political, social and scientific perceptions of human psychology in the Soviet period. Topics include representations and manifestations of the New Soviet Man; the interaction of literature and psychology; and strategies of control, resistance and self-definition. Works by Mandelshtam, Vygotsky, Bulgakov, Pavlov, Platonov, Sinyavsky, Brodsky, Tarkovsky, Erofeev and others.

Note: All readings in English. Students who wish to read Russian texts in the original may arrange a special section with the instructor.

[Slavic 147. Soviet Film After Stalin]

Catalog Number: 42948

Justin Weir

Half course (spring term). Th., 2-4, with a film screening Tu., 4-6. EXAM GROUP: 16, 17

Considers the intersection of film and politics during the "thaw" years after Stalin's death, as well as themes of sexuality, gender, and violence in Russian culture of the 60's and 70's.

Examines several films by Kalatozov, Tarkovsky, Paradjanov, and Shepitko which are well known for their innovation in form and narrative.

Note: Expected to be given in 2011–12.

[Slavic 148. Strange Russian Writers]

Catalog Number: 7101

Stephanie Sandler

Half course (spring term). Tu., Th., at 11. EXAM GROUP: 13

Studies Russia's rebels, deviants, martyrs, loners, and losers as emblems of national identity. Stories, films and poems that project Russia's distinctive obsessions with history and religion. Includes Gogol, Tolstoy, Leskov, Kharms, Platonov, Nabokov, Sinyavsky, Petrushevskaya, Prigov; films by Eisenstein, Tarkovsky, Muratova, Lungin, Sokurov.

Note: Expected to be given in 2011–12. All readings in English. Separate additional section for those able to read texts in Russian. This course, when taken for a letter grade, meets the General Education requirement for either Aesthetic and Interpretive Understanding or Culture and Belief, but not both. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts C. This course fulfills the requirement that one of the eight General Education courses also engages substantially with Study of the Past.

[Slavic 149. Performance, Theater, Culture, Nation, Self: Russia and Its Others]

Catalog Number: 36747

Julie A. Buckler

Half course (spring term). M., 2–4. EXAM GROUP: 7, 8

Investigates performance and theatricality in imperial, Soviet, and post-Soviet contexts, in both art and life, through broad exploration of theoretical underpinnings (classical dramatic theory to



contemporary performance studies) and case studies from drama, opera, ballet, film, musicals, performance art, religious ritual and folk festival, monarchy and court, mass spectacles, Cold War competitions and diplomacy, subcultures, and contemporary assertions of new orders.

Note: Expected to be given in 2011–12. Reading knowledge of Russian desirable, but not required. An additional weekly session will be conducted for those who wish to consider texts in the original. Open to reasonably advanced undergraduates and graduates.

Slavic 151. Experiments in Reading: Chekhov and Nabokov

Catalog Number: 2505

Svetlana Boym

Half course (spring term). Th., 2–4. EXAM GROUP: 16, 17

Literary close reading of Chekhov and Nabokov with special attention to narrative experimentation as well as to the cultural and historical contexts. The main reading is Nabokov's *Drugie berega/Speak Memory*, a text that combines fiction and autobiography, literature and criticism, English and Russian.

Note: Readings in Russian (with English double-texts). Alternative to Slavic 98. Tutorial--Junior Year.

Prerequisite: Reading knowledge of Russian.

[Slavic 152. Pushkin]

Catalog Number: 8023

William Mills Todd III

Half course (spring term). Th., 2–4.

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.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts A.

Prerequisite: Good reading knowledge of Russian.

[Slavic 153. Short Russian Prose]

Catalog Number: 1743

John E. Malmstad

Half course (fall term). W., 3–5.

Readings in Russian short forms from Gogol to Nabokov. Primary emphasis on close reading.

Note: Expected to be given in 2011–12. Readings in Russian, discussion in English.

Prerequisite: Slavic 101 or its equivalent, and above.

[Slavic 154. Introduction to Russian Poetry]

Catalog Number: 6038

John E. Malmstad

Half course (fall term). W., 3–5. EXAM GROUP: 8, 9

An introduction to the major genres of Russian verse from the 18th through the 20th centuries. Primary emphasis on close reading of lyrics.

Note: Expected to be given in 2011–12. First Meeting Wednesday, September 9. Readings in Russian; discussion in English.



Slavic 155. Dostoevsky

Catalog Number: 6850 Enrollment: Limited to 20.

William Mills Todd III

Half course (fall term). M., 1-3. EXAM GROUP: 6, 7

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: No knowledge of Russian required.

[Slavic 166. Russian-Ukrainian Literary Relations in the 19th Century: Conference Course]

Catalog Number: 3513

George G. Grabowicz

Half course (fall term). Th., 12-2. EXAM GROUP: 14, 15

Examines Russian-Ukrainian literary relations from 1798 to 1905, with special focus on canon formation, ethnic, national and imperial identity, and the interrelation of literature, society, and ideology. Topics include Decembrist historicism, Romantic poetics and folklore, Slavophilism and populism, literature as subversion (kotljarevshchyna), the uses of translation, the reception of major writers (Gogol, Shevchenko, and others), and the imperial attempt to suppress "Ukrainophilism."

Note: Expected to be given in 2011-12.

Prerequisite: Reading knowledge of Russian or Ukrainian.

Slavic 169. 20th-Century Ukraine: Literature, Arts, and Society

Catalog Number: 4126

George G. Grabowicz and Halyna Hryn

Half course (spring term). M., 2-4. EXAM GROUP: 7, 8

Examines main currents in Ukrainian intellectual and cultural expression from the eve of the Russian Revolution, through the formation and dissolution of the USSR, to the "Orange Revolution" (2004). Topics include populism vs. modernism, nationalism vs. socialism, Literary Discussion of the 1920s, Stalinism, Glasnost, linguistic, and national identity. Focus on literature, film (Dovzhenko, Paradzhanov, Illienko), and theater (Kurbas); guest lectures on music and art.

Note: Readings in English. Films subtitled.

Slavic 173. Polish Romanticism

Catalog Number: 2240

George G. Grabowicz

Half course (fall term). Th., 2-4. EXAM GROUP: 16, 17

Overview of the major artistic and intellectual trends and close reading of key works by the major writers: Malczewski, Mickiewicz, Slowacki, Krasinski, and others. Focus also on the central role of Romanticism in Polish culture.

Prerequisite: Reading knowledge of Polish.

[Slavic 174. Romantic Word, Romantic Deed]

Catalog Number: 1188



Joanna Nizynska

Half course (spring term). Hours to be arranged.

Did Polish Romantic writers compensate for their country's political failures by fashioning new identities? How did the redemptive narratives spun by Mickiewicz and Slowacki shape the national and cultural identity of their readers? This course focuses on Polish Romantic literature and its complex aspirations to historical, political, and aesthetic critique and explores how the literature's national idiosyncrasies reflected (and clashed with) the larger philosophical and aesthetic principles of the Romantic era.

Note: Expected to be given in 2011–12. All readings in English. Students who wish to work in the Polish original may arrange a special section with the instructor.

[Slavic 176. Between Avant-Garde and Catastrophism: The Interwar Period in Polish Literature]

Catalog Number: 9878

Joanna Nizynska

Half course (spring term). W., 1–3. EXAM GROUP: 6, 7

This survey of the varied manifestations of modernism in independent Poland between the wars also investigates the artistic and ideological tension between the international and the local in the activities (including visual arts) of the First and Second Vanguard, Futurism, Skamander, and other movements. Readings include prose, poetry, drama by Gombrowicz, Schulz, Witkacy, Tuwim, Przybos, and others.

Note: Expected to be given in 2011–12. All readings in English.

[Slavic 177. Polish Literature After 1989: the Arrival of the Others]

Catalog Number: 66961

Joanna Nizynska

Half course (spring term). W., 1–3. EXAM GROUP: 6, 7

With the fall of Communism, Polish communal identity suffered a traumatic breakdown. This course investigates the emergence and treatment of otherness in Polish literature from 1989 to the present, discussing the forms of nostalgia and aggression that arise when a culture responds to new forms of otherness: ethnic (e.g., Jewish and German), gender and sexuality (feminism and queer), social and generational groups (e.g., the post-communist "McDonalds generation"). Readings from Chwin, Huelle, Maslowska, Stasiuk, Tryzna, Tulli.

Note: Expected to be given in 2012–13. All readings in English.

[Slavic 179. Bialoszewski: The Art of Private Life - \(New Course\)](#)

Catalog Number: 14628

Joanna Nizynska

Half course (spring term). M., 2–4.

How do traumatic experiences affect literary modes for representing the everyday? What critical approaches are most productive for approaching such works? Explore the unique aesthetic strategies of Miron Bialoszewski, whose attention to insignificant quotidian events makes him the most "private" writer in historically and politically oriented postwar Polish literature. Theoretical readings frame discussions on the everyday, trauma, and queer studies.

Note: Readings from Bialoszewski in Polish, discussions in English.

Prerequisite: Reading knowledge of Polish.



[Slavic 180. Russian Symbolist Poetry]

Catalog Number: 6333

John E. Malmstad

Half course (fall term). M., 3–5.

A survey of the history of the Symbolist movement in Russia with emphasis on close reading of poetry by its major figures.

Note: Expected to be given in 2011–12.

Prerequisite: Slavic 101 or an equivalent acceptable to instructor.

[Slavic 181. Russian Poetry of the 19th Century](#)

Catalog Number: 3307

John E. Malmstad

Half course (fall term). M., 3–5.

The major themes and modes of Russian poetry from pre-Romanticism to “pure art.” Selections from Zhukovsky, Batiushkov, Baratynsky, Yazykov, Lermontov, Tiutchev, Nekrasov, Fet, and others.

Prerequisite: Slavic 101 or an equivalent acceptable to instructor.

[Slavic 182. Problems in 20th-Century Poetry: Conference Course]

Catalog Number: 3489

John E. Malmstad

Half course (fall term). M., 3–5. EXAM GROUP: 8, 9

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 2011–12.

Prerequisite: Slavic 101 or an equivalent acceptable to the instructor.

[Slavic 186. Poetry after Brodsky: How Russian Is It?]

Catalog Number: 9918

Stephanie Sandler

Half course (fall term). Tu., 2–4.

Studies poetic practice since 1970. Includes Brodsky, Fanailova, Khersonskii, Khvostenko, Kibirov, Krivulin, Mnatsakanova, Petrova, Prigov, Sedakova, Shvarts, and Tsvetkov. Considers issues of translation, emigration, diaspora, audience, and connections to other art forms.

Note: Expected to be given in 2011–12. Open to qualified undergraduates with permission of instructor.

Prerequisite: Good reading knowledge of Russian.

[Slavic 192. Literature as Institutions: Conference Course]

Catalog Number: 6120 Enrollment: Limited to 15.

William Mills Todd III

Half course (spring term). M., 1–3.

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 2011–12. Open to advanced undergraduates and graduates. Students must pick up a syllabus in Barker 374 before the term begins, as there will be a brief assignment for the first class meeting.

[Slavic 197. Rebels With A Cause: Dissident Culture in Central Europe: Conference Course]

Catalog Number: 8810

Joanna Nizynska and Jonathan H. Bolton

Half course (fall term). Th., 2–4.

Who were the people who brought down the Berlin Wall? From dissident philosophy to dissident fashion, this course examines the ideology, genealogy, semiotics, and cultural background of opposition movements such as Solidarity in Poland, Charter 77 in Czechoslovakia, and others; we discuss "anti-politics," civil society, collaboration and the "gray zone," samizdat, women's perspectives, and other themes. Readings from Havel, Kolakowski, Kundera, Michnik, Milosz, Zagajewski; films by Menzel, Kieslowski and others.

Note: Expected to be given in 2012–13. All readings are in English.

Cross-listed Courses

[Armenian Studies 102. Introduction to Armenian Civilization - \(New Course\)](#)

[History 1114 (formerly History 1514). Early Modern Eastern Europe (1450-1795)]

[History 1270. Frontiers of Europe: Ukraine since 1500](#)

[History 1970. Cold War Summits: Conference Course - \(New Course\)](#)

[Linguistics 110. Introduction to Linguistics](#)

[Literature 160 (formerly Comparative Literature 160). Literary Forgeries and Mystifications]

[Literature 164. The 20th-Century Post-Realist Novel in Eastern Europe: Conference Course](#)

[Visual and Environmental Studies 184. Imagining the City: Literature, Film, and the Arts]

Primarily for Graduates

[Slavic 201. Introduction to East Slavic Languages](#)

Catalog Number: 5134

Michael S. Flier

Half course (spring term). W., 1–4. EXAM GROUP: 6, 7, 8

Introduction to the structure and history of Russian, Ukrainian, and Belarusian.

Prerequisite: Linguistics 250.

[Slavic 223. 19th-Century Ukrainian Poetry]

Catalog Number: 2097

George G. Grabowicz

Half course (spring term). W., 1–3. EXAM GROUP: 6, 7

A survey of the major poets: Kotljarevs'kyj, Hulak and the pre-Romantics, Shevchenko, Kulish, Rudans'kyj, Franko, and Lesja Ukrajinka.



Note: Expected to be given in 2011–12.

Prerequisite: Reading knowledge of Ukrainian.

[Slavic 224. Pavlo Tychyna and His Age]

Catalog Number: 6177

George G. Grabowicz

Half course (spring term). Tu., 2–4.

The poetry of Pavlo Tychyna, from the pre-*Sonjashni klarnety* period to posthumous rediscovery; his reception; his interaction with major contemporaries (Zerov, Bazhan and others); his impact on other major poets (Barka).

Note: Expected to be given in 2012–13.

Prerequisite: Reading knowledge of Ukrainian.

Slavic 231. Czech Literary Culture, 1900-1945 - (New Course)

Catalog Number: 46473

Jonathan H. Bolton

Half course (fall term). M., W., at 11. EXAM GROUP: 4

Close reading of major works of poetry and prose in the original Czech, with attention to the larger cultural currents of Central European modernism. Authors include Vancura, Olbracht, Halas, Blatny, Orten, Capek, Hasek, and others.

Prerequisite: Good reading knowledge of Czech.

Slavic 240. Soviet Cinema and the Bolshevik Revolution: Seminar - (New Course)

Catalog Number: 52215

Justin Weir

Half course (spring term). Tu., 2-4, with a film screening Tu., 4-6. EXAM GROUP: 16, 17

Considers cinematic anticipations and responses to the Bolshevik Revolution in the films of Kuleshov, Dovzhenko, Vertov, Eisenstein, Pudovkin and others. Pays special attention to montage theory, the role of documentary, Russian Formalist film theory, and repression of filmmakers during Stalinism.

Note: All course materials available in English translation. Advanced undergraduates may be admitted with permission of instructor.

Slavic 269. Structure of Russian for Instructors

Catalog Number: 7807

Patricia R. Chaput

Half course (fall term). W., 3–6. EXAM GROUP: 8, 9

Survey of the structures and rules of Russian from the viewpoint of the instructor. Linguistic description, translation into pedagogical form, formulation at different levels of study, questions of usage, changing norms. Includes practice in difficult constructions.

Note: To be taken the first semester of language teaching.

[Slavic 280r. Slavic Culture: Seminar]

Catalog Number: 1909

Michael S. Flier

Half course (spring term). Th., 10–12.



Topic for 2009-10: The Culture of Medieval Rus': Art, Architecture, Ritual, Literature.

Note: Expected to be given in 2011–12.

[Slavic 281. Literature, Film, and Visual Arts in Russia, 1920-1930]

Catalog Number: 1058

Svetlana Boym

Half course (spring term). W., 2–4.

Examines poetry, prose and visual arts together with cultural theory. Explores issues of innovation and cultural memory, art and politics, bilingualism and exile. Works by Mayakovsky, Malevich, Mandelshtam, Tsvetaeva, Babel, Shklovsky, Nabokov, Vertov, and Eisenstein.

Note: Expected to be given in 2011–12. Most texts available in English. Open to qualified undergraduates.

Prerequisite: Reading knowledge of Russian.

[Slavic 282 (formerly Slavic 141). Literature, Film, and Visual Art in Contemporary Russia]

Catalog Number: 1286

Svetlana Boym

Half course (fall term). W., 3-5. EXAM GROUP: 8, 9

Examines Russian culture from socialist realism to postcommunism. Topics: Socialist realist film, literature of the Gulag, writers' trials, non-confirmist art and rethinking of history, utopia and kitsch. Works by Shalamov, Nabokov, Sinyavsky-Tertz, and others.

Note: Expected to be given in 2011–12. Most materials also available in English. Open to qualified undergraduates.

Prerequisite: Reading knowledge of Russian.

[Slavic 285r. Modern Russian Literature: Seminar]

Catalog Number: 5182

John E. Malmstad

Half course (spring term). M., 3–5.

Topic for 2008-09: The culture of Russian avant-garde.

Note: Expected to be given in 2011–12.

Prerequisite: Slavic 101 or an equivalent acceptable to the instructor.

[Slavic 289. Elegy: The Art of Losing]

Catalog Number: 56141

Stephanie Sandler

Half course (spring term). Tu., 2–4. EXAM GROUP: 16, 17

Poems, films, visual artifacts, and music alongside theories of loss. Focuses on non-narrative forms, with examples from Pushkin, Baratynsky, Fet, Brodsky, Shvarts; Tarkovsky, Shemiakin, Sokurov; Silvestrov, Sebald.

Note: Expected to be given in 2012–13. Open to qualified undergraduates.

Prerequisite: Reading knowledge of Russian.

[Slavic 290. 19th-Century Ukrainian Prose: Seminar - \(New Course\)](#)

Catalog Number: 18964



George G. Grabowicz

Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17

A survey of the major writers: Kvitka, Kulish, Marko Vovchok, Svydnyc'kyj, Nechuj-Levyc'kyj, Panas Myrnyj, Franko and Kociubyns'kyj.

Prerequisite: Reading knowledge of Ukrainian.

[Slavic 291. Problems in the History of Early Ukrainian Literature]

Catalog Number: 0643

George G. Grabowicz

Half course (fall term). W., 2–4.

Examines Kievan and early Ukrainian literature. Topics include the system of genres of Kievan literature, the Renaissance and interaction with Polish literature, the confraternities, Vyshens'kyj, the Baroque, the Mohyla Academy, Skovoroda.

Note: Expected to be given in 2011–12.

Prerequisite: Reading knowledge of Ukrainian.

[Slavic 292. 20th-Century Ukrainian Prose]

Catalog Number: 5733

George G. Grabowicz

Half course (fall term). M., 2–4.

A survey of Ukrainian prose focusing on the avant-garde of the 1920s-1940s (Khvyl'ovyy, Johansen, Domontovych, Kosach) and the most recent period (Andijevs'ka, Andrukhovych, Izdryk and others).

Note: Expected to be given in 2011–12.

Prerequisite: Reading knowledge of Ukrainian.

***Slavic 299. Proseminar**

Catalog Number: 7972

William Mills Todd III

Half course (fall term). Th., 2–4. EXAM GROUP: 16, 17

Introduction to graduate study in Slavic. Selected topics in literary analysis, history, and theory.

Note: Open to qualified undergraduates with permission of the instructor.

Cross-listed Courses

Comparative Literature 242 (formerly Literature 242). Text, Image, Public Sphere

Comparative Literature 253. Literature, Art and Exile

[Comparative Literature 256. Archeology of Modernity and Visual Culture]

[Comparative Literature 273. Approaches to Modernity: The Metropolis]

Linguistics 250. Old Church Slavonic

[Linguistics 252. Comparative Slavic Linguistics]

Graduate Courses of Reading and Research

***Slavic 300. Direction of Doctoral Dissertations**

Catalog Number: 4477



Jonathan H. Bolton 4892, Svetlana Boym 1926, Julie A. Buckler 2960 (on leave 2010-11), Patricia R. Chaput 6222, Michael S. Flier 2878, George G. Grabowicz 4511, John E. Malmstad 1219 (on leave spring term), Joanna Nizynska 4891 (on leave fall term), Stephanie Sandler 1343 (on leave 2010-11), William Mills Todd III 1634, and Justin Weir 3407

***Slavic 301. Reading and Research**

Catalog Number: 3385

Jonathan H. Bolton 4892, Svetlana Boym 1926, Julie A. Buckler 2960 (on leave 2010-11), Patricia R. Chaput 6222, Michael S. Flier 2878, George G. Grabowicz 4511, John E. Malmstad 1219 (on leave spring term), Joanna Nizynska 4891 (on leave fall term), Stephanie Sandler 1343 (on leave 2010-11), William Mills Todd III 1634, and Justin Weir 3407

Half course (fall term; repeated spring term). Fall: M., W., at 12; Tu., 5–7 p.m.; Spring: Tu., 5–7 p.m.; M., at 12.

Social Policy

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Committee on Higher Degrees in Social Policy

Bruce Western, Professor of Sociology (*Chair*) (on leave 2010-11)

Kathryn Edin, Professor of Public Policy and Management at the John F. Kennedy School of Government (*Kennedy School*) (*Acting Chair*)

Jennifer L. Hochschild, Henry LaBarre Jayne Professor of Government and Professor of African and African American Studies, Harvard College Professor (on leave spring term)

Christopher Jencks, Malcolm Wiener Professor of Social Policy at the John F Kennedy School of Government (*Kennedy School*)

Jeffrey B. Liebman, Malcolm Wiener Professor of Public Policy at the John F. Kennedy School of Government (*Kennedy School*)

Theda Skocpol, Victor S. Thomas Professor of Government and Sociology

William Julius Wilson, Lewis P. and Linda L. Geyser University Professor

Other Faculty Offering Instruction in Social Policy

Mary C. Brinton, Reischauer Institute Professor of Sociology

David T. Ellwood, Scott Black Professor of Political Economy (*Kennedy School*)

Peter A. Hall, Krupp Foundation Professor of European Studies (on leave fall term)

Torben Iversen, Harold Hitchings Burbank Professor of Political Economy

Michèle Lamont, Robert I. Goldman Professor of European Studies and Professor of Sociology



and of African and African American Studies

Peter V. Marsden, Edith and Benjamin Geisinger Professor of Sociology, Harvard College
Professor, Dean of Social Science

Orlando Patterson, John Cowles Professor of Sociology

Paul E. Peterson, Henry Lee Shattuck Professor of Government

Robert D. Putnam, Peter and Isabel Malkin Professor of Public Policy (*on leave 2010-11*)

Robert J. Sampson, Henry Ford II Professor of the Social Sciences

Sidney Verba, Carl H. Pforzheimer University Professor, Emeritus

Mary C. Waters, M. E. Zukerman Professor of Sociology

Martin K. Whyte, Professor of Sociology

Christopher Winship, Diker-Tishman 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 US and abroad (especially Western Europe). It will be of particular interest for students who wish to combine solid training in the fundamental theoretical perspectives and methodological traditions of either government or sociology with advanced study of policy responses to these social problems. Students who would like the flexibility to pursue careers in departments of sociology or government, in schools of public policy, and in policy and other non-profit organizations may find these joint degrees especially suitable.

Students in the joint degree programs are eligible to apply for the Multidisciplinary Program on Inequality and Social Policy at the end of their first year of study. This training and fellowship program provides for summer institutes, research apprenticeships, and a variety of other opportunities. Please see the website www.ksg.harvard.edu/inequality 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, 1350 Massachusetts Avenue, Holyoke Center 350, Cambridge, MA 02138. Further information about the joint degree programs may be obtained from the program website (www.hks.harvard.edu/socialpol). Questions or requests for additional printed materials should be directed to Pamela Metz, Director, via e-mail (social—policy@harvard.edu) or correspondence addressed to her attention at the Kennedy School of Government, 79 John F. Kennedy Street, Cambridge, MA 02138.

Graduate Courses of Reading and Research



***Social Policy 300. Reading and Research**

Catalog Number: 6290

Members of the Committee

***Social Policy 301. Research and Social Policy Seminar**

Catalog Number: 3704

Kathryn Edin (Kennedy School) 5952

Half course (fall term; repeated spring term). Fall: Tu., 12–1:30.

Presentation of dissertation prospectus or chapters-in-progress. Required of advanced doctoral candidates in Social Policy.

***Social Policy 302. Doctoral Dissertation Research**

Catalog Number: 9707

Members of the Committee

***Social Policy 303. Introduction to Social Policy Research**

Catalog Number: 56297

Kathryn Edin (Kennedy School) 5952

Required of and limited to first-year PhD students in Social Policy. Explores current issues in Social Policy research based on the Multidisciplinary Program in Inequality & Social Policy Seminar Series.

Prerequisite: Limited to first-year PhD students in Social Policy.

Cross-listed Courses

[*Government 2340b. Social Policy II](#)

***Sociology 307. Proseminar on Inequality and Social Policy III**

Social Studies

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Committee on Degrees in Social Studies

Richard Tuck, Frank G. Thomson Professor of Government (*Chair*)

David R. Armitage, Lloyd C. Blankfein Professor of History (*on leave 2010-11*)

Eric Beerbohm, Assistant Professor of Government and of Social Studies

Anya Bernstein, Senior Lecturer on Social Studies (*Director of Studies for Social Studies*)

Steven C. Caton, Professor of Contemporary Arab Studies



Richard N. Cooper, Maurits C. Boas Professor of International Economics
Michael Frazer, Assistant Professor of Government and of Social Studies (*on leave spring term*)
Peter E. Gordon, Professor of History, Harvard College Professor
Peter A. Hall, Krupp Foundation Professor of European Studies (*on leave fall term*)
Michael J. Hiscox, Clarence Dillon Professor of International Affairs
Andrew Jewett, Assistant Professor of History and of Social Studies
James T. Kloppenberg, Charles Warren Professor of American History
Michael E. Rosen, Professor of Government
Emma Rothschild, Jeremy and Jane Knowles Professor of History
Michael J. Sandel, Anne T. and Robert M. Bass Professor of Government
Tommie Shelby, Professor of African and African American Studies and of Philosophy
Jocelyn Viterna, Assistant Professor of Sociology and of Social Studies
Christopher Winship, Diker-Tishman Professor of Sociology
Daniel F. Ziblatt, Paul Sack Associate Professor of Political Economy, Professor of Government

Other Faculty Offering Instruction in Social Studies

Chiwen Bao, Lecturer on Social Studies
Kevin N. Caffrey, Lecturer on Social Studies
Rodrigo Chacon, Lecturer on Social Studies
Bo-Mi T. Choi, Lecturer on Social Studies
Ayca Cubukcu, Lecturer on Social Studies
Jennifer Rene Darrah, Lecturer on Social Studies
Nara Dillon, Lecturer on East Asian Languages and Civilizations
Rebecca B. Galembe, Lecturer on Social Studies
Katie Jane Gallagher, Lecturer on Social Studies
Marshall L. Ganz, Lecturer on Social Studies
K. Healan Gaston, Lecturer on Social Studies
Alexander Hirschman Gourevitch, College Fellow in Social Studies
Stanley Hoffmann, Paul and Catherine Battenwieser University Professor
Stephen A. Marglin, Walter S. Barker Professor of Economics
Nicole D. Newendorp, Lecturer on Social Studies
Thomas Ponniah, Lecturer on Social Studies
Nikolas Prevelakis, Lecturer on Social Studies
Alexander T. Schulman, Lecturer on Social Studies
Sergio Silva-Castaneda, Lecturer on History and on Social Studies
Scott P. Staring, Lecturer on Social Studies
Ioanna Tourkochoriti, Lecturer on Social Studies
Carla Yumatle, Lecturer on Social Studies

Primarily for Undergraduates

[*Social Studies 10a. Introduction to Social Studies](#)

Catalog Number: 5278

Richard Tuck, Andrew Jewett and members of the Committee
Half course (fall term). Tu., 2-4, and a weekly section Th., 2-4.



This course offers an introduction to the classic texts of social theory of the eighteenth and nineteenth centuries. Our focus will be on the rise of democratic, capitalist societies and the concomitant development of modern moral, political, and economic ideas. Authors we will examine include Jean-Jacques Rousseau, Adam Smith, Alexis de Tocqueville, John Stuart Mill, and Karl Marx.

Note: This course is limited to sophomores and Social Studies concentrators. This course is a prerequisite for sophomores applying to Social Studies. Students planning to take this class must attend the first lecture to be admitted.

***Social Studies 10b. Introduction to Social Studies**

Catalog Number: 5097

Richard Tuck, Andrew Jewett and members of the Committee

Half course (spring term). Tu., 2-4, and a weekly section Th., 2-4.

This class continues the introduction to the classic texts of social theory begun in Social Studies 10a through the twentieth century. Authors include Friedrich Nietzsche, Max Weber, Emile Durkheim, Sigmund Freud, and Michel Foucault.

Note: This course is limited to Social Studies concentrators who have taken Social Studies 10a.

Social Studies 40. Philosophy and Methods of the Social Sciences

Catalog Number: 0476

Thomas Ponniah

Half course (spring term). Tu., Th., at 10.

This course integrates research methods with an investigation of the philosophical foundations of the social sciences. Topics covered include causal explanation, interpretation, rational choice and irrationality, relativism, collective action, and social choice.

***Social Studies 91r. Supervised Reading and Research**

Catalog Number: 9855

Anya Bernstein and members of the Committee

Half course (fall term; repeated spring term). Hours to be arranged.

Individual work in Social Studies on a topic not covered by regular courses of instruction.

Permission of the Director of Studies required.

***Social Studies 99. Tutorial — Senior Year**

Catalog Number: 7501

Anya Bernstein

Full course. Hours to be arranged.

Writing of senior honors essay.

Note: Required for concentrators.

Social Studies 98 — Junior Tutorials: Fall Term

Note: Admission is based on student preferences and a lottery system. Undergraduate non-concentrators may enroll in these tutorials if space is available.

***Social Studies 98ax. Development and Modernization: A Critical Perspective**



Catalog Number: 0752 Enrollment: Limited to 10.

Stephen A. Marglin

Half course (fall term). M., 4–6.

What assumptions about human beings underlie the conviction that development and modernization constitute progress, that the developed West points the way for the rest of the world? Does economic growth involve a package that necessarily changes the society, the polity, and the culture along with the economy? This tutorial provides a framework for thinking about these questions, both in the context of the West, and in the context of the Third World.

Note: This course will be lotteried.

***Social Studies 98eo. Culture and Society**

Catalog Number: 2114 Enrollment: Limited to 10.

Kiku Adatto

Half course (fall term). M., 2–4.

The course explores various approaches to the study of culture, drawing on studies in anthropology, history, philosophy, sociology, literature, and photography. Among the questions addressed are: How is historical memory constructed, and what are the competing forces that shape it? How do advertisements, photography, and film document cultural change? How is culture tied to power, domination, and resistance?

Note: This course will be lotteried. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts B.

***Social Studies 98fu. Practicing Democracy: Leadership, Community, Power**

Catalog Number: 7432 Enrollment: Limited to 10.

Marshall L. Ganz

Half course (fall term). Tu., 7–9 p.m.

Making democracy work requires an “organized” citizenry with power to assert its interests effectively. Yet US political participation declines, growing more unequal, as new democracies struggle to make citizen participation possible. Students learn to address public problems by organizing: developing leadership, building community, and mobilizing power. Our pedagogy links sociological, political science, and social psychology theory with democratic practice.

Note: Ten hours per week of field work required. This course will be lotteried.

***Social Studies 98iz (Critics of Enlightenment). Critics of Modernity: Marx, Nietzsche, and the Frankfurt School**

Catalog Number: 3515 Enrollment: Limited to 10.

Bo-Mi T. Choi

Half course (fall term). W., 2–4.

This tutorial traces the vicissitudes of Marx and Nietzsche in the works of the Frankfurt School. Its aim is to deepen students’ knowledge of the historical continuities and discontinuities of concepts and debates on psyche, labor, and art from the perspective of critical theory. Particular emphasis is placed on critiques of modernity, mass culture, and society by Horkheimer, Adorno, and Benjamin.

Note: This course will be lotteried.



***Social Studies 98ja. Children, Families, and the State**

Catalog Number: 6104 Enrollment: Limited to 10.

Anya Bernstein

Half course (fall term). W., 1:30–3:30.

This course explores the special status of children and families in American society and politics. We consider social protections for children and families and examine the role of the state in marriage, parenting, and the education of children and adolescents. Topics include child abuse and neglect, divorce and single parenthood, social class and parenting styles, and the relationship between families and schools.

Note: This course will be lotteried.

***Social Studies 98kb. Gender in Developing Nations**

Catalog Number: 2276 Enrollment: Limited to 10.

Jocelyn Viterna

Half course (fall term). Th., 2–4.

This course examines gender relations in Africa, Asia, the Middle East, and Latin America from a sociological perspective. We begin by discussing various theories of gender and development. We then apply these theories to a number of different topics including political participation, economic activities, development initiatives, violence, warfare, sexuality, and reproduction. Although we discuss men and masculinity wherever possible, most of the research in this area is on women, and women are therefore central to most course readings and discussions.

Note: This course will be lotteried.

***Social Studies 98kj. Religion and Politics in Modern America**

Catalog Number: 6394 Enrollment: Limited to 10.

K. Healan Gaston

Half course (fall term). W., 3–5.

This course addresses key themes and problems in the study of religion and politics in modern America. We will begin by wrestling with the thorny question of church-state relations before using historical episodes to explore two pressing theoretical issues: the construction of the category of "religion" itself and the debate over secularization. Finally, we will consider how the inclusion of previously marginalized groups (such as non-Judeo-Christian religious minorities, Mormons, conservative evangelicals, and secularists) challenges entrenched assumptions about the relationship between religion and politics.

Note: This course will be lotteried.

***Social Studies 98li. Ethnic and Religious Conflict in East and South Asia**

Catalog Number: 12939 Enrollment: Limited to 10.

Kevin N. Caffrey

Half course (fall term). Th., 4–6.

The course will examine cultural, social, and political manifestations of difference and its contexts in confrontation by examining cases of ethnic and religious conflict from East, Southeast, and South Asia. We will examine dominant understandings of difference in these regions, and then read appropriate ethnographic work from the region. This will bring our attention to recent issues of ethno-religious discord in Sri Lankan civil war; communal violence in India and Pakistan; ethnic wars in Burma (Myanmar); discord among the Muslim, Tibetan,



and Han Chinese; ethnoreligious violence in Indonesia; and Muslim "insurgency" in southern Thailand. The course will bring critical attention to bear on the issues of ethnicity, religion, and conflict in a trajectory from imperial/colonial to national settings across Asia.

Note: This course will be lotteried.

***Social Studies 98lj. The Latin American Quest for Development and Equality**

Catalog Number: 79568 Enrollment: Limited to 10.

Sergio Silva-Castaneda

Half course (fall term). Th., 2–4.

Latin American economic history has been a difficult and frustrating quest for sustained and equalitarian economic growth. This quest has included periods of outstanding economic performance, but these are usually followed by economic catastrophes. Brief moments when inequality seemed to recede were likewise followed by social disasters. The intention of this course is to expose students to the main topics and debates in Latin American economic history about this region's failure to overcome economic backwardness, poverty, and inequality.

Note: This course will be lotteried.

***Social Studies 98ma. Freedom - (New Course)**

Catalog Number: 39022 Enrollment: Limited to 10.

Alexander Hirschman Gourevitch

Half course (fall term). M., 3–5.

This course deals with historical and contemporary treatments of freedom. We ask questions like: is freedom an inward or outward experience? How is freedom related to slavery? What distinguishes modern from ancient liberty? We also look at positive compared with negative liberty; equality and the "fair value" of liberties; free labor versus the right to be lazy. Authors include Aristotle, Epictetus, Hobbes, Rousseau, Constant, Marx, Douglass, Berlin, Skinner, Cohen, Nozick, Rawls, Sen, Taylor, Russell.

Note: This course will be lotteried.

***Social Studies 98me. Cosmopolitics of Human Rights - (New Course)**

Catalog Number: 73064 Enrollment: Limited to 10.

Ayca Cubukcu

Half course (fall term). M., 2:30–4:30.

What is cosmopolitanism? Are there, or should there be, universal human values? This tutorial examines the problem of universalism in the politics of cosmopolitanism and human rights. It also aims to understand how cosmopolitanism manages facts of political difference and resistance. Particularly concerned with cosmopolitan proposals for "democratic regime change" and "humanitarian intervention" to enforce human rights, the ultimate question this seminar poses is: what is the foundation of human rights politics?

Note: This course will be lotteried.

***Social Studies 98mg. Global Distributive Justice - (New Course)**

Catalog Number: 67986 Enrollment: Limited to 10.

Katie Jane Gallagher

Half course (fall term). M., 1–3.

This course examines how concerns about socio-economic justice apply beyond the limits of the



domestic state. Do we have reason to care about equality at the international level? If so, should we care about the relative standing of individuals, or of nation-states? Who, if anyone, is responsible for addressing global inequalities? Topics covered include the moral relevance of borders, natural resource distribution, immigration policy, climate change, the international status of women, and global institutional design.

Note: This course will be lotteried.

***Social Studies 98mi. Migration in Theory and Practice - (New Course)**

Catalog Number: 34608 Enrollment: Limited to 10.

Nicole D. Newendorp

Half course (fall term). Th., 1–3.

In this course, we will examine how and why people migrate from one location to another, focusing both on the theoretical paradigms scholars use to explain migration processes as well as on the individual experiences of migrants. Topics include transnationalism, diaspora, identity formation, integration and assimilation, citizenship claims, and the feminization of migration. Ethnographic readings focus primarily on migration to the US, but also include cases from other world areas, most notably Asia.

Note: This course will be lotteried.

Social Studies 98 — Junior Tutorials: Spring Term

***Social Studies 98cl. Law and American Society**

Catalog Number: 7389 Enrollment: Limited to 10.

Terry K. Aladjem

Half course (spring term). Th., 2–4.

Examines law as a defining force in American culture and society in four dimensions—as it establishes individual rights, liberties, and limits of toleration; as it attempts to resolve differences among competing constituencies; as it sets out terms of punishment and social control, and as a source of informing images and ideological consistency.

Note: A prison trip is planned, subject to approval. This course will be lotteried.

***Social Studies 98gf. Modernity and Social Change in East Asia**

Catalog Number: 5553 Enrollment: Limited to 10.

Nicole D. Newendorp

Half course (spring term). Th., 1–3.

Examines the interconnections between modernity and social change in contemporary China, Japan, and Korea. Explores how modernity is conceptualized by both state and society actors and how these visions fuel change at local and national levels. Particular attention will be paid to issues of social protest, migration, consumption, gender, ethnicity, and family life in both rural and urban locations. Readings focus on ethnographic case studies and the effects of modernity on everyday life experience.

Note: This course will be lotteried.

***Social Studies 98jl. Global Social Movements**

Catalog Number: 8965 Enrollment: Limited to 10.

Jocelyn Viterna



Half course (spring term). Th., 2–4.

Social movements are often considered a driving force behind political, social, and cultural change. This course explores the major theoretical and empirical approaches used in the social sciences to understand the emergence, endurance, and outcomes of social movement activism. Questions of political and social change, state formation and transformation, violence, peace, gender, race/ethnicity, class, identity, and research methods will be examined through an analysis of case studies from the US, Europe, Asia, Africa, and Latin America, as well as transnational movements.

Note: This course will be lotteried.

***Social Studies 98kg. The Political Economy of Health in the Developing World**

Catalog Number: 0037 Enrollment: Limited to 10.

Nara Dillon

Half course (spring term). Th., 3–5.

This course places the politics of health care in the context of economic development. Although health care and social programs are often considered secondary to economic growth, they have come to play an increasingly central role in development policy. This course explores the interaction between development and health through a survey of different theoretical approaches to development, combined with empirical research on public health, AIDS, family planning, and development programs.

Note: This course will be lotteried.

***Social Studies 98la. Race, Space and Identity in the American City**

Catalog Number: 34706 Enrollment: Limited to 10.

Jennifer Rene Darrah

Half course (spring term). W., 1–3.

Introduces core concepts and theories from urban sociology and urban politics. Emphasizes race, immigration, and ethnic identity in space. Topics include racial and economic segregation, immigrant enclaves, spatial assimilation, urban inequality, and racial identity in the city. Also engages with questions about the autonomy of local communities to challenge poverty and disadvantage.

Note: This course will be lotteried.

***Social Studies 98lf. Globalization and the Nation State**

Catalog Number: 68748 Enrollment: Limited to 10.

Nikolas Prevelakis

Half course (spring term). W., 4–6.

Despite globalization, the nation is still a major actor in today's world. This course tries to understand why this is so by examining the role that nationalism plays in peoples' identities and the effects of globalization on nations and nationalism. Examples from the United States, Western Europe, Latin America, India, and the Middle East.

Note: This course will be lotteried.

***Social Studies 98lh. Education and American Society**

Catalog Number: 83855 Enrollment: Limited to 10.

Chiwen Bao



Half course (spring term). W., 2–4.

Explores how education has been and continues to be a central institution of American society, reflecting social ideals and ideologies while also directly shaping the contours and structures of society in both productive and detrimental ways. Examines different philosophical foundations of formal learning and how those theories have become manifested across time in various educational practices. Investigates how schools currently operate, specific issues the American educational system faces, and the implications of various schooling practices for structuring American society.

Note: This course will be lotteried.

***Social Studies 98lm. Humanitarian Intervention**

Catalog Number: 25673 Enrollment: Limited to 10.

Scott P. Staring

Half course (spring term). M., 4–6.

This course will examine the changing nature of humanitarian intervention since the end of the Cold War, with particular emphasis on the current NATO-led mission in Afghanistan. The readings will offer a broad survey of the different methods and means of modern intervention, as well as an introduction to some of the more theoretical debates over the different ends and justifications provided for intervention today.

Note: This course will be lotteried.

***Social Studies 98mb. Violence and Culture - (New Course)**

Catalog Number: 64158 Enrollment: Limited to 10.

Rebecca B. Galemba

Half course (spring term). W., 1–3.

This tutorial explores the cultural meanings and experiences of violence. We examine how everyday people experience violence and the strategies they take to understand, challenge, or even perpetuate it. While contextualizing violence in socioeconomic realities, we explore the discourses and practices by which violence becomes considered legitimate, abhorrent, worthy of human rights attention, or even state-sanctioned. We consider how scholars represent violence that is simultaneously collective, political, and social while also subjective, emotional, and personal.

Note: This course will be lotteried.

***Social Studies 98mc. American Foreign Policy: Strengths and Weaknesses - (New Course)**

Catalog Number: 12636 Enrollment: Limited to 10.

Stanley Hoffmann

Half course (spring term). W., 2–4.

An examination of America as a world actor after 1940: how has it defined its increasingly important role in international affairs; what have been the most frequent instruments of its power; what have been its major successes and failures; how have domestic political and economic forces affected America's policies abroad?

Note: This course will be lotteried.

***Social Studies 98md. Struggles for Democracy - (New Course)**

Catalog Number: 79265 Enrollment: Limited to 10.



Christopher Stephen Meckstroth

Half course (spring term). W., 2–4.

What have we learned from two centuries of democratic revolutions about how they succeed and why they fail? And how much can this history tell us about contemporary prospects for democratization elsewhere, for instance in Russia, China, or the Middle East? This course critically engages the comparative literature on democratization while introducing students to the variety of empirical methods researchers have brought to bear on questions like these.

Note: This course will be lotteried.

***Social Studies 98mf. Liberalism and Its Critics - (New Course)**

Catalog Number: 36649 Enrollment: Limited to 10.

Carla Yumatle

Half course (spring term). W., 4:30–6:30.

This course provides a critical examination of key debates around liberalism. The first part analyzes both the classical accounts of liberalism and the relation between liberalism and democracy. The second part focuses on variants of liberalism and the relative importance that equality and freedom, culture, value pluralism, toleration, and state neutrality play in the foundations of a liberal order. The third part examines various criticisms against liberalism including utilitarianism, communitarianism, feminism, Marxism, and radical views.

Note: This course will be lotteried.

***Social Studies 98mh. Revolutions in Political Thought - (New Course)**

Catalog Number: 16464 Enrollment: Limited to 10.

Alexander T. Schulman

Half course (spring term). Th., 4–6.

Ca. 1500 few guessed that the small peninsula at the western end of the Asian land mass would soon achieve world economic and political dominance. We trace the West's tradition of political upheaval by reading theory surrounding the major revolutions of the modern age. Splitting a 1,000-year "Universal church" into fragments, developing warring nation-states, executing Kings, and founding colonial republics — Why? How? What has this restless vision of progress made of politics and the world?

Note: This course will be lotteried.

Sociology

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Department of Sociology



Mary C. Brinton, Reischauer Institute Professor of Sociology (*Chair*)
 Laura L. Adams, Preceptor in Expository Writing, Lecturer on Sociology
 David L. Ager, Lecturer on Sociology (*Director of Undergraduate Studies*)
 Jason Beckfield, Assistant Professor of Sociology, Professor of Sociology
 Lawrence D. Bobo, W. E. B. Du Bois Professor of the Social Sciences
 Nicholas A. Christakis, Professor of Sociology (*Medical School*)
 Frank Dobbin, Professor of Sociology (*on leave 2010-11*)
 Filiz Garip, Assistant Professor of Sociology
 Luisa Laura Heredia, Lecturer on Sociology
 Alison Denton Jones, College Fellow in the Department of Sociology
 Tamara Kay, Associate Professor of Sociology
 Michèle Lamont, Robert I. Goldman Professor of European Studies and Professor of Sociology
 and of African and African American Studies
 Peter V. Marsden, Edith and Benjamin Geisinger Professor of Sociology, Harvard College
 Professor, Dean of Social Science
 Rachel Meyer, College Fellow in the Department of Sociology
 Patrick J. Moynihan, Preceptor in Government, Lecturer on Sociology
 Timothy Nelson, Lecturer on Sociology (*Kennedy School*)
 Orlando Patterson, John Cowles Professor of Sociology
 Robert J. Sampson, Henry Ford II Professor of the Social Sciences
 Adam B. Seligman, Visiting Professor of Sociology
 Alicia D. Simmons, Lecturer on Sociology
 Theda Skocpol, Victor S. Thomas Professor of Government and Sociology
 Kaia Stern, Lecturer on Sociology, Lecturer on African and African American Studies
 Jocelyn Viterna, Assistant Professor of Sociology and of Social Studies
 Mary C. Waters, M. E. Zukerman Professor of Sociology
 Bruce Western, Professor of Sociology (*on leave 2010-11*)
 Martin K. Whyte, Professor of Sociology
 William Julius Wilson, Lewis P. and Linda L. Geyser University Professor
 Christopher Winship, Diker-Tishman Professor of Sociology (*Director of Graduate Studies*)

Other Faculty Offering Instruction in the Department of Sociology

Kathryn Edin, Professor of Public Policy and Management at the John F. Kennedy School of
 Government (*Kennedy School*)
 Mary-Jo Del Vecchio Good, Professor of Social Medicine (*Medical School*)
 Christopher Jencks, Malcolm Wiener Professor of Social Policy at the John F Kennedy School of
 Government (*Kennedy School*)
 Stanley Lieberman, Abbott Lawrence Lowell Professor of Sociology, Emeritus
 Jeffrey B. Liebman, Malcolm Wiener Professor of Public Policy at the John F. Kennedy School
 of Government (*Kennedy School*)
 Christopher Marquis, Associate Professor (*Business School*)
 Patrick J. Moynihan, Preceptor in Government, Lecturer on Sociology

Introductory Courses



[Sociology 10. Introduction to Sociology]

Catalog Number: 4814

Instructor to be determined

Half course (fall term). Hours to be arranged.

Introduces students to the main objects and goals of Sociology—both for sociology concentrators and curious non-concentrators. Explores the theories of classical authors in the history of sociology (such as Marx, Durkheim, Weber, and beyond). Examines major topics in sociological research (including but not limited to social problems, deviance, inequality, social change, culture, education, social interaction).

Note: Expected to be given in 2011–12. May be counted for introductory concentration requirement, if letter-graded.

Sociology 24. Introduction to Social Inequality

Catalog Number: 9417 Enrollment: Limited to 35.

Jason Beckfield

Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16

Examines individual and structural explanations for the generation and maintenance of inequality in the US with comparisons to other societies. The consequences of inequality for individuals and groups are studied.

Note: May be counted for introductory concentration requirement, if letter-graded. This course, when taken for a letter grade, meets the Core areq requirement for Social Analysis.

[Sociology 25. Introduction to the Sociology of Organizations]

Catalog Number: 3609

Frank Dobbin

Half course (spring term). M., W., at 11.

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: Expected to be given in 2011–12. May be counted for introductory concentration requirement, if letter-graded. This course, when taken for a letter grade, meets the Core area requirement for Social Analysis.

Sociology 43. Social Interaction

Catalog Number: 9625

Timothy Nelson (Kennedy School)

Half course (spring term). Tu., Th., 11:30-1. EXAM GROUP: 13, 14

Examines social interactions in public and semi-public spaces as well as small-group dynamics. We will analyze everyday activities like conversations and parties as well as more extreme forms like demonstrations and riots. Emphasizes outside observation of various kinds and components of social interaction. The University's residence halls, classrooms, activity groups and final clubs will serve as our laboratory. Students will record their observations and analyses in journal entries.

Note: May be counted for introductory concentration requirement, if letter-graded. This course, when taken for a letter grade, meets the Core area requirement for Social Analysis



Cross-listed Courses

[African and African American Studies 16. Sociology of the Black Community]
[Psychology 15. Social Psychology](#)
[Societies of the World 21 \(formerly Foreign Cultures 63\). China's Two Social Revolutions](#)
[Societies of the World 29. Inequality and Society in 21st Century East Asia]
[Societies of the World 34 \(formerly Foreign Cultures 46\). The Caribbean: Globalization, Socio-Economic Development & Cultural Adaptation](#)
[United States in the World 21 \(formerly Sociology 107\). The American Family](#)
[United States in the World 24 \(formerly Sociology 19\). Reinventing Boston: The Changing American City](#)
[United States in the World 31 \(formerly Social Analysis 54\). American Society and Public Policy](#)

Tutorials

[*Sociology 91r. Supervised Reading and Research](#)

Catalog Number: 4449

David L. Ager and members of the Department

Half course (fall term; repeated spring term). Hours to be arranged.

Individual work in sociology under the supervision of teaching staff in the department. A graded supervised course of reading and research on a topic not covered by regular courses of instruction.

Note: Students negotiate topics on their own. A final paper must be filed in the Sociology undergraduate office.

[*Sociology 95 \(formerly *Sociology 96j\). Research for Nonprofits](#)

Catalog Number: 0136

Alison Denton Jones

Half course (fall term). W., 1–3 with required weekly section W., at 5.

Supports students in carrying out a research project for a nonprofit or volunteer organization of their own choice. Examines theories and practices of the nonprofit sector and research methods. Course combines guest speakers, case work, discussion, and student project presentations.

Note: Required first meeting. Both concentrators and non-concentrators are welcome to apply.

[\[*Sociology 96r. Community Based Research\]](#)

Catalog Number: 7425

Instructor to be determined

Half course (spring term). Hours to be arranged.

One of the few courses at Harvard that integrates students' participation in activities outside the University with course work. Course integrates readings with hands-on research projects in the Boston area. Topics vary; refer to course website for details. Previous topics have included: immigration, marginalization, adolescents, civic activity.

Note: Expected to be given in 2011–12. Both concentrators and non-concentrators are welcome to apply. Required first meeting.



Sociology 97. Tutorial in Sociological Theory

Catalog Number: 5079

David L. Ager

Half course (fall term; repeated spring term). Fall: M., at 4.

Provides a critical understanding of selected classical and contemporary theorists, including Marx, Durkheim, Weber, Simmel, Parsons, Coleman, Collins, Bourdieu, and an up-to-date selection of avant-garde theory.

Note: Required of concentrators, ordinarily sophomores, and secondary concentrators. Required first organizational meeting on September 1, 2010, 4-5pm, for the fall semester. Required first organizational meeting on January 24, 2011, 4-5pm, for the spring semester.

***Sociology 99. Senior Tutorial**

Catalog Number: 6237

David L. Ager and members of the Department

Full course. Hours to be arranged.

Supervision of theses or other honors projects.

Note: Limited to concentrators, ordinarily seniors. In addition, students of Sociology 99 may also participate in a fall term only, optional, regularly scheduled weekly group seminar for consultation and discussion about choice of problems, possible data, and research procedures.

Prerequisite: Sociology 98.

Sociology 98. Junior Tutorials

Small group research projects centered on common topics that vary by seminar, term, and year.

***Sociology 98B. Race and Crime**

Catalog Number: 75945 Enrollment: Limited to 10.

Alicia D. Simmons

Half course (spring term). M., 3–5.

New research on how and why criminal justice policy in the US has such a powerfully differential negative impact on African American communities.

Note: Required of and limited to Sociology concentrators. Spring Junior Tutorials are by assignment only.

Prerequisite: Sociology 97.

***Sociology 98Ga. Understanding Mexican Migration Flows to the US - (New Course)**

Catalog Number: 67322 Enrollment: Limited to 10.

Filiz Garip

Half course (fall term). M., 1–3.

This tutorial guides students through the preparation of an empirical research paper that explores the labor migration of workers from Mexico to the United States using quantitative data and methods.

Note: Required of and limited to Sociology concentrators.

Prerequisite: Sociology 97.



***Sociology 98H. Immigration, Politics, and Movements**

Catalog Number: 91052 Enrollment: Limited to 10.

Luisa Laura Heredia

Half course (spring term). W., 1–3.

Examines immigrant integration in the political sphere. Explores immigrant mobilization and participation in electoral and non-electoral politics.

Note: Required of and limited to Sociology concentrators. Spring Junior Tutorials are by assignment only.

Prerequisite: Sociology 97.

***Sociology 98Ja. Religious Worlds of Boston - (New Course)**

Catalog Number: 49256 Enrollment: Limited to 10.

Alison Denton Jones

Half course (spring term). Tu., 3–5.

Explore the religious landscape of Boston while honing your qualitative research skills.

Examines themes in urban religion like immigration/transnationalism, organizational ecologies, and religious meaning-making. Students conduct in-depth field research projects on religious communities of their choice.

Note: Required of and limited to Sociology concentrators. Spring Junior Tutorials are by assignment only.

Prerequisite: Sociology 97.

***Sociology 98K. Big Bird Goes to China: Organizations, Culture, and Globalization**

Catalog Number: 47313 Enrollment: Limited to 10.

Tamara Kay

Half course (fall term). W., 1–3.

Examines how different kinds of organizations and institutions work internationally and develop relationships with international partners and counterparts.

Note: Required of and limited to Sociology concentrators.

Prerequisite: Sociology 97.

***Sociology 98Ka. Arts, Culture, and Urban Neighborhoods**

Catalog Number: 69744 Enrollment: Limited to 10.

Matthew E. Kaliner and members of the Department

Half course (spring term). W., 2–4.

Reviews the major traditions in urban sociology and the sociology of culture, focusing on the connections between cultural creativity and urban change.

Note: Required of and limited to Sociology concentrators. Spring Junior Tutorials are by assignment only.

Prerequisite: Sociology 97

***Sociology 98M. Social Class in the United States: Identity, Culture, and Consciousness**

Catalog Number: 18222 Enrollment: Limited to 10.

Rachel Meyer

Half course (spring term). Th., 11–1.

This course will review a variety of empirical and theoretical perspectives on social class in the



United States with a focus on class-based identities and class consciousness.

Note: Required of and limited to Sociology concentrators. Spring Junior Tutorials are by assignment only.

Prerequisite: Sociology 97.

***Sociology 98Wb (formerly *Sociology 98Br). Race, Poverty, and Community Justice**

Catalog Number: 24423 Enrollment: Limited to 10.

Kaia Stern

Half course (fall term). Th., 10–11:30.

This course meets inside Norfolk prison and surveys some of the key topics in urban sociology, focusing on major social problems in American cities. Questions considered include: How do we respond to underperforming schools, gang violence, drop-outs, joblessness, drug addiction, poverty and incarceration? How do various political, economic and religious ideologies shape our understandings of race? What kinds of practices lead us out of poverty? Is there a difference between criminal justice and community justice?

Note: Required of and limited to Sociology concentrators.

Prerequisite: Sociology 97.

Sociology 98Wc. Sports and Society - (New Course)

Catalog Number: 62527 Enrollment: Limited to 10.

Mary C. Waters

Half course (spring term). M., 1–3.

This course will examine sports through a sociological lens. We will examine processes of stratification in sports including class, race and gender, as well as sports as a business, the media and sports, and sports and health. Students will do an in depth independent or team based research project on the topic.

Note: Required of and limited to Sociology concentrators. Spring Junior Tutorials are by assignment only.

Prerequisite: Sociology 97

For Undergraduates and Graduates

Sociology 109. Leadership and Organizations

Catalog Number: 8260 Enrollment: Limited to 80.

David L. Ager

Half course (fall term). M., W., at 11. EXAM GROUP: 4

Focus on the sociological study of leadership emphasizing leadership in organizational settings. Topics covered: how leadership, power, influence, and social capital are interrelated; organizations as complex social systems; politics and personalities in organizational life; organization design and culture; leadership of organizational change and transformation; and creating sustainable organizations.

Note: Open to students in all fields. Course relies heavily on the case study method for learning similar to the approach used at the Harvard Law and Business Schools. Enrollment by lottery.

Sociology 121. Religion in a Globalizing World

Catalog Number: 34149



Alison Denton Jones

Half course (spring term). M., W., at 12. EXAM GROUP: 5

Far from disappearing as the world modernized, religion today is found everywhere from the public to private spheres. We will explore the places of religion around the globe, from the rise of religious nationalism to transnational immigration networks.

Sociology 128. Models of Social Science Research

Catalog Number: 5979

Mary C. Waters

Half course (fall term). M., W., at 10. EXAM GROUP: 3

Introduces the methods and logic social scientists use to study the empirical world. Topics include the scientific method, hypothesis testing, measurement of variables, survey research design and sampling, qualitative interviewing, ethnography, experiments, content analysis, GIS, demography, and the ethics of research.

Note: Required of concentrators, ordinarily sophomores, and secondary concentrators.

Sociology 129. Education and Society

Catalog Number: 6298

Mary C. Brinton

Half course (spring term). M., W., at 1. EXAM GROUP: 6

Examines the key role played by the education system in reproducing and transforming modern society. Considers what purposes education serves; the extent to which ability, effort, intelligence and luck determine educational success; why educational attainment is socially stratified by social class origin, gender, 'race' and ethnicity; and how the study of other countries' educational systems can inform understanding of our own.

Sociology 134. Theories of Power and Postcommunist Societies

Catalog Number: 0041

Laura L. Adams

Half course (fall term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17

This course on contemporary social theory has a thematic focus on the concept of power (broadly defined), and an empirical focus on communist and post-communist societies including the former Soviet Union, Eastern Europe, China, and Cuba. Each week will pair readings from a particular school or theorist (Marx, Bourdieu, Foucault, etc.) with readings by authors who employ that theoretical perspective in their research on societies with a legacy of state socialism. Topics covered will include class, colonialism, culture, gender, and resistance. Some background in either social theory or communist societies is recommended.

Sociology 135. Labor, Power, and the Professions - (New Course)

Catalog Number: 55457

Rachel Meyer

Half course (fall term). Tu., Th., at 10. EXAM GROUP: 12

This course focuses on the labor process, including its cultural and subjective aspects. It treats both the structure and experience of work, with an emphasis on the professions and on "flexible" labor.



Sociology 136. The News Media and the Political Process - (New Course)

Catalog Number: 85671 Enrollment: Limited to 80.

Alicia D. Simmons

Half course (fall term). M., W., at 2. EXAM GROUP: 7

Examines the role of the news media in contemporary American politics. Topics include: role of the press in democracy, the media marketplace, factors shaping political news, electoral campaigning through the news, media effects on the public.

Sociology 137. Money, Work, and Social Life

Catalog Number: 1589 Enrollment: Limited to 80.

Filiz Garip

Half course (spring term). M., W., at 12; W., at 6; Th., at 1; Th., at 2; W., at 4; W., at 4. EXAM GROUP: 5

Examining different sectors of the economy from corporations and finance to households, immigrants, welfare, and illegal markets, we explore how in all areas of economic life people are creating, maintaining, symbolizing, and transforming meaningful social relations. Economic life, from this perspective, is as social as religion, family, or education.

[Sociology 138. Political Sociology]

Catalog Number: 25214

Instructor to be determined

Half course (spring term). Tu., Th., at 3.

Who has power and authority in society? How did they get it? How do they keep it? And how do others wrest it away? These are the fundamental concerns of political sociology. In this course we will consider major theories of power and authority and how they help explain politics and political institutions. The course will regularly examine contemporary political figures, institutions, groups, and issues to illustrate and interrogate core concepts.

Note: Expected to be given in 2011–12.

[Sociology 141. Social Institutions of Contemporary China]

Catalog Number: 9333

Martin K. Whyte

Half course (spring term). Hours to be arranged.

Introduction to the patterns of social life in China and how these have changed since the revolution in 1949. Topics covered include political institutions, work organizations, village life, cities, family life, schooling, and inequality.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Foreign Cultures.

[Sociology 145. Urban Social Problems]

Catalog Number: 8737

Kathryn Edin (Kennedy School)

Half course (spring term). Th., at 1, Th., at 2, M., W., at 3.

Examines first the process by which social phenomenon come to be identified as social problems, then turns to how sociologists have studied social problems from the beginning of the 20th century and onward. We conclude with a discussion of contemporary social problems in US



cities (poverty, family structure, neighborhoods, labor markets, crime, and education), how they are framed, and policy solutions.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Social Analysis.

[Sociology 148. We Shall Overcome: Organizing Movements for Social Change]

Catalog Number: 91843

Tamara Kay

Half course (spring term). Hours to be arranged.

Explores the origins, dynamics, and effects of social movements using a sociological perspective. Examines when and why movements occur, the nature of leadership, strategy and decisionmaking, and the factors that affect the fate of movements. Also focuses on the organizing tradition and how activists mobilize others to create fundamental social change.

Note: Expected to be given in 2011–12.

Sociology 155. Class and Culture

Catalog Number: 8934

Timothy Nelson (Kennedy School)

Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

Examines the intersection of social class and culture--both popular culture and "culture" in the anthropological sense. Focus on different class cultures as well as the cultural views of the class system, how social class is embedded in various high and popular cultural products such as art, music books, movies and material goods, and finally the question of how class is reproduced through culture. There will be several short research/analysis projects.

***Sociology 156. Quantitative Methods in Sociology**

Catalog Number: 8958

Patrick J. Moynihan

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. This course, when taken for a letter grade, meets the General Education requirement in Empirical and Mathematical Reasoning or the Core area requirement for Quantitative Reasoning.

***Sociology 159. Social Entrepreneurship**

Catalog Number: 9611 Enrollment: Limited to 80.

David L. Ager

Half course (spring term). Tu., Th., 1-2:30. EXAM GROUP: 15, 16

Focuses on the efforts of private citizens, for-profit and not-for-profit initiatives, to respond to social needs through creative solutions. Topics covered: defining social good, assessing market, philanthropy, and government responses; developing an organizational mission; recognizing specific opportunities for social improvement; forming an enterprise that responds to those opportunities; developing organizational funding strategies; evaluating performance; leading the



enterprise; and creating positive and sustainable social value.

Note: Enrollment by lottery.

[Sociology 160. Medicine, Health Policy and Bioethics in Comparative and Global Perspective: Conference Course]

Catalog Number: 3456

Mary-Jo Del Vecchio Good (Medical School)

Half course (spring term). W., 1–3.

Complements Sociology 162. Examines the culture and political economy of biomedicine and health care institutions in the US and internationally. Analysis of current debates on medical education and the new professionalism; clinical narratives, the medical imaginary and the biotechnical embrace; cultural diversity, disparities and inequalities in medical and mental health care; medical error and quality of care; just use of societal resources; and bioethical dilemmas in clinical practice, medical missions and interventions, and international research and health policies.

Note: Expected to be given in 2011–12.

Sociology 161. Globalization

Catalog Number: 55428

Rachel Meyer

Half course (spring term). M., W., at 11. EXAM GROUP: 4

Focuses on the development of global capitalism and the relationship between markets, the state, and civil society. The course will pay particular attention to power and inequality, and to various forms of resistance against globalization.

Sociology 165. Inequalities in Health Care

Catalog Number: 8272

Mary Ruggie (Kennedy School)

Half course (fall term). M., W., at 1. EXAM GROUP: 6

Asks why certain social groups are at greater risk for more severe health problems (e.g., infant mortality, HIV/AIDS, cancer) and yet receive unequal health care in the US. Examines what best practices foster adequate delivery of healthcare services, mutual respect between patient and provider, and healthy living. Considers the role of government, the private sector, family and community.

Note: This course, when taken for a letter grade, meets the Core area requirement for Social Analysis.

***Sociology 167. Visualizing Human Rights and Social Change in Documentary Photography and Film**

Catalog Number: 6911 Enrollment: Limited to 35.

Tamara Kay

Half course (fall term). Th., 1–4; M., 7–10 p.m. EXAM GROUP: 15, 16, 17

Explores role of documentary photography and film in promoting rights and advocating social change, particularly in the realm of human rights. Examines history of documentary film and photography in relationship to politics and the development of concerns in sociology with inequality and social justice. Looks at how individual documentarians, non-profit organizations



and social movements use film and photography to further their goals and causes. A variety of documentary film and photography genres such as historical, biographical, ethnographic, satire, and political expose will be examined and compared to processes by which filmmakers and photographers engage in social documentation.

Note: This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts B.

[Sociology 171. Sociology of Crime and Punishment]

Catalog Number: 9922

Bruce Western

Half course (spring term). M., W., at 2.

The US penal population now numbers more than 2.2 million people and nearly a third of all African American men will be sentenced to prison at some time in their lives. This course studies these and other crime and criminal justice trends, analyzing them from a sociological perspective. From this perspective crime and state responses to crime are historically variable and often rooted in conflicts over the status of marginal social groups.

Note: Expected to be given in 2011–12. Offered jointly with the Kennedy School as CCJ-202.

Sociology 175. Sociology of Immigration

Catalog Number: 76736

Luisa Laura Heredia

Half course (fall term). M., W., at 12. EXAM GROUP: 5

Provides an overview of important concepts and trends in US immigration studies. The course examines social, cultural, economic, and political trends. Answers such questions as: How are new immigrants and their children being incorporated into the US? How is American society changing as a result of immigration? And, what are the political and social responses of the American public toward immigration?

[Sociology 177. Hurricane Katrina: Disaster and Its Aftermath]

Catalog Number: 7253 Enrollment: Limited to 15.

Mary C. Waters

Half course (fall term). Hours to be arranged.

Examines Hurricane Katrina through the lens of the social sciences. Reviews the history of New Orleans, the sociological literature on disasters, and examines how race, class and gender shaped the experiences of the storm and its aftermath. We will review research on the survivors and on the city of New Orleans and debate public policy solutions.

Note: Expected to be given in 2011–12.

Sociology 183. Race and Ethnic Relations

Catalog Number: 70535

Lawrence D. Bobo

Half course (spring term). M., 3–5. EXAM GROUP: 8, 9

Focuses on ethno-racial distinctions as they have played out in the US, particularly in the period from post-World War II to the present. The specific topics covered include the concept of race itself, sociological theories of racial and ethnic stratification, processes of assimilation, new and changing ethno-racial identities, contemporary ethno-racial conflicts and tensions, immigration



in the post-1965 period, whiteness studies, and the politics of affirmative action. In the process of addressing these large and cross-cutting topics we will also take up a host of related issues dealing with such matters as income and wealth differentials; schooling and its outcomes; families, interracial marriages, and the experiences and identities of people of mixed racial background; minority vs. minority competition, the future of immigration; and the politics of reparations.

[*Sociology 185. Race and Crime in America]

Catalog Number: 4244

Lawrence D. Bobo

Half course (fall term). Hours to be arranged.

Examines sociological thinking and research on race and crime. General theories of involvement in crime and deviance will be discussed with special attention to issues of youth gangs, to impact of poverty and of racial residential segregation on involvement in crime, and the impact of high rates of incarceration on minority communities. The course will address the tightly interconnected politics of race and crime as well the role the media plays in fostering fear of crime and racial stereotypes. Finally, the course will engage the major public policy questions raised by the now historic high rates of incarceration of minority youth.

Note: Expected to be given in 2011–12.

Sociology 190. Life and Death in the US: Medicine and Disease in Social Context

Catalog Number: 0021

Nicholas A. Christakis (Medical School, FAS)

Half course (spring term). M., W., at 3. EXAM GROUP: 8

Explores how biological and social factors jointly conspire to determine the health of individuals and populations. Examines how medical care, social networks, and socioeconomic inequality influence illness, recovery, and death.

Note: This course, when taken for a letter grade, meets the General Education requirement for United States in the World or the Core area requirement for Social Analysis.

Cross-listed Courses

African and African American Studies 115. HBO's The Wire and its Contribution to Understanding Urban Inequality - (New Course)

[African and African American Studies 147. Racial Identity, Politics, and Public Policy]

[African and African American Studies 197. Poverty, Race, and Health]

***Government 1010a. Survey Design - (New Course)**

[History of Science 157. Sociology of Science]

Societies of the World 44. Human Trafficking, Slavery and Abolition in the Modern World - (New Course)

Studies of Women, Gender, and Sexuality 1125. Gender and Health

Primarily for Graduates

***Sociology 202. Intermediate Quantitative Research Methods**

Catalog Number: 4117



Peter V. Marsden

Half course (spring term). Tu., Th., 9–11:30. EXAM GROUP: 11, 12, 13

Research designs and measurement techniques used in quantitative sociological research. Regression methods for continuous and binary response variables, including categorical predictors, nonlinearity interactions, diagnostics, and criticism. Emphasis on applications and implementation.

Note: Required of, and ordinarily limited to, first-year graduate students in Sociology

Prerequisite: Familiarity with basic statistics.

***Sociology 203a. Advanced Quantitative Research Methods**

Catalog Number: 3315

Christopher Winship

Half course (fall term). Tu., Th., 10–12.

Matrix approach to regression analysis with an emphasis on the assumptions behind OLS. Instrumental variables, generalized least squares, probit and logit models, survival analysis, hierarchical linear models, and systems of equations are studied.

Note: Required of, and ordinarily limited to, second-year graduate students in Sociology.

Prerequisite: Sociology 202 or basic course in regression analysis.

Sociology 204. Classical Social Theory

Catalog Number: 6189

Adam B. Seligman

Half course (fall term). W., 1–3.

Introduction to the formative ideas and socio-intellectual contexts of 19th and early 20th century sociological theory. Course will explore social thought from the perspective provided by the problem of social order - and the roles different thinkers attributed to such factors as solidarity, power, and meaning as solutions to this problem. Consideration of the continuing significance of these ideas for contemporary social thought.

Note: Required of and limited to first-year graduate students in Sociology.

***Sociology 205. Sociological Research Design**

Catalog Number: 8972

Jocelyn Viterna

Half course (fall term). W., 10–12.

This course covers the fundamentals of social science research design. Emphasis is placed on principles that are applicable in all kinds of research, including surveys, participant observation, comparative historical study, and demographic analysis. The course also delves into current methodological controversies in several arenas.

Note: Required of, and ordinarily limited to, first-year graduate students in Sociology.

Sociology 206. The Sociology of Development: Seminar

Catalog Number: 9026

Martin K. Whyte

Half course (spring term). Tu., 1–3.

Examines debates surrounding the nature of the process of economic development. Major



attention is devoted to rival theories of where and why development occurs and to a variety of social consequences of economic development.

***Sociology 208. Contemporary Theory and Research: Seminar**

Catalog Number: 6080

Mary C. Brinton

Half course (fall term). W., 10–12.

Covers the development of sociology as a discipline in the US and the rise of distinct schools of sociological theory. Assesses the role of mechanisms in sociological theory and explores the use of theory in empirical research.

Note: Required of and limited to second-year graduate students in Sociology.

***Sociology 209. Qualitative Social Analysis: Seminar**

Catalog Number: 1198

Orlando Patterson

Half course (spring term). Hours to be arranged.

Examines approaches to non-numerical data used by social scientists to obtain valid, reliable, and meaningful insight into the social world through the analysis of ethnographic field notes, interview transcripts, and archival and other interpretative data.

Note: Required of and limited to first-year graduate students in Sociology.

[*Sociology 210. Issues in the Interpretation of Empirical Evidence: Seminar]

Catalog Number: 2882

Stanley Lieberman

Half course (spring term). W., 3–5.

Special problems occur in the interpretation of either qualitative or quantitative results based on non-experimental data--whether from surveys, historical research, or field work. These issues differ from those that can be resolved through statistical solutions.

Note: Expected to be given in 2011–12.

***Sociology 217. Sociology of Families and Kinship: Seminar**

Catalog Number: 8522

Martin K. Whyte

Half course (fall term). Tu., 1–3.

Examines research on family patterns, combining a focus on how family patterns vary and change over time and how individuals differ in their experience of life course transitions, such as marriage, divorce, and retirement.

***Sociology 224. Organizational Analysis: Seminar**

Catalog Number: 8202

Christopher Marquis (Business School)

Half course (spring term). Tu., Th., 2–4:30.

Reviews classical and contemporary theories of organizations, including ecological, institutional, resource dependence, transaction-cost, agency theory, networks and social movements.

Examines phenomena at multiple levels from the establishment to the organizational network or



field.

Note: Offered jointly with the Business School.

***Sociology 226. The Sociology of Culture - (New Course)**

Catalog Number: 30907

Orlando Patterson

Half course (fall term). Th., 2–4.

[*Sociology 236. Selected Topics in Culture and Inequality]

Catalog Number: 0582

Michèle Lamont

Half course (spring term). Hours to be arranged.

Introduction to cultural sociology, particularly as it intersects with the study of inequality.

Topics: Symbolic boundaries, cultural capital, cultural consumption, identity, race and class cultures, anti-racism, cultural repertoires, explanation, interpretation, and comparative research strategies.

Note: Expected to be given in 2011–12.

[Sociology 237. Contemporary Chinese Society: Seminar]

Catalog Number: 4320

Martin K. Whyte

Half course (spring term). Tu., 1–3.

A seminar devoted to the intensive analysis of a particular aspect of contemporary Chinese society. This year the focus will be on trends in inequality and stratification in China.

Note: Expected to be given in 2011–12.

***Sociology 243. Economic Sociology**

Catalog Number: 2022

Filiz Garip

Half course (fall term). M., 4–6.

Introduction to economic sociology at the graduate level. Surveys economic inequality and the ways that economic behavior and outcomes are shaped by social institutions such as markets, networks, organizations, family, and culture.

[Sociology 248. Race, Politics, and Social Inequality: Seminar]

Catalog Number: 8035

Lawrence D. Bobo

Half course (spring term). Hours to be arranged.

Examines intersection of race, public will, and policy-making. Reviews theories of race-making and racial inequality, dynamics of public opinion, and effects of a racialized public sphere on social policy. Focuses on the welfare state, the criminal justice system, and the dynamics of a multiethnic society.

Note: Expected to be given in 2011–12.

[Sociology 252. Sociology of Gender]

Catalog Number: 9968



Jocelyn Viterna

Half course (fall term). Hours to be arranged.

Examines (1) the biological and social bases of gender; (2) feminist theories; (3) how gender both affects, and is affected by, major social institutions; and (4) gender in the global south.

Note: Expected to be given in 2011–12.

***Sociology 255. Social Stratification: Seminar**

Catalog Number: 3839

Jason Beckfield

Half course (spring term). W., 1–3.

Examines theoretical and empirical approaches to understanding the sources, structure and consequences of persistent social inequalities.

[Sociology 267. Political Sociology]

Catalog Number: 42489

Instructor to be determined

Half course (spring term). Hours to be arranged.

Examines power relations between state and society. Focuses on state formation, organization & development, and challenges to state authority and policies. Engages debates on role of states in international arena.

Note: Expected to be given in 2011–12.

***Sociology 275. Social Network Analysis: Seminar**

Catalog Number: 6899

Peter V. Marsden

Half course (fall term). M., 1–3.

Concepts and methods for studying social structure using social networks. Approaches to collecting network data; data quality; graph-theoretic, statistical, and visual approaches to analyzing network data, including blockmodels and multidimensional scaling.

***Sociology 296a. Proseminar on Inequality & Social Policy I**

Catalog Number: 67293

Kathryn Edin (Kennedy School) and Jeffrey B. Liebman (Kennedy School)

Half course (fall term). W., 2–4.

Considers the effects of policies and institutions in creating or reducing inequality in the U.S. and other advanced democracies, as well as the reciprocal effects of inequality on political activity and policy choices.

Note: Offered jointly with the Kennedy School as SUP-921.

Cross-listed Courses

[African and African American Studies 211. Social Structure and Culture in the Study of Race and Urban Poverty]

***Government 2340b. Social Policy II**

[*Government 2360. Obama's Agenda and the Dynamics of U.S. Politics: Seminar]

***Psychology 2630. Social Behavior in Organizations: Seminar**



Graduate Courses of Reading and Research

***Sociology 300hf (formerly *Sociology 300). Workshop on Race: Black Youth Culture**

Catalog Number: 6654

Orlando Patterson 1091

Half course (throughout the year). F., 12–2.

A venue for graduate students and 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

David L. Ager 5142, Jason Beckfield 5612, Lawrence D. Bobo 2919, Mary C. Brinton 4567, Nicholas A. Christakis (Medical School) 4459, Frank Dobbin 4622 (on leave 2010-11), Kathryn Edin (Kennedy School) 5952, Filiz Garip 5887, Mary-Jo Del Vecchio Good (Medical School) 7721, Christopher Jencks (Kennedy School) 2160, Tamara Kay 5611, Michèle Lamont 4634, Stanley Lieberson 1937, Peter V. Marsden 1797, Orlando Patterson 1091, Robert J. Sampson 4546, Theda Skocpol 1387, Jocelyn Viterna 5860, Mary C. Waters 1498, Bruce Western 5763 (on leave 2010-11), Martin K. Whyte 3737, William Julius Wilson 2401, and Christopher Winship 3189

Half course (fall term; repeated spring term). Hours to be arranged.

***Sociology 302. Direction of Doctoral Dissertations**

Catalog Number: 5021

Members of the Department

***Sociology 303a. Advanced Topics in Quantitative Research**

Catalog Number: 5636

Christopher Winship 3189

Half course (fall term; repeated spring term). Hours to be arranged.

Examines current methodological scholarship in the social sciences with an eye to assessing its quality and potential for advancing quantitative methods. Recently published and unpublished work by local scholars examined.

[*Sociology 304. Culture and Social Analysis Workshop]

Catalog Number: 2809

Michèle Lamont 4634

Half course (fall term; repeated spring term). M., 4–6.

A venue for those working on topics such as meaning-making, identity, collective memory, symbolic boundaries, cultural capital, class cultures, popular culture, media, disciplinary cultures, and the impact of culture on inequality.

Note: Expected to be given in 2011–12.

***Sociology 305. Teaching Practicum**

Catalog Number: 0259

David L. Ager 5142



Half course (fall term). W., 4–6. EXAM GROUP: 9

Note: Required of and limited to graduate students in Sociology. Attendance at first meeting is required.

***Sociology 307. Proseminar on Inequality and Social Policy III**

Catalog Number: 0137

Christopher Jencks (Kennedy School) 2160

Half course (fall term). M., 2–4.

Students develop previously completed papers from Sociology 296a or 296b into professional presentations and publishable articles, critique peer papers across disciplines, and discuss presentations of national experts.

Note: Offered jointly with the Kennedy School as SUP-923.

Prerequisite: Sociology 296a and Gov 2340b (or SUP-921 and 922 at the Kennedy School)

***Sociology 308. Workshop on Economic Sociology**

Catalog Number: 0086

Jason Beckfield 5612 5612

Half course (fall term; repeated spring term). W., 3:30–5.

Presentations and discussions of new research by members of the community and visiting scholars. Students are exposed to the major paradigms in the field, and see how research articles are developed and refined.

***Sociology 309. Migration and Immigrant Incorporation Workshop**

Catalog Number: 9932

Mary C. Waters 1498

Half course (fall term; repeated spring term). Fall: Tu., 12–2.

Bi-weekly colloquium for graduate students that examines international migration and the incorporation of migrants into host societies. Students participate in meetings and present original work in progress.

***Sociology 310a. Qualifying Paper A**

Catalog Number: 0085

Filiz Garip 5887

Half course (spring term). M., 2–4.

Guides students through the process of producing an original research paper of high quality. Readings and discussion cover the identification of appropriate research problems, the nature of causal reasoning, and data analysis and write-up.

Note: Required of, and ordinarily limited to, second-year graduate students while writing the qualifying paper. Prerequisite to 310b, to be offered fall term.

***Sociology 310b. Qualifying Paper B**

Catalog Number: 4625

Jocelyn Viterna 5860

Half course (fall term). F., 2–4.

Guides students through the process of producing an original research paper of high quality. Readings and discussion cover the identification of appropriate research problems, the nature of



causal reasoning, and data analysis and write-up.

Note: Required of, and ordinarily limited to, third-year graduate students while writing the qualifying paper.

Prerequisite: 310a.

***Sociology 314. Workshop on Urban Social Processes**

Catalog Number: 16972

Christopher Winship 3189

Half course (fall term; repeated spring term). Fall: Th., 4–6. EXAM GROUP: Fall: 18

Forum for discussion of analytic sociological research on city and community. Covering a range of topics with a focus on social mechanisms, processes, and structures. The workshop aims to support the presentation of graduate student research but will also include discussion sessions on selected readings and work-in-progress by faculty at Harvard and colleagues around the country.

***Sociology 315. Inequality and Social Policy: Seminar**

Catalog Number: 65203

Kathryn Edin (Kennedy School)

Half course (fall term; repeated spring term). Hours to be arranged.

***Sociology 390. Health and Social Structure**

Catalog Number: 6282

Nicholas A. Christakis (Medical School) 4459

Full course. Th., 1–2:30.

Considers advanced topics in how supra-individual factors, such as social networks, neighborhoods, and health care organizations, contribute to individual health and longevity. Students develop and present original research plans and research.

Note: Course meets at Harvard Medical School.

Cross-listed Courses

***Government 3004. Research Workshop in American Politics**

***Social Policy 301. Research and Social Policy Seminar**

South Asian Studies

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

The 2010-2011 membership of this committee has not yet been finalized. Complete membership information for 2010-2011 will be posted as soon as it becomes available.



Faculty of the Committee on South Asian Studies

The Committee on South Asian Studies is a multi-disciplinary group of scholars appointed to coordinate teaching and research on South Asia (the nation-states of India, Pakistan, Bangladesh, Sri Lanka, Afghanistan, Nepal, Bhutan, the Maldives and their neighboring areas) among Harvard's departments and schools and is concerned with the planned development of South Asian Studies in the University as a whole. It works in close collaboration with the Asia Center, especially its South Asia Initiative, to promote the study of South Asia in a comparative and global context. In association with the South Asia Initiative, it sponsors lectures, seminars, conferences, films and exhibitions on South Asia. There are currently two FAS seminar series wholly focused on South Asia: South Asia without Borders and the South Asia Seminar.

The Committee is working to expand the range of curricular options open to undergraduates. An undergraduate concentration is currently offered in the Department of Sanskrit and Indian Studies. Graduate degrees with a South Asian focus can be sought in the Departments of History, Religion, Sanskrit and Indian Studies and other departments. A PhD degree can be pursued in the Department of History in South Asian and Indian Ocean History. South Asian religions can be studied towards a PhD degree under the Committee on the Study of Religion. The Department of Near Eastern Languages and Civilizations offers a PhD track in Indo-Islamic culture. The South Asia Initiative awards several South Asia-related undergraduate and graduate research and travel grants and fellowships.

At present, Harvard offers more than 100 non-language courses in South Asian Studies in various departments of the Faculty of Arts and Sciences and Professional Schools on a regular basis, with many offered every year and all offered at least once every three years. Of these, over 60 consist of 100 percent South Asian content. Nearly 40 courses contain at least 25 percent South Asian content. More than 30 language courses are offered with at least three-year sequences in Hindi-Urdu and Sanskrit. Reciprocal cross-registration agreements are in place with the Massachusetts Institute of Technology and for graduate students at the Fletcher School of Law and Diplomacy at Tufts University.

Core Courses of Interest

[**Aesthetic and Interpretive Understanding 30 \(formerly Literature and Arts A-92\). Love In A Dead Language: Classical Indian Literature and Its Theorists Culture and Belief 19 \(formerly Foreign Cultures 70\). Understanding Islam and Contemporary Muslim Societies Societies of the World 36 \(formerly Historical Study A-16\). Modern South Asia in Global History**](#)

Courses of Interest

[Anthropology 1630. Spirits, People, Place and Things: The Anthropology of Religion]

[Anthropology 1805. Language and Political Economy in Globalizing India]

***Anthropology 3100. Old World Archaeology (Europe, Asia, and Africa)**



[***Anthropology 3111. Asiatic Archaeology and Ethnography**](#)
[**Economics 2390b. Development Economics I: Microeconomic Issues**](#)
[***Economics 2390dhf. Research in Economic Development**](#)
[***Government 98wd. Islam and Secular Public Spaces: Case Studies from Pakistan, Egypt and the West - \(New Course\)**](#)
[**Government 1255. The Politics of India**](#)
[***Hindi 101ab. Intensive Introductory Hindi**](#)
[**\[*History 72a \(formerly *History 1425\). The Rise of the British Empire, 1757-1857\]**](#)
[***History 86d \(formerly *History 1895\). The Indian Ocean in Comparative Perspective**](#)
[**\[*History 86e \(formerly *History 1897\). Nation, Reason and Religion in South Asia\]**](#)
[**History 1968. United Nations: A Global History: Conference Course - \(New Course\)**](#)
[**History 2692 \(formerly History 2892\). Colonial and Post-Colonial Histories of South Asia: Seminar**](#)
[***Indian Studies 90r. South Asian Language Tutorials**](#)
[**Indian Studies 219. Introduction to World Mythology - \(New Course\)**](#)
[**Indian Studies 220. Brahmanas: Seminar - \(New Course\)**](#)
[**Indian Studies 221. Manuscripts, Palaeography and Text Editing - \(New Course\)**](#)
[***Indian Studies 302. Reading and Research**](#)
[***Islamic Civilizations 241r. Approaches to Studying Indo-Muslim Culture and South Asian Islam**](#)
[**Linguistics 122. Introduction to Indo-European**](#)
[**Linguistics 220ar. Advanced Indo-European**](#)
[**Linguistics 221r. Workshop in Indo-European**](#)
[**\[Music 190gw \(formerly Music 190rs\). Topics in World Music: Proseminar\]**](#)
[**Music 190r. Topics in World Music: Proseminar**](#)
[**Music 201b. Current Methods in Ethnomusicology**](#)
[**Music 207r. Ethnomusicology: Seminar**](#)
[**\[Nepali 101a. Introductory Nepali\]**](#)
[**\[Nepali 101b. Introductory Nepali\]**](#)
[**Nepali 102a. Intermediate Nepali**](#)
[**Nepali 102b. Intermediate Nepali**](#)
[**Nepali 104a. Readings in Modern Nepali Literature - \(New Course\)**](#)
[**Nepali 104b. Readings in Modern Nepali Literature - \(New Course\)**](#)
[**Pali 101a. Introductory Pali**](#)
[**Pali 101b. Introductory Pali**](#)
[**Pali 102a. Intermediate Pali**](#)
[***Pali 102b. Intermediate Pali**](#)
[**\[Pali 103r. Readings in Pali\]**](#)
[**Persian A. Elementary Persian**](#)
[**Persian 120a. Intermediate Persian I**](#)
[**Persian 120b. Intermediate Persian II**](#)
[**Persian 132r. Advanced Persian**](#)
[**Persian 150r. Readings in Persian Historians, Geographers and Biographers**](#)
[***Persian 300. Persian Language and Literature**](#)
[**Religion 1063. South Asian Religious Aesthetics: Seminar**](#)
[**\[Religion 1627. Hindu Ethics: Seminar\]**](#)



[Religion 1631. Hindu Traditions of Devotion]

[Religion 1655. Gandhi, Then and Now: Seminar - \(New Course\)](#)

[Religion 1706. South Asian Buddhism: Dharmas, Emptiness, and Idealism]

[*Religion 1820 \(formerly *Religion 1585\). Muslim Societies in South Asia: Religion,](#)

[Culture, and Identity](#)

[Religion 2030. Thinking About History in South Asia: Seminar](#)

[Sanskrit 101a. Elementary Sanskrit](#)

[Sanskrit 101b. Elementary Sanskrit](#)

[Sanskrit 102a. Intermediate Sanskrit I](#)

[Sanskrit 102b. Intermediate Sanskrit II](#)

[Sanskrit 200ar \(formerly Sanskrit 212ar\). Advanced Poetic Sanskrit](#)

[Sanskrit 200br \(formerly Sanskrit 212br\). Advanced Literary Sanskrit](#)

[Sanskrit 201ar. Advanced Philosophical Sanskrit]

[Sanskrit 201br. Advanced Philosophical Sanskrit]

[Sanskrit 204ar. Introduction to Vedic Sanskrit and Literature]

[Sanskrit 214. Ritual Sutras](#)

[*Sanskrit 301. Reading and Research](#)

[Studies of Women, Gender, and Sexuality 1163. Cultures of Sexuality in Global Perspective](#)

[- \(New Course\)](#)

[Urdu 101. Introductory Urdu-Hindi](#)

[Urdu 102. Intermediate Urdu-Hindi](#)

[Urdu 103a. Advanced Urdu-Hindi](#)

[Urdu 103b. Advanced Urdu-Hindi](#)

[Urdu 104. The Classical Urdu Ghazal and Its Symbolism: Seminar](#)

[Urdu 105r. Topics in Urdu-Hindi Literature](#)

[Urdu 106r. Advanced Oral Proficiency in Urdu-Hindi](#)

Special Concentrations

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Committee on Degrees in Special Concentrations

Julie A. Buckler, Professor of Slavic Languages and Literatures, Harvard College Professor
(Chair) (on leave 2010-11)

Deborah D. Foster, Senior Lecturer on Folklore and Mythology (Director of Undergraduate
Studies)

Byron J. Good, Professor of Medical Anthropology in the Department of Social Medicine
(Medical School)



Mary-Jo Del Vecchio Good, Professor of Social Medicine (*Medical School*)
David A. Haig, George Putnam Professor of Organismic and Evolutionary Biology, Harvard College Professor
Jerold Kayden, Frank Backus Williams Professor of Urban Planning and Design (*Design School*)
Elizabeth Dyrud Lyman, Assistant Professor of English and American Literature and Language
Stephen A. Marglin, Walter S. Barker Professor of Economics
Sandra Naddaff, Senior Lecturer on Literature and Comparative Literature
D. N. Rodowick, William R. Kenan, Jr. Professor of Visual and Environmental Studies
Peter P. Rogers, Gordon McKay Professor of Environmental Engineering (*on leave 2010-11*)
Daniel M. Wegner, John Lindsley Professor of Psychology in Memory of William James
Richard K. Wolf, Professor of Music

Application forms and information on completing petitions for Special Concentrations may be obtained from the Committee's office, located in Warren House (near the Barker Center).

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 term completing their senior project to meet the Basic (rather than Honors) requirements for concentration. May be repeated with the permission of the Director of Undergraduate Studies and the Faculty Adviser. Students must secure the written approval of the faculty member with whom they wish to study and the signature of the Faculty Adviser and the Director of Undergraduate Studies of Special Concentrations.

***Special Concentrations 97r. Tutorial — Sophomore Year**

Catalog Number: 2660

Deborah D. Foster and members of the Committee

Half course (fall term; repeated spring term). Hours to be arranged.

Note: Ordinarily taken by honors sophomores.

***Special Concentrations 98r. Tutorial — Junior Year**

Catalog Number: 2497

Deborah D. Foster and members of the Committee



Half course (fall term; repeated spring term). Hours to be arranged.

Note: Successful completion two terms of *Special Concentrations 98r are ordinarily required of all honors concentrators in their junior year. Exceptions to this can only be granted with the consent of the Faculty Adviser and the Director of Undergraduate Studies of Special Concentrations.

***Special Concentrations 99. Tutorial — Senior Year**

Catalog Number: 3294

Deborah D. Foster and members of the Committee

Full course. Hours to be arranged.

Note: Ordinarily taken by honors seniors as a full course. Either half year may be taken as a half course only with the consent of the Faculty Adviser and the Director of Undergraduate Studies of Special Concentrations. Graded Sat/Unsat.

Statistics

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Department of Statistics

Carl N. Morris, Professor of Statistics (*Chair and Co-Director of Graduate Studies*)

Alan Agresti, Visiting Professor of Statistics (*University of Florida*)

Edoardo Maria Airoidi, Assistant Professor of Statistics

Joseph K. Blitzstein, Assistant Professor of Statistics (*Co-Director of Undergraduate Studies*)

Stephen James Blyth, Lecturer on Statistics

Yves Rene Chretien, Lecturer on Statistics

Tirthankar Dasgupta, Assistant Professor of Statistics (*Co-Director of Graduate Studies*)

S.C. Samuel Kou, Professor of Statistics

Yoonjung Lee, Assistant Professor of Statistics

Jun S. Liu, Professor of Statistics

Xiao-Li Meng, Whipple V.N. Jones Professor of Statistics (*on leave 2010-11*)

Michael Isaac Parzen, Senior Lecturer on Statistics

Natesh S. Pillai, Assistant Professor of Statistics

Kevin Andrew Rader, Preceptor in Statistics

Donald B. Rubin, John L. Loeb Professor of Statistics

Other Faculty Offering Instruction in the Department of Statistics



Arthur P. Dempster, Professor of Theoretical Statistics, Emeritus
 Mark E. Glickman, Visiting Associate Professor of Statistics (*Boston University*)
 David P. Harrington, Professor of Biostatistics (*Public Health*)
 Xiaole Shirley Liu, Associate Professor of Biostatistics (*Public Health*)
 Bernard Rosner, Professor of Medicine (Biostatistics)
 Patrick J. Wolfe, Associate Professor of Electrical Engineering on the Gordon McKay
 Endowment (*on leave spring term*)
 Alan M. Zaslavsky, Professor of Health Care Policy (Statistics) (*Medical School*)

Statistics is a relatively young discipline organized around the rapidly growing body of knowledge about quantitative methods for the analysis of data, the making of rational decisions under uncertainty, the design of experiments, and the modeling of randomness and variability in the social and natural sciences.

A basic introduction to the field is provided by any of Statistics 100 through 104, which introduce statistical principles (without any mathematical or statistical prerequisite), with different areas of application emphasized as indicated in the descriptions. Statistics 100, 101, and 104 are Gen Ed-eligible, within the Empirical and Mathematical Reasoning category.

Empirical and Mathematical Reasoning 16: Real Life Statistics: Your Chance at Happiness (or Misery) is a newly designed Gen Ed course introducing statistical principles and reasoning as they arise in everyday life, organized through modules on various areas of application such as health, wine-tasting, and finance.

An introduction to probability and statistics at a higher mathematical and theoretical level is provided by Statistics 110 together with Statistics 111. These courses provide a foundation for understanding random variables, statistical models, and statistical inference, and are prerequisites for most of the department's more advanced courses.

Statistics 101 and 104 will be accepted as fulfilling any requirement or prerequisite that is fulfilled by Statistics 100. Consult the Statistics Department or your tutorial office for more information about courses that satisfy your concentration requirements or for guidance on selecting courses. More detailed information can be accessed at the Statistics Department website: www.stat.harvard.edu.

Primarily for Undergraduates

***Statistics 91r. Supervised Reading and Research**

Catalog Number: 6641

Joseph K. Blitzstein, David P. Harrington (Public Health), and members of the Department
Half course (fall term; repeated spring term). Hours to be arranged.

Supervised reading and research in an area of statistics agreed upon by the student and a faculty adviser.

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 Co-Directors of Undergraduate Studies.



***Statistics 99hf. Tutorial — Senior Year**

Catalog Number: 4381

David P. Harrington (Public Health) and Joseph K. Blitzstein

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 as a half course in the spring term only; for further information consult Co-Directors of Undergraduate Studies.

For Undergraduates and Graduates

Statistics 100. Introduction to Quantitative Methods for the Social Sciences and Humanities

Catalog Number: 3808

Mark E. Glickman (Boston University) (fall term) and David P. Harrington (Public Health) (spring term)

Half course (fall term; repeated spring term). Fall: M., W., F., at 10, and weekly sections to be arranged; Spring: M., W., F., at 11, and weekly sections to be arranged. EXAM GROUP: Fall: 3; Spring: 4

Introduction to key ideas underlying statistical and quantitative reasoning. Topics covered: methods for organizing, summarizing and displaying data; elements of sample surveys, experimental design and observational studies; methods of parameter estimation and hypothesis testing in one- and two-sample problems; regression with one or more predictors; correlation; and analysis of variance. Explores applications in a wide range of fields, including the social and political sciences, medical research, and business and economics.

Note: Only one of the following courses may be taken for credit: Statistics 100, 101, 104. This course, when taken for a letter grade, meets the General Education requirement for Empirical and Mathematical Reasoning or the Core area requirement for Quantitative Reasoning.

Statistics 101. Introduction to Quantitative Methods for Psychology and the Behavioral Sciences

Catalog Number: 5128

Alan Agresti (University of Florida)

Half course (fall term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

Similar to Statistics 100, but emphasizes concepts and practice of statistics used in psychology and other social and behavioral sciences. Topics covered: describing center and variability; probability and sampling distributions; estimation and hypothesis testing for comparing means and comparing proportions; contingency tables; correlation and regression; multiple regression; analysis of variance. Emphasis on translation of research questions into statistically testable hypotheses and models, and interpretation of results in context.

Note: Only one of the following courses may be taken for credit: Statistics 100, 101, 104. This course, when taken for a letter grade, meets the General Education requirement for Empirical and Mathematical Reasoning or the Core area requirement for Quantitative Reasoning.

Statistics 104. Introduction to Quantitative Methods for Economics

Catalog Number: 4582

Michael Isaac Parzen

Half course (fall term; repeated spring term). Lecture 1: M., W., F., at 11; Lecture 2: M., W., F.,



at 1, and weekly sections to be arranged. EXAM GROUP: 4

Similar to Statistics 100, but emphasizes applications in fields including, but not limited to, economics, health sciences and policy analysis. Topics covered: descriptive and summary statistics for both measured and counted variables; elements of experimental and survey design; probability; and statistical inference including estimation and tests of hypotheses as applied to one- and two-sample problems, multiple regression, correlation, and analysis of variance. Taught at a slightly higher level than Statistics 100 and 101.

Note: Only one of the following courses may be taken for credit: Statistics 100, 101, 104. This course, when taken for a letter grade, meets the General Education requirement for Empirical and Mathematical Reasoning or the Core area requirement for Quantitative Reasoning.

Statistics 107. Introduction to Business and Financial Statistics - (New Course)

Catalog Number: 76433

Michael Isaac Parzen

Half course (spring term). Tu., Th., 10–11:30. EXAM GROUP: 12, 13

This course introduces the technical skills required for data-driven analysis of business and financial data. Emphasis is placed on applying statistical methods to summarize and make inferences from complex data and to develop quantitative models to assist business decision making. The software packages Excel and R will be used to obtain quantitative solutions to financial problems. Topics include: understanding the concept of risk, portfolio construction and analysis, valuing options, testing trading systems, and simulation techniques.

Prerequisite: Statistics 100, 101, 104 or equivalent

Statistics 110. Introduction to Probability

Catalog Number: 0147

Joseph K. Blitzstein

Half course (fall term). M., W., F., at 12, and weekly sections to be arranged. EXAM GROUP: 5

A comprehensive introduction to probability. Basics: sample spaces and events, conditional probability, and Bayes' Theorem. Univariate distributions: density functions, expectation and variance, Normal, t, Binomial, Negative Binomial, Poisson, Beta, and Gamma distributions. Multivariate distributions: joint and conditional distributions, independence, transformations, and Multivariate Normal. Limit laws: law of large numbers, central limit theorem. Markov chains: transition probabilities, stationary distributions, convergence.

Note: This course, when taken for a letter grade, meets the Core area requirement for Quantitative Reasoning.

Prerequisite: Mathematics 19a or equivalent or above required (may be taken concurrently), Mathematics 19b or equivalent or above recommended.

Statistics 111. Introduction to Theoretical Statistics

Catalog Number: 1836

Edoardo Maria Airoidi

Half course (spring term). Tu., Th., 1-2:30, and weekly sections to be arranged. EXAM GROUP: 15, 16

Basic concepts of statistical inference from frequentist and Bayesian perspectives. Topics include maximum likelihood methods, confidence and Bayesian interval estimation, hypothesis testing,



least squares methods and categorical data analysis.

Prerequisite: Mathematics 19a and 19b or equivalent and Statistics 110.

Statistics 115. Introduction to Computational Biology and Bioinformatics

Catalog Number: 9776

Xiaole Shirley Liu (Public Health) and Jun S. Liu

Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

The course will cover basic technology platforms, data analysis problems and algorithms in computational biology. Topics include sequence alignment and search, high throughput experiments for gene expression, transcription factor binding and epigenetic profiling, motif finding, RNA/protein structure prediction, proteomics and genome-wide association studies. Computational algorithms covered include hidden Markov model, Gibbs sampler, clustering and classification methods.

Prerequisite: Good quantitative skills, strong interest in biology, willingness and diligence to learn programming.

Statistics 123. Applied Quantitative Finance on Wall Street

Catalog Number: 71785

Stephen James Blyth

Half course (spring term). Tu., Th., 2:30–4. EXAM GROUP: 16, 17

An introduction to modern financial derivative markets and the probabilistic and statistical techniques used to navigate them. Methodology will largely be motivated by real problems from the financial industry. Topics include: interest-rates; forward and futures contracts; option markets and probabilistic valuation methods; interest-rate derivatives and structured notes; electronic trading and performance evaluation. Designed for those seeking an understanding of the quantitative challenges on Wall Street and the probabilistic tool-kit developed to address them.

Prerequisite: Statistics 110 or equivalent.

Statistics 131. Time Series Analysis and Forecasting

Catalog Number: 8291

Tirthankar Dasgupta

Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16

An introduction to time series models and associated methods of data analysis and inference. Auto regressive (AR), moving average (MA), ARMA, and ARIMA processes, stationary and non-stationary processes, seasonal processes, auto-correlation and partial auto-correlation functions, identification of models, estimation of parameters, diagnostic checking of fitted models, forecasting, spectral analysis, and transfer function models.

Prerequisite: Statistics 111 and 139 or equivalent.

Statistics 135. Statistical Computing Software

Catalog Number: 3451

Steven Richard Finch

Half course (fall term). M., W., F., at 10. EXAM GROUP: 3

An introduction to major statistics packages used in academics and industry (SAS and R). Will discuss data entry and manipulation, implementing standard analyses and graphics, exploratory



data analysis, simulation-based methods, and new programming methods.

Note: Primarily for Statistics AM students.

Prerequisite: Statistics 110 or 139 (may be taken concurrently) or with permission of instructor.

Statistics 139. Statistical Sleuthing Through Linear Models

Catalog Number: 1450

Yoonjung Lee

Half course (fall term). Tu., Th., 11:30-1, and weekly sections to be arranged. EXAM GROUP: 13, 14

A serious introduction to statistical inference where linear models and related methods are used. Topics include the pros and cons of t-tools and their alternatives, multiple-group comparisons, linear regressions, model checking and refinement. Emphasis on statistical thinking and tools for real-life problems, application to current events whenever relevant.

Prerequisite: Statistics 100 or equivalent and Mathematics 19a and 19b or equivalent.

Statistics 140. Design of Experiments

Catalog Number: 7112

Tirthankar Dasgupta and Donald B. Rubin

Half course (spring term). M., W., 2:30-4. EXAM GROUP: 7, 8

Statistical designs for efficient experimentation in physical, chemical, biological, social and management sciences and in engineering. A systematic approach to explore input-output relationships by deliberately manipulating input variables. Topics include analysis of variance, completely randomized and randomized block designs, Latin square designs, balanced incomplete block designs, factorial designs, confounding in blocks, fractional replications, orthogonal arrays, and response surface designs. Each topic is motivated by a real-life example.

Prerequisite: Statistics 100 or equivalent and Mathematics 19a and 19b.

Statistics 149. Statistical Sleuthing through Generalized Linear Models

Catalog Number: 6617

Natesh S. Pillai

Half course (spring term). M., W., 1-2:30. EXAM GROUP: 6, 7

A sequel to Statistics 139, emphasizing common methods for analyzing categorical data. Topics include mixed effects model, contingency tables, log-linear models, logistic, Probit and Poisson regression, model selection, and model checking. Examples will be drawn from several fields, particularly from biology and social sciences.

Prerequisite: Statistics 139 or with permission of instructor.

[Statistics 160. Design and Analysis of Sample Surveys]

Catalog Number: 2993

Alan M. Zaslavsky (Medical School)

Half course (fall term). M., W., 2:30-5.

Methods for design and analysis of sample surveys. The toolkit of sample design features and their use in optimal design strategies. Sampling weights and variance estimation methods, including resampling methods. Brief overview of nonstatistical aspects of survey methodology such as survey administration and questionnaire design and validation (quantitative and qualitative). Additional topics: calibration estimators, variance estimation for complex surveys



and estimators, nonresponse, missing data, hierarchical models, and small-area estimation.

Note: Expected to be given in 2011–12.

Prerequisite: Statistics 111 or 139 or with permission of instructor.

[Statistics 170. Introduction to Quantitative Methods in Finance]

Catalog Number: 1202

Yoonjung Lee

Half course (spring term). Hours to be arranged.

Introduces stochastic analysis tools to be used as a basis for developing continuous-time asset pricing theory. Various quantitative methods widely used in the financial industry for valuing derivative products will be presented: binomial-tree valuation methods, extensions of the Black-Scholes option pricing formula, numerical techniques for solving partial differential equations, and Monte Carlo simulations.

Note: Expected to be given in 2011–12.

Prerequisite: Statistics 110 and 111 or equivalent.

Statistics 171. Introduction to Stochastic Processes

Catalog Number: 4180

S.C. Samuel Kou

Half course (spring term). Tu., Th., 10-11:30, and weekly sections to be arranged. EXAM

GROUP: 12, 13

An introductory course in stochastic processes. Topics include Markov chains, branching processes, Poisson processes, birth and death processes, Brownian motion, martingales, introduction to stochastic integrals, and their applications.

Prerequisite: Statistics 110 or equivalent.

Primarily for Graduates

Statistics 210. Probability Theory

Catalog Number: 2487

Joseph K. Blitzstein and Carl N. Morris

Half course (fall term). M., W., 2:30-4, and weekly sections to be arranged. EXAM GROUP: 7, 8

Random variables, measure, representations. Families of distributions: Multivariate Normal, conjugate, marginals, mixtures. Conditional distributions and expectation. Convergence, laws of large numbers, central limit theorems, and martingales.

Prerequisite: Statistics 110 or equivalent required; Statistics 111 or equivalent recommended.

Statistics 211. Statistical Inference

Catalog Number: 1946

Carl N. Morris and Joseph K. Blitzstein

Half course (spring term). M., W., 2:30-4, and weekly sections to be arranged. EXAM GROUP: 7, 8

Inference: frequency, Bayes, decision analysis, foundations. Likelihood, sufficiency, and information measures. Models: Normal, exponential families, multilevel, and non-parametric. Point, interval and set estimation; hypothesis tests. Computational strategies, large and moderate



sample approximations.

Prerequisite: Statistics 111 and 210 or equivalent.

Statistics 212. Advanced Stochastic Processes

Catalog Number: 7864

Natesh S. Pillai

Half course (fall term). Tu., Th., 2:30-4, and weekly sections to be arranged. EXAM GROUP: 16, 17

Brownian motion, Martingales, Central limit theorems and Stein's method, Poisson random measures, Approximations (Delta method, Edgeworth, etc.), Inequalities, Elements of Stochastic integrals.

Prerequisite: Statistics 210 or Statistics 211 or with permission of instructor.

Statistics 215. Introduction to Computational Biology and Bioinformatics

Catalog Number: 29169

Xiaole Shirley Liu (Public Health) and Jun S. Liu

Half course (spring term). Tu., Th., 11:30-1. EXAM GROUP: 13, 14

Meets with Statistics 115, but graduate students are required to do more coding, complete a research project and submit a written report during reading period in addition to completing all work assigned for Statistics 115.

Prerequisite: Good quantitative skills, strong interest in biology, good programming skills in C/C++, Java, Perl or Python.

Statistics 220. Bayesian Data Analysis

Catalog Number: 6270

Jun S. Liu

Half course (fall term). Tu., Th., 10-11:30. EXAM GROUP: 12, 13

Basic Bayesian models, followed by more complicated hierarchical and mixture models with nonstandard solutions. Includes methods for monitoring adequacy of models and examining sensitivity of models.

Note: Emphasis throughout term on drawing inferences via computer simulation rather than mathematical analysis.

Prerequisite: Statistics 110 and 111.

Statistics 221. Statistical Computing and Learning

Catalog Number: 5959

Edoardo Maria Airoidi

Half course (fall term). M., W., 1-2:30. EXAM GROUP: 6, 7

Computational methods commonly used in statistics: random number generation, optimization methods, numerical integration, Monte Carlo methods including Metropolis-Hastings and Gibbs samplers, approximate inference techniques including Expectation-Maximization algorithms, Laplace approximation and variational methods, data augmentation strategies.

Note: Computer programming exercises will apply the methods discussed in class.

Prerequisite: Linear algebra, Statistics 111, and knowledge of a computer programming language (R or Matlab) required; Statistics 220 recommended.



Statistics 230. Multivariate Statistical Analysis

Catalog Number: 5206

S.C. Samuel Kou

Half course (fall term). F., 2–5. EXAM GROUP: 7, 8, 9

Multivariate inference and data analysis. Advanced matrix theory and distributions, including Multivariate Normal, Wishart, and multilevel models. Supervised learning: multivariate regression, classification, and discriminant analysis. Unsupervised learning: dimension reduction, principal components, clustering, and factor analysis.

Prerequisite: Statistics 211 or equivalent.

Statistics 231. Time Series Analysis and Forecasting

Catalog Number: 7537

Tirthankar Dasgupta

Half course (fall term). Tu., Th., 1–2:30. EXAM GROUP: 15, 16

Meets with Statistics 131, but graduate students will be exposed to a more rigorous treatment of time series analysis.

Prerequisite: Statistics 111 and 139 or equivalent.

[Statistics 232 (formerly *Statistics 332). Topics in Missing Data]

Catalog Number: 9483

Donald B. Rubin

Half course (spring term). W., 10–12:30.

Note: Expected to be given in 2011–12.

Statistics 239. Statistical Sleuthing Through Linear Models

Catalog Number: 8433

Yoonjung Lee

Half course (fall term). Tu., Th., 11:30–1, and weekly sections to be arranged. EXAM GROUP: 13, 14

Meets with Statistics 139, but graduate students will be required to complete additional assignments designed to cover theoretical aspects of regression analysis.

Prerequisite: Statistics 100 or equivalent and Mathematics 19a and 19b or equivalent.

[Statistics 240 (formerly Statistics 233). Matched Sampling and Study Design]

Catalog Number: 4036

Donald B. Rubin and Tirthankar Dasgupta

Half course (fall term). W., 5–7 p.m.

This course provides an accessible introduction to the study of matched sampling and other design techniques in any field (e.g., economics, education, epidemiology, medicine, political science, etc.) conducting empirical research to evaluate the causal effects of interventions.

Note: Expected to be given in 2011–12.

Prerequisite: Statistics 110, Statistics 111, and Statistics 139.

[Statistics 245. Statistics and Litigation]

Catalog Number: 3488

Daniel James Greiner (Law School)



Half course (spring term). Tu., W., 5–7 p.m.

Students work in teams with law students to analyze data, prepare expert reports, and give testimony. Course teaches how to analyze data, present results to untrained but intelligent users, and defend conclusions.

Note: Expected to be given in 2011–12.

Prerequisite: A graduate course in data analysis, such as Statistics 220, Government 2001, or Economics 2120.

Statistics 249. Statistical Sleuthing Through Generalized Linear Models

Catalog Number: 3987

Natesh S. Pillai

Half course (spring term). M., W., 1–2:30. EXAM GROUP: 6, 7

Meets with Statistics 149, but graduate-level covers supplementary topics such as Bayesian analysis for generalized linear models and generalized mixed effect models. Requires extra homework and examination problems in addition to those for Statistics 149.

Prerequisite: Statistics 139, Statistics 220 or Statistics 221, or with permission of instructor.

[Statistics 260. Design and Analysis of Sample Surveys]

Catalog Number: 59588

Alan M. Zaslavsky (Medical School)

Half course (fall term). M., W., 2:30–5.

Meets with Statistics 160, but graduate students will have an extended class period and complete additional assignments for a more theoretical, in-depth treatment of topics.

Note: Expected to be given in 2011–12.

Prerequisite: Statistics 110, 111, and 139 or with permission of instructor.

[Statistics 270. Introduction to Quantitative Methods in Finance]

Catalog Number: 3518

Yoonjung Lee

Half course (spring term). Hours to be arranged.

Meets with Statistics 170, but graduate students will be exposed to a more rigorous treatment of stochastic calculus.

Note: Expected to be given in 2011–12.

Prerequisite: Statistics 110 and 171 or equivalent.

***Statistics 285r (formerly *Statistics 385). Statistical Machine Learning**

Catalog Number: 0512 Enrollment: Limited to 20.

Edoardo Maria Airoidi

Half course (spring term). Tu., 2:30–4. EXAM GROUP: 16, 17

Hands-on introduction to network statistics, with applications to social, biological and communication networks. Topics in sampling designs and inference. Modeling network evolution. Processes on networks. Critical literature review, in class-presentations, and final projects.

Note: Computer programming exercises will apply the methods discussed in class.

Prerequisite: Familiarity with estimation and inference techniques, and knowledge of a computer programming language (R or Matlab) required; Statistics 220 or 221 recommended.



Cross-listed Courses

[Biostatistics 244. Analysis of Failure Time Data](#)

[*Biostatistics 250. Probability Theory and Applications II](#)

[Economics 1127. Statistical Methods for Evaluating Causal Effects](#)

***Government 3009. Research Workshop in Applied Statistics**

Graduate Courses of Reading and Research

***Statistics 301. Special Reading and Research**

Catalog Number: 4474

Edoardo Maria Airoldi 6132, Joseph K. Blitzstein 5588, Tirthankar Dasgupta 5765, Arthur P. Dempster 2345 (spring term only), S.C. Samuel Kou 4054, Yoonjung Lee 5300, Jun S. Liu 3760, Xiao-Li Meng 4023 (on leave 2010-11), Carl N. Morris 2178, Donald B. Rubin 7966, Patrick J. Wolfe 5144 (on leave spring term), and Alan M. Zaslavsky (Medical School) 1927

***Statistics 302. Direction of Doctoral Dissertations**

Catalog Number: 3382

Edoardo Maria Airoldi 6132, Joseph K. Blitzstein 5588, Tirthankar Dasgupta 5765, Arthur P. Dempster 2345 (spring term only), S.C. Samuel Kou 4054, Yoonjung Lee 5300, Jun S. Liu 3760, Xiao-Li Meng 4023 (on leave 2010-11), Carl N. Morris 2178, Bernard Rosner 4018, Donald B. Rubin 7966, Patrick J. Wolfe 5144 (on leave spring term), and Alan M. Zaslavsky (Medical School) 1927

***Statistics 303hf. The Art and Practice of Teaching Statistics**

Catalog Number: 3545

Joseph K. Blitzstein 5588 and Yves Rene Chretien 6545

Half course (throughout the year). M., 10–12.

Required of all first-year doctoral students in Statistics.

[*Statistics 310hfr. Topics in Astrostatistics]

Catalog Number: 2105

Xiao-Li Meng 4023 (on leave 2010-11)

Half course (throughout the year). Tu., 11:30–1.

Note: Expected to be given in 2011–12.

***Statistics 311. Monte Carlo Methods in Scientific Computing**

Catalog Number: 0826

Jun S. Liu 3760

Half course (fall term). Hours to be arranged.

Prerequisite: Statistics 220 or equivalent.

***Statistics 312. Estimation Problems for Stochastic Processes - (New Course)**

Catalog Number: 86589

Natesh S. Pillai 6729

Half course (spring term). Hours to be arranged.



This seminar style course will focus on inference problems for stochastic processes and statistical modeling. We will discuss a few key papers in this area, chosen from different fields of applications. Participants will be encouraged to develop their own research problems in this active area of current research.

***Statistics 321. Stochastic Modeling and Bayesian Inference**

Catalog Number: 4060

S.C. Samuel Kou 4054

Half course (spring term). Th., 4:30–6.

Stochastic processes and their applications in biological, chemical and financial modeling. Bayesian inference about stochastic models based on the Monte Carlo sampling approach.

[*Statistics 324r. Parametric Statistical Inference and Modeling]

Catalog Number: 3366

Carl N. Morris 2178

Half course (spring term). Th., 3–5.

Theory of multi-level parametric models, including hidden Markov models, and applications likely to include biostatistics, health services, education, and sports.

Note: Expected to be given in 2011–12.

[*Statistics 340. Random Network Models]

Catalog Number: 1650

Joseph K. Blitzstein 5588

Half course (spring term). Hours to be arranged.

Random graph models for biological, social, and information networks, including fixed degree, exponential, power law, small world, and geometric random graphs. Estimation and sampling methods for network data.

Note: Expected to be given in 2011–12.

***Statistics 341. Advanced Topics in Experimental Design**

Catalog Number: 9827

Tirthankar Dasgupta 5765

Half course (fall term). Th., 4–6.

[*Statistics 370. Topics in Empirical Finance]

Catalog Number: 3593

Yoonjung Lee 5300

Half course (spring term). Hours to be arranged.

Exposes students to a variety of topics in Empirical Finance, including high frequency data analysis, high-dimensional volatility estimation, continuous-time stochastic modeling, and non-linear filtering.

Note: Expected to be given in 2011–12.

***Statistics 392hf. Research Topics in Missing Data, Matching and Causality - (New Course)**

Catalog Number: 44383

Donald B. Rubin 7966



Half course (throughout the year). Fall: F., 10–12.

Students will make at least one presentation on current research in applied or theoretical statistics. All registered students are expected to participate by offering commentary/suggestions during presentations. This is a requirement to obtain credit.

***Statistics 399hf. Problem Solving in Statistics**

Catalog Number: 1035

Carl N. Morris 2178

Half course (throughout the year). W., 4:30–6.

Aimed principally at helping Statistics PhD students beyond their first year transition through the qualifying exams into research.

Stem Cell and Regenerative Biology

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Department of Stem Cell and Regenerative Biology (FAS, HMS)

Douglas A. Melton, Thomas Dudley Cabot Professor of the Natural Sciences (*Co-Chair and Co-Head Tutor*)

David T. Scadden, Professor of Stem Cell & Regenerative Biology and Gerald and Darlene Jordan Professor of Medicine (*Co-Chair*)

William J. Anderson, Lecturer on Stem Cell & Regenerative Biology

Paola Arlotta, Assistant Professor of Stem Cell and Regenerative Biology

Fernando D. Camargo, Assistant Professor of Stem Cell and Regenerative Biology

Kenneth R. Chien, Professor of Stem Cell & Regenerative Biology; Charles Addison and Elizabeth Ann Saunders Professor of Medicine, Harvard Medical School

Chad A. Cowan, Assistant Professor of Stem Cell and Regenerative Biology

Kevin C. Eggan, Associate Professor of Stem Cell & Regenerative Biology (*Co-Head Tutor*)

Konrad Hochedlinger, Associate Professor of Stem Cell & Regenerative Biology

Jeffrey D. Macklis, Professor of Stem Cell & Regenerative Biology and Professor of Surgery and Neurology, Harvard Medical School

Andrew P. McMahon, Frank B. Baird Jr. Professor of Science in the Department of Stem Cell and Regenerative Biology

Alexander Meissner, Assistant Professor of Stem Cell and Regenerative Biology

Derrick J. Rossi, Assistant Professor of Pathology (*Medical School*)

Lee L. Rubin, Professor of Stem Cell & Regenerative Biology

Jack L. Strominger, Higgins Professor of Biochemistry in the Department of Stem Cell and Regenerative Biology



Gregory L. Verdine, Erving Professor of Chemistry in the Department of Stem Cell & Regenerative Biology

Amy J. Wagers, Associate Professor of Stem Cell & Regenerative Biology

Qiao Zhou, Assistant Professor of Stem Cell & Regenerative Biology

Other Faculty Offering Instruction in Stem Cell and Regenerative Biology

George Q. Daley, Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)

Primarily for Undergraduates

SCRB 10. Human Developmental and Regenerative Biology

Catalog Number: 96716

Douglas A. Melton, Kevin C. Eggan, and Andrew P. McMahon

Half course (fall term). M., W., F., at 1, and a weekly section to be arranged. EXAM GROUP: 6

Fundamental concepts in developmental biology will be presented within the framework of the developing and regenerating mammal. Where possible, lectures will focus on humans.

Note: This course, when taken for a letter grade, meets the General Education requirement for Science of Living Systems or the Core area requirement for Science B.

Prerequisite: Concurrent enrollment in Life and Physical Sciences A or Life Sciences 1a.

***SCRB 90. Classic Experiments in Developmental Biology - (New Course)**

Catalog Number: 15214 Enrollment: Limited to 20.

Douglas A. Melton

Half course (spring term). Tu., 7–9 p.m. EXAM GROUP: 18

This course will introduce students to classic experiments in developmental biology. We will explore the historical background, experimental design, and results of a handful of experiments that have defined the field of developmental biology and changed our understanding of the discipline. Students will read primary literature and, in turn, present the conclusions in written and oral formats.

Prerequisite: SCRB 10 or permission of the instructor.

***SCRB 91r. Introduction to Research**

Catalog Number: 75408

William J. Anderson and members of the Department

Half course (fall term; repeated spring term). Hours to be arranged.

Laboratory research in topics related to the Human Developmental and Regenerative Biology Concentration under the direction of, or approved by, members of the Department of Stem Cell and Regenerative Biology, Principal Faculty of the Harvard Stem Cell Institute, or others with permission. A paper must be submitted to the laboratory sponsor and to the HDRB Concentration Office for review by the Course Director and Head Tutors.

Note: Limited to Human Developmental and Regenerative Biology Concentrators; written permission of the laboratory sponsor must be submitted to the HDRB Concentration Office prior to enrolling in the course. This introductory research course is intended to prepare students for



SCRB 99 and may ordinarily be repeated no more than once. Ordinarily may not be taken as a fifth course. Laboratory safety session required.

***SCRB 99. Laboratory Research for Honors Thesis**

Catalog Number: 23886

William J. Anderson and members of the Department

Full course. Hours to be arranged.

For honors candidates writing a thesis in Human Developmental and Regenerative Biology.

Note: Ordinarily may not be taken as a fifth course. Laboratory safety session required.

Prerequisite: Students intending to enroll in the fall are required to submit a written proposal to the Course Director. Students may enter the course at midyear only with the permission of the Course Director. The thesis proposal must be approved by the Course Director and Head Tutors prior to enrolling in SCRB 99.

Cross-listed Courses

Engineering Sciences 53. Quantitative Physiology as a Basis for Bioengineering

[Life Sciences 60 (formerly MCB 60). Ethics, Biotechnology, and the Future of Human Nature]

For Undergraduate and Graduates

SCRB 125 (formerly MCB 125). Nuclear Reprogramming and Developmental Plasticity

Catalog Number: 5481

Konrad Hochedlinger, William J. Anderson, and David T. Scadden

Half course (spring term). M., W., 1–2:30. EXAM GROUP: 6, 7

This course will focus on the biology of organismal cloning, cellular reprogramming, and developmental plasticity. The role that stem cells play in these processes and the genetic and molecular circuitry that underlie developmental potency and reprogramming will be discussed.

Prerequisite: Life and Physical Sciences A or Life Sciences 1a; Life Sciences 1b; SCRB 10 or MCB 54, or permission of the instructor.

SCRB 140. Developmental and Molecular Basis of Growth and Regeneration - (New Course)

Catalog Number: 73523

Fernando D. Camargo

Half course (spring term). M., W., 2:30–4. EXAM GROUP: 7, 8

This course will focus on the biology of organ growth and regeneration from a developmental perspective. How is the size and symmetry of our organs set? How does a regenerating animal sense that something is missing and eventually stop the regenerative process when tissues reform? We will learn about conserved developmental pathways that are necessary for adult regeneration and discuss how the aberrant activation of these pathways can lead to overgrowth disorders such as cancer.

Prerequisite: Life and Physical Sciences A or Life Sciences 1a; Life Sciences 1b; SCRB 10 or MCB 54 or permission of the instructor.

**SCRB 150 (formerly MCB 150). Human Genetics: Mining Our Genomes for an Understanding of Human Variation and Disease**

Catalog Number: 5703

*Kevin C. Eggan**Half course (fall term). M., 3–6. EXAM GROUP: 8, 9*

The sequencing of the human genome has revealed the full extent of genetic variation that exists within us as a species. This genetic diversity underlies much of our physical variation as well as our differences in responsiveness to disease stimuli and their treatments. We will explore these and other ramifications of human genetic diversity by applying classical and contemporary genetic tools to the identification of specific genes and pathways that functionally underlie our variable biology.

Prerequisite: Life and Physical Sciences A or Life Sciences 1a (or equivalent), Life Sciences 1b (or equivalent), and SCRБ 10 or MCB 52.

SCRБ 155. Epigenetic Regulation in Development

Catalog Number: 63211

*Alexander Meissner**Half course (spring term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14*

Cloning of Dolly the sheep suggests that all of our cells have exactly the same genes as a fertilized egg. If this is true, then how is it that each of our cells reads out those genes differently? This course will explain the developmental events that regulate the expression of genes, as well as how this developmental expression is established and maintained.

Prerequisite: Life and Physical Sciences A or Life Sciences 1a; Life Sciences 1b; MCB 52; SCRБ 10 or permission of the instructor.

SCRБ 157. The RNA World - (New Course)

Catalog Number: 57449

*John L. Rinn (Medical School)**Half course (spring term). Tu., Th., 1–2:30.*

This course will introduce classic experiments and examples of functional RNA genes that comprise the ever-emerging RNA world. We will explore diverse classes of RNA genes and their biochemical mechanisms that have defined field, including overviews of relevant technologies leading to these principal findings. Lecture topics will be followed by students reading and presenting related primary literature. Collectively this course will provide an opportunity to explore the wide spectrum of cellular processes involving RNA molecules.

Prerequisite: Life Sciences 1a or equivalent; Life Sciences 1b; SCRБ 10; MCB 52 or permission of the instructor.

***SCRБ 160. Experimental Embryology: From Stem Cells to Tissues and Back Again**

Catalog Number: 45194 Enrollment: Limited to 16.

*Paola Arlotta and Konrad Hochedlinger**Half course (fall term). M., 2–6. EXAM GROUP: 7, 8, 9*

This advanced laboratory course will apply experimental approaches and surgical techniques to illustrate critical developmental events during mouse embryogenesis. Particular emphasis will be placed on experiments covering the following topics: fertilization and pre-implantation embryology; reprogramming of adult somatic cells into embryonic stem cells; early organ



development; and surgical manipulation of late stage mouse embryos in utero.

Prerequisite: Life and Physical Sciences A or Life Sciences 1a; Life Sciences 1b; SCRB 10 or MCB 118 or MCB 54.

***SCRB 162. Experimental Regenerative Biology - (New Course)**

Catalog Number: 37108

Qiao Zhou

Half course (spring term). M., 2–6. EXAM GROUP: 7, 8, 9

This laboratory course will allow advanced undergraduate students to explore classical and modern experimental models of regeneration, and through experimentation, understand the important concepts and key challenges of the regenerative biology field. We will focus in particular on the regeneration of complex tissues and entire organ systems using both invertebrate and vertebrate models, including the planarian worm, the salamander, and the mouse.

Prerequisite: Life and Physical Sciences A or Life Sciences 1a; Life Sciences 1b; SCRB 10 or MCB 54 or permission of the instructor.

***SCRB 165. Directed Differentiation of Stem Cells**

Catalog Number: 9605 Enrollment: Limited to 16.

Chad A. Cowan

Half course (spring term). Tu., at 3; Th., 1–4. EXAM GROUP: 15, 16, 17

This practical laboratory course will investigate the fundamental biology of human embryonic stem cells and their remarkable capacity to differentiate into all cells of the body. The underlying developmental pathways that guide embryonic stem cell development into these differentiated cell types will be explored. A chemical biology approach will also be used to probe properties of normal and disease model cells derived from embryonic stem cells.

Prerequisite: Life and Physical Sciences A or Life Sciences 1a, or permission of instructor.

***SCRB 167. Stem Cells and Regeneration in the Pathobiology and Treatment of Human Disease**

Catalog Number: 9556 Enrollment: Limited to 14. For advanced students only, seniors and qualified juniors.

George Q. Daley (Medical School) and members of the Department

Half course (spring term). Th., 2-4 and a one-hour section meeting to be arranged.

Stem cells are the basis for tissue maintenance and repair, thus, are essential elements of normal organ and tissue physiology. Stem cells are also targets for disease processes and through transplantation are important therapeutic agents. This course will allow advanced undergraduates to explore how stem cells and tissue regeneration impact human disease pathogenesis and how stem cells might be exploited to advance new therapies for disease.

Note: Course to be offered at Harvard Medical School campus in Longwood.

Prerequisite: Life and Physical Sciences A or Life Sciences 1a; Life Sciences 1b; SCRB 10; MCB 52 or MCB 54.

SCRB 170. Heart Stem Cell Therapeutics: A Case Study for Regenerative Medicine - (New Course)

Catalog Number: 22001



Kenneth R. Chien

Half course (fall term). M., W., 1–2:30.

Heart stem cell therapeutics is a paradigm for regenerative medicine. Multipotent "master" heart progenitors are revolutionizing our understanding of human cardiogenesis and its relationship to disease. Issues such as delivery, grafting, survival, rejection, scalability, tissue engineering, unwanted side effects, and imaging have all arisen when considering cell transplantation therapies. This course will examine the prospects and problems of heart stem cell therapeutics from multiple perspectives, e.g., scientific, medical, philanthropic, drug discovery/safety, governmental, ethical, and financial.

Prerequisite: Life and Physical Sciences A or Life Sciences 1a; Life Sciences 1b; SCRB 10 or MCB 54 or permission of the instructor.

***SCRB 178 (formerly MCB 268). Molecular Immunology: Seminar**

Catalog Number: 2196 Enrollment: Limited to 16.

Jack L. Strominger

Half course (spring term). M., Th., 4–6. EXAM GROUP: 9, 18

One session each week is a lecture on current topics in immunology. At the second session, three papers are read from the current literature on that topic (including topics in hematopoietic stem cells, immune cell differentiation, autoimmunity, HIV, cancer, and transplantation), each presented by a student in 30-45 minutes. Course work: reading of papers, seminar presentations, and class participation.

Prerequisite: MCB 169 or permission of instructor required for undergraduates only.

SCRB 180. Repair and Regeneration in the Mammalian Brain

Catalog Number: 60301

Jeffrey D. Macklis and Paola Arlotta

Half course (fall term). Tu., Th., 2:30-4, and a weekly section to be arranged. EXAM GROUP: 16, 17

This course will discuss cellular and molecular mechanisms of regeneration and repair in the mammalian central nervous system (CNS). We will: compare and contrast aspects of neural development with adult neural plasticity; discuss limitations to neuronal regeneration in the mature mammalian CNS following degeneration or injury; examine CNS regeneration approaches directed at overcoming intrinsic limitations; and explore developmental controls and gene manipulation to promote neurogenesis, axonal regeneration, and directed differentiation in the diseased adult brain.

Prerequisite: Life and Physical Sciences A or Life Sciences 1a; Life Sciences 1b; MCB 80 or permission of the instructor.

SCRB 190. Understanding Aging: Degeneration, Regeneration, and the Scientific Search for the Fountain of Youth

Catalog Number: 1207

Amy J. Wagers and Lee L. Rubin

Half course (fall term). Tu., Th., 11:30–1. EXAM GROUP: 13, 14

This lecture and discussion course will explore the fundamental molecular and cellular mechanisms that govern organismal aging and contemporary strategies to delay or reverse this process.



Prerequisite: Life and Physical Sciences A or Life Sciences 1a; Life Sciences 1b; SCRB 10 or MCB 54.

Cross-listed Courses

[*Chemistry 185 \(formerly *Chemistry 285\). Human Disease](#)
[*Engineering Sciences 122. Cellular Engineering](#)
[Engineering Sciences 130. Tissue Engineering](#)
[Engineering Sciences 145. Physiological Systems Analysis](#)
[Government 1093. Ethics, Biotechnology, and the Future of Human Nature]
[*Life Sciences 100r \(formerly *MCB 100r\). Experimental Research in the Life Sciences](#)
[*MCB 118. From Egg to Embryo to Organ](#)
[MCB 185. Human Disease](#)
[MCB 192. Principles of Drug Discovery and Development]

Primarily for Graduates

Cross-listed Courses

[*Engineering Sciences 211. Cardiac Biophysics](#)
[*Engineering Sciences 222. Advanced Cellular Engineering](#)
[Engineering Sciences 230 \(formerly Engineering Sciences 223\). Advanced Tissue Engineering](#)
[MCB 234. Cellular Metabolism and Human Disease](#)
[MCB 235. Principles of Human Disease: Physiology and Pharmacology](#)

Graduate Courses of Reading and Research

***SCRB 302 (formerly *MCB 302). Mechanisms of Epigenetic Reprogramming**

Catalog Number: 6640

Kevin C. Eggan 5373

***SCRB 382 (formerly *MCB 382). Molecular Immunology**

Catalog Number: 5515

Jack L. Strominger 1193

***SCRB 399 (formerly *MCB 399). Vertebrate Developmental Biology**

Catalog Number: 45477

Douglas A. Melton 7232

Cross-listed Courses

***BCMP 366. Stem Cells in Disease and Development**
***BCMP 384. Embryonic stem cells, Nuclear Transfer, Cancer, Reprogramming**
***Cell Biology 351. Cardiovascular Stem Cells in Development and Disease**
***Chemistry 331. Approaches Toward Understanding and Treating Human Disease**



- *Developmental & Regenerative Biology 312. Epigenetic Modifications and Cellular Identity**
- *Developmental & Regenerative Biology 314. Molecular and Developmental Neurobiology**
- *Developmental & Regenerative Biology 319. Adult mammalian regeneration - (New Course)**
- *Genetics 336. Developmental Biology of Hematopoiesis**
- *Genetics 387. Stem Cells and Developmental Biology**
- *Immunology 360. Hematopoietic Stem Cells and their Niche**
- *MCB 364. Vertebrate Development**
- *Neurobiology 367. Neo-Cortical Development and Cellular Transplantation**
- *Pathology 371. Biology and Function of Tissue-Specific Stem Cells**

Systems Biology

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Committee on Higher Degrees in Systems Biology

Timothy J. Mitchison, Hasib Sabbagh Professor of Systems Biology (*Medical School*) (*Co-Chair*)

Andrew W. Murray, Herchel Smith Professor of Molecular Genetics (*Co-Chair*)

Michael P. Brenner, Glover Professor of Applied Mathematics and Applied Physics, Harvard College Professor, Area Dean for Applied Mathematics

Marc W. Kirschner, John Franklin Enders University Professor of Systems Biology (*Medical School*)

Erin K. O'Shea, Professor of Molecular and Cellular Biology and of Chemistry and Chemical Biology

Pamela A. Silver, Professor of Systems Biology (*Medical School*) (*Director of Graduate Studies*)

Other Faculty Offering Instruction in Systems Biology

Edoardo Maria Airoldi, Assistant Professor of Statistics

Debra T. Auguste, Assistant Professor of Biomedical Engineering on the Gordon McKay Endowment

Martha L. Bulyk, Associate Professor of Pathology (*Medical School*)

Lewis C. Cantley, Professor of Systems Biology (*Medical School*)

George M. Church, Professor of Genetics (*Medical School*)

Philippe Cluzel, Professor of Molecular and Cellular Biology and Gordon McKay Professor of Applied Physics



Vladimir Denic, Assistant Professor of Molecular and Cellular Biology
Angela DePace, Assistant Professor of Systems Biology (*Medical School*)
Michael Manish Desai, Assistant Professor of Organismic and Evolutionary Biology and of Physics
Catherine Dulac, Higgins Professor of Molecular and Cellular Biology
Walter Fontana, Professor of Systems Biology (*Medical School*)
Melissa Franklin, Mallinckrodt Professor of Physics
John M. Higgins, Assistant Professor of Systems Biology (*Medical School*)
Roy Kishony, Associate Professor of Systems Biology (*Medical School*)
Galit Lahav, Assistant Professor of Systems Biology (*Medical School*)
Richard M. Losick, Maria Moors Cabot Professor of Biology
L. Mahadevan, Lola England de Valpine Professor of Applied Mathematics and of Organismic and Evolutionary Biology (*on leave 2010-11*)
Christopher Marx, Associate Professor of Organismic and Evolutionary Biology
Sean G. Megason, Assistant Professor of Systems Biology (*Medical School*)
Vamsi K. Mootha, Associate Professor of Systems Biology (*Medical School*)
Radhika Nagpal, Thomas D. Cabot Associate Professor of Computer Science
Daniel Joseph Needleman, Assistant Professor of Applied Physics
Martin A. Nowak, Professor of Mathematics and of Biology (*on leave fall term*)
Kevin K. Parker, Thomas D. Cabot Associate Professor of Applied Science
Johan M. Paulsson, Associate Professor of Systems Biology (*Medical School*)
Sharad Ramanathan, Assistant Professor of Molecular and Cellular Biology
Pardis Sabeti, Assistant Professor of Organismic and Evolutionary Biology
Alan Saghatelian, Associate Professor of Chemistry and Chemical Biology
Alexander F. Schier, Professor of Molecular and Cellular Biology
Brian Seed, Professor of Genetics (*Medical School*)
Jagesh V. Shah, Assistant Professor of Systems Biology (*Medical School*)
William Shih, Associate Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)
Peter K. Sorger, Professor of Systems Biology (*Medical School*)
Michael Springer, Assistant Professor of Systems Biology (*Medical School*)
Jack Szostak, Professor of Genetics (*Medical School*)
Antoine van Oijen, Assistant Professor of Biological Chemistry and Molecular Pharmacology (*Medical School*)
Ralph Weissleder, Professor of Systems Biology (*Medical School*)
David A. Weitz, Mallinckrodt Professor of Physics and of Applied Physics
Xiaoliang Sunney Xie, Mallinckrodt Professor of Chemistry and Chemical Biology
Peng Yin, Assistant Professor of Systems Biology (*Medical School*)
Xiaowei Zhuang, Professor of Chemistry and Chemical Biology and of Physics

Systems Biology students should consult course listings from the departments of Biological Sciences, Biophysics, Chemistry, the School of Engineering and Applied Sciences (Applied Mathematics, Applied Physics, Computer Sciences, Engineering Sciences), and the School of Medical Sciences.

Cross-Listed Courses for Undergraduates and Graduates



[Applied Mathematics 115. Mathematical Modeling](#)

[Applied Mathematics 147. Nonlinear Dynamical Systems](#)

[Biophysics 170. Quantitative Genomics](#)

[\[Chemistry 60. Foundations of Physical Chemistry\]](#)

[Chemistry 161. Statistical Thermodynamics](#)

[Chemistry 163. Frontiers in Biophysics](#)

[Computer Science 181. Intelligent Machines: Perception, Learning, and Uncertainty](#)

[Engineering Sciences 145. Physiological Systems Analysis](#)

[Engineering Sciences 156. Signals and Systems](#)

[\[Mathematics 153. Mathematical Biology-Evolutionary Dynamics\]](#)

[MCB 111. Mathematics in Biology](#)

[\[*MCB 173. Optical Imaging in the Biological Sciences\]](#)

[\[MCB 195. Foundations of Systems Biology and Biological Engineering\]](#)

[OEB 181. Systematics](#)

[OEB 189. Cell Growth and Form](#)

[OEB 192. Microbial Evolution](#)

[Physics 181. Statistical Mechanics and Thermodynamics](#)

Primarily for Graduates

[Systems Biology 200. Dynamic and Stochastic Processes in Cells](#)

Catalog Number: 8701

Johan M. Paulsson (Medical School), Jeremy M. Gunawardena (Medical School), and Peter K. Sorger (Medical School)

Half course (fall term). Tu., Th., 10-11:30, and a weekly section to be arranged. EXAM GROUP: 12, 13

Rigorous introduction to (i) dynamical systems theory as a tool to understand molecular and cellular biology (ii) stochastic processes in single cells, using tools from statistical physics and information theory.

Note: Students planning to take both quarter courses must enroll in this as a half course on their study card as SysBio200 for now and in the future. Students who take one half of this quarter can NOT ever take the other half for credit.

Prerequisite: College-level calculus; simultaneous enrollment in SB202 is recommended.

[Systems Biology 201. Principles of Animal Development from a Systems Perspective](#)

Catalog Number: 5148

Sean G. Megason (Medical School), Angela DePace (Medical School), and Marc W. Kirschner (Medical School)

Half course (spring term). Tu., Th., 2-3:30. EXAM GROUP: 16, 17

Intensive and critical analysis of systems approaches to circuits and principles controlling pattern formation and morphogenesis in animals. Students develop their own ideas and present them through mentored "chalk talks" and other interactive activities.

[Systems Biology 202 \(formerly Systems Biology 203\). Modeling and Measurement in Cell Biology](#)

Catalog Number: 83523



Peter K. Sorger (Medical School) and Gaudenz Danuser (Medical School)

Half course (fall term). M., W., F., 10:30–12. EXAM GROUP: 3, 4

This course introduces rigorous experimental, statistical and computational approaches to the biochemistry of signal transduction and force-generating processes in mammalian cells with application to human disease and mechanisms of drug action.

Prerequisite: College-level calculus; simultaneous enrollment in SB200 is recommended.

Systems Biology 205 (formerly Systems Biology 207). Synthetic Biology

Catalog Number: 30087

Pamela A. Silver (Medical School) and Jack Szostak (Medical School)

Half course (spring term). Tu., Th., 4–5:30. EXAM GROUP: 18

A course covering the design and synthesis of new genetic circuits, construction of novel genomes and the chemical basis for building self-replicating systems.

Note: Weekly lectures with discussion sections and outside speakers.

Cross-Listed Courses Primarily for Graduates

BCMP 200. Molecular Biology

[BCMP 201. Proteins: Structure, Function and Catalysis]

BCMP 207. Molecular Approaches to Drug Action, Discovery, and Design

[Biophysics 204. Structural Biology From Molecules to Cells]

Biophysics 205. Computational and Functional Genomics

Biophysics 242r. Special Topics in Biophysics

Cell Biology 201. Molecular Biology of the Cell

Chemical Biology 207 (formerly Chemical Biology 2100). Molecular Approaches to Drug Action, Discovery, and Design

***Engineering Sciences 222. Advanced Cellular Engineering**

Genetics 201. Principles of Genetics

Mathematics 243 (formerly Mathematics 234). Evolutionary Dynamics

MCB 212. Topics in Biophysics

Graduate Courses of Reading and Research

***Systems Biology 300hf. Introduction to Systems Biology Research**

Catalog Number: 4103

Timothy J. Mitchison (Medical School) 3713

Half course (throughout the year). M., 6–7:30 p.m.

Introductory lectures introduce the research areas of current program faculty in systems biology.

***Systems Biology 350. Systems Biology Research**

Catalog Number: 8370

Timothy J. Mitchison (Medical School) 3713 and members of the Committee

Upper level Systems Biology students register for this course when they permanently join a lab. Students should register under the supervising PI.



***Systems Biology 370. Advanced Topics in Systems Biology: Reading Seminar - (New Course)**

Catalog Number: 43182

Timothy J. Mitchison (Medical School) 3713

A series of reading and discussion seminars, each running for a half term (7 weeks). Two seminars, which can be taken in different terms, are required for credit.

***Systems Biology 399. Introduction to Systems Biology: Rotations**

Catalog Number: 5863

Timothy J. Mitchison (Medical School) 3713

Half course (fall term; repeated spring term). Hours to be arranged.

The course will introduce the research areas of faculty performing research in systems biology. Intended for Systems Biology lab rotations.

Cross-Listed Graduate Courses of Reading and Research

***Computer Science 307,308. Biologically-Inspired Multi-Agent Systems, Distributed Systems, and Computational Biology**

Quarter Courses for Graduate Students Only

***Systems Biology 301qc. Studying Evolution through Models and Experiments - (New Course)**

Catalog Number: 31854

Roy Kishony (Medical School)

Quarter course (spring term). M. through F., 10–11:30.

Intensive January course covering theoretical foundations in population genetics, genetic drift versus selection, identifying selection in genomes, advances in laboratory evolution experiments, with applications to key questions in systems biology and evolution.

***Systems Biology 302qc. Quantitative Human Physiology - (New Course)**

Catalog Number: 14042

Vamsi K. Mootha (Medical School), John M. Higgins (Medical School), and Timothy J. Mitchison (Medical School)

Quarter course (spring term). Tu., Th., 10–11:30.

Critical discussion of research literature focusing on quantitative approaches to human disease, physiology, and therapeutics. Topics include cellular energetics and metabolism, red blood cell homeostasis and anemia, cell growth and cancer, and pharmacokinetics and pharmacodynamics.



Ukrainian Studies

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Committee on Ukrainian Studies

Michael S. Flier, Oleksandr Potebnja Professor of Ukrainian Philology (*Chair*)
Patricia R. Chaput, Professor of the Practice of Slavic Languages
Timothy J. Colton, Morris and Anna Feldberg Professor of Government and Russian Studies
Grzegorz Ekiert, Professor of Government
George G. Grabowicz, Dmytro Cyzevs'kyj Professor of Ukrainian Literature
Terry D. Martin, George F. Baker III Professor of Russian Studies
Serhii Plokhii, Mykhailo S. Hrushevs'kyi Professor of Ukrainian History

The Standing Committee on Ukrainian Studies oversees the systematic study in Ukrainian fields throughout the departments of the Faculty of Arts and Sciences. Students wishing to obtain a doctorate in a particular discipline of Ukrainian Studies, such as language, literature, history, or politics should first fulfill all the requirements of the department of their scholarly discipline (departments of Slavic Languages and Literatures, Linguistics, History, or Government): they may then proceed to the fulfillment of specific qualifications in the Ukrainian aspect of their disciplines under the supervision of the Committee's faculty. Graduate students may also focus on Ukrainian Studies in the Degree of Master of Arts in Regional Studies - Russia, Eastern Europe, and Central Asia. The weekly Seminar in Ukrainian Studies serves as an interdisciplinary introduction to all aspects of Ukrainian disciplines; it is open for enrollment to graduate students, and with permission to undergraduates.

The Ukrainian Research Institute sponsors programs, events and activities of interest to both students and specialists in Ukrainian Studies. Specific questions concerning the program of Ukrainian Studies at Harvard may be addressed to the Programs Administrator of the Ukrainian Research Institute at 34 Kirkland Street, Cambridge, MA 02138.

Primarily for Graduates

***Ukrainian 200. Ukrainian Studies: Seminar**

Catalog Number: 7927

Michael S. Flier, George G. Grabowicz, Serhii Plokhii and staff

Full course. M., 4–6. EXAM GROUP: 9

Interdisciplinary seminar in Ukrainian studies with broad regional and comparative perspective. Faculty and invited scholars discuss a variety of topics in the humanities and social sciences.



Background readings and follow-up discussions help students put the specific lectures in broader context. Students also conduct an individually tailored reading and research project under the guidance of a faculty advisor and in consultation with other resident specialists.

Courses of Interest

[Government 1203. Capitalism and Democracy in Central and Eastern Europe](#)

[Government 2213. Comparative Politics of Post-Socialism]

[*History 72f (formerly *History 1529). East European Identities: Russia and Ukraine]

[*History 72i. Cities and the Making of Modern Russia]

[*History 79f. Empire and Nation in Russia and China](#)

[*History 82f. The Origins of the Cold War: The Yalta Conference \(1945\)](#)

[*History 82g. The Black Sea World]

[*History 82h (formerly *History 1532). Everyday Life in the Soviet Union]

[History 1114 (formerly History 1514). Early Modern Eastern Europe (1450-1795)]

[History 1270. Frontiers of Europe: Ukraine since 1500](#)

[History 1280 (formerly History 1531). History of the Soviet Union, 1917-1991]

[History 1281. The End of Communism]

[History 1282. The Russian Revolution: An International History - \(New Course\)](#)

[History 1285. Russia and the Great Eurasian Steppe]

[History 1290. The History of the Russian Empire]

[History 1970. Cold War Summits: Conference Course - \(New Course\)](#)

[*History 2260 (formerly *History 2441). Central Europe: Seminar]

[History 2271 \(formerly History 2532\). The Soviet Union: Proseminar](#)

[History 2272 \(formerly History 2531\). The Soviet Union: Seminar](#)

[History 2285. Imperial Russia: Proseminar]

[Linguistics 250. Old Church Slavonic](#)

[Linguistics 252. Comparative Slavic Linguistics]

[Literature 160 (formerly Comparative Literature 160). Literary Forgeries and Mystifications]

[Literature 164. The 20th-Century Post-Realist Novel in Eastern Europe: Conference Course](#)

[Slavic Ga. Beginning Ukrainian I](#)

[Slavic Gb. Beginning Ukrainian II](#)

[*Slavic Gr. Supervised Readings in Intermediate/Advanced Ukrainian](#)

[Slavic 166. Russian-Ukrainian Literary Relations in the 19th Century: Conference Course]

[Slavic 169. 20th-Century Ukraine: Literature, Arts, and Society](#)

[Slavic 201. Introduction to East Slavic Languages](#)

[Slavic 223. 19th-Century Ukrainian Poetry]

[Slavic 224. Pavlo Tychyna and His Age]

[Slavic 280r. Slavic Culture: Seminar]

[Slavic 290. 19th-Century Ukrainian Prose: Seminar - \(New Course\)](#)

[Slavic 291. Problems in the History of Early Ukrainian Literature]

[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

D. N. Rodowick, William R. Kenan, Jr. Professor of Visual and Environmental Studies (*Chair and Director of Graduate Studies*)

Dominique Bluher, Lecturer on Visual and Environmental Studies

Giuliana Bruno, Professor of Visual and Environmental Studies (*on leave 2010-11*)

Katarina Burin, Visiting Lecturer on Visual and Environmental Studies

Dominique Cabrera, Visiting Lecturer on Visual and Environmental Studies

Lucien G. Castaing-Taylor, John L. Loeb Associate Professor of the Humanities and of the Social Sciences

Tom Conley, Abbott Lawrence Lowell Professor of Romance Languages and Literatures and of Visual and Environmental Studies

Harun Faroghi, Visiting Lecturer on Visual and Environmental Studies

Marjorie Garber, William R. Kenan, Jr. Professor of English and of Visual and Environmental Studies

Haden R. Guest, Lecturer on Visual and Environmental Studies

Alfred F. Guzzetti, Osgood Hooker Professor of Visual Arts (*on leave spring term*)

Sharon C. Harper, Assistant Professor of Visual and Environmental Studies

Chris Killip, Professor of Visual and Environmental Studies

Carrie Lambert-Beatty, John L. Loeb Associate Professor of the Humanities (*on leave 2010-11*)

Annette Lemieux, Professor of the Practice of Studio Arts

Ruth S. Lingford, Professor of the Practice of Animation (*Director of Undergraduate Studies*)

Ross McElwee, Professor of the Practice of Filmmaking (*on leave 2010-11*)

Helen Mirra, John L. Loeb Associate Professor of the Humanities

Robb Moss, Rudolf Arnheim Lecturer on Filmmaking (*on leave fall term*)

Stephen Prina, Professor of Visual and Environmental Studies (*on leave 2010-11*)

Marina Rosenfeld, Visiting Lecturer on Visual and Environmental Studies

Matthew Saunders, Visiting Lecturer on Visual and Environmental Studies

Allen H Azar Sayegh, Visiting Lecturer on Visual and Environmental Studies

Rebecca Anne Sheehan, Harvard College Fellow in the Department of Visual and Environmental Studies

Gregory Sholette, Visiting Assistant Professor of Visual and Environmental Studies

Amie Siegel, Assistant Professor of Visual and Environmental Studies (*on leave 2010-11*)

Daniel A. Sousa, Visiting Lecturer on Visual and Environmental Studies

John R. Stilgoe, Robert and Lois Orchard Professor in the History of Landscape Development



Mungo Thomson, Visiting Lecturer on Visual and Environmental Studies
Carolyn Tribe, Visiting Lecturer on Visual and Environmental Studies
Penelope Umbrico, Visiting Lecturer on Visual and Environmental Studies

Other Faculty Offering Instruction in the Department of Visual and Environmental Studies

Ernst Karel, Lecturer on Anthropology
Hans Tutschku, Fanny P. Mason Professor of Music

The curriculum of the Department of Visual and Environmental Studies engages both practical and theoretical aspects of the built environment, digital media, drawing, film, painting, performance, photography, printmaking, sculpture, sound, video, and writing.

Most introductory-level courses are designated with two-digit course numbers and non-introductory courses with three-digit course numbers. The department also offers 200-level courses for PhD students in the Film and Visual Studies graduate secondary field.

Tutorials or special research projects may be taken only if they have been approved by the Director of Undergraduate Studies. Application forms for all VES tutorials can be picked up in the VES Department Office or downloaded from the VES website at www.ves.fas.harvard.edu.

In addition to the studio and lecture courses taught by members of the faculty of Visual and Environmental Studies, the department encourages students to explore course opportunities at the MIT Institute for Advanced Visual Studies as well as the Harvard Graduate School of Design.

Each term the department sponsors a lecture series held at the Carpenter Center for the Visual Arts. These lectures are designed to augment and inform the curriculum of the department and are usually held on Thursday evenings.

For further information on the faculty and courses in the Department of Visual and Environmental Studies, requirements for concentration, as well as the Carpenter Center lecture series, please contact the department office located on the 1st Floor of the Carpenter Center for the Visual Arts, 24 Quincy Street or visit our website at www.ves.fas.harvard.edu.

Primarily for Undergraduates

[*Visual and Environmental Studies 10a \(formerly *Visual and Environmental Studies 10\). Drawing 1](#)

Catalog Number: 6945 Enrollment: Limited to 12.

Katarina Burin

Half course (fall term). Tu., Th., 9–12.

A studio course to incrementally build drawing skills and expand visual vocabulary. Various media will be explored, and drawings will be made from life (still-life and model), photographs and invention. Although emphasis will be on enhancing our observational sensibilities, with a focus on all aspects of technical development, the assignments will also delve into the development of abstract and conceptual principles, as well as introduce specialized systems of



rendering and notation. The aim is not simply to expand drawing skills, but to apply them for visual communication of any goal. Open to beginners.

Note: No previous studio experience necessary.

***Visual and Environmental Studies 10b. Drawing 2 - (New Course)**

Catalog Number: 57371 Enrollment: Limited to 12.

Katarina Burin

Half course (spring term). Tu., 1-5, 6-8.

This course will focus on the continuing development of skills, as well as exploring further methods and modes of drawing. More emphasis will be placed on personal projects, with consideration of drawing as a means for representing other forms. We will consider drawing as an endeavor poised between traditional skills and contemporary practice.

Prerequisite: At least one VES studio half-course or permission of the instructor.

***Visual and Environmental Studies 15ar. Silkscreen: Studio Course**

Catalog Number: 2262 Enrollment: Limited to 12.

Annette Lemieux

Half course (fall term). M., 1-5 and 6-8.

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. Through slide presentations, the class will be introduced to the work of artists such as Rauschenberg and Warhol, as well as others who use the silkscreen process.

Note: No previous studio experience necessary.

***Visual and Environmental Studies 21s. New Grounds - (New Course)**

Catalog Number: 75974 Enrollment: Limited to 12.

Matthew Saunders

Half course (fall term). Tu. 1-5 and 6-8.

What role does a studio "foundation" play in a technologically and ideologically diverse moment? This will be a painting foundations course, with an emphasis on building skills and exposure to different materials and methods; yet, we also aim to question what the grounds for a painting practice could be, with consideration of conceptual and personal motivation, technical proficiency, and openness to process and experimentation.

Note: Open to beginners, while also appropriate for more advanced students.

[*Visual and Environmental Studies 22. Subtle Skills: Studio Course]

Catalog Number: 88474 Enrollment: Limited to 12.

Gerda Birgitta Sophie Tottie

Half course (fall term). Tu., Th., 9-12.

In this beginning-level studio course, students get acquainted with a variety of painting and drawing media. Students paint and draw during and outside class, working to find their own painterly practice. The course aims to put skill into perspective while unassumingly practicing and studying some of the tools used for image making. Critiques, readings, and exhibition visits are integral to the course.

Note: Expected to be given in 2011-12. No previous studio experience necessary.



***Visual and Environmental Studies 24. Painting, Smoking, Eating - (New Course)**

Catalog Number: 78679 Enrollment: Limited to 12.

Matthew Saunders

Half course (spring term). Tu. 1-5 and 6-8.

Titled after Phillip Guston, this course has two agendas: technical assignments that improve your ability to move paint around, and laying conceptual groundwork for personal projects. One task of an artist is to have a relationship with a world. We will discuss the social role of artists and the boundaries between interior and exterior discourse, with an emphasis on artists' writing, both critical and self-reflexive, treating self-expression as well as abnegation: auteurs, flaneurs, ventriloquists.

[*Visual and Environmental Studies 25x. Making Material Mean: Studio Course]

Catalog Number: 52059 Enrollment: Limited to 12.

Gerda Birgitta Sophie Tottie

Half course (spring term). M., W., 9-12.

In this painting and mixed media course, we will study all supports to underline their expressive qualities. We will examine traditional and alternate materials that can be used as expressions in themselves in our work. Students work with their own images independently, but are guided regularly in individual studio talks.

Note: Expected to be given in 2011-12. No previous studio experience necessary.

***Visual and Environmental Studies 32. Reconstruction: Studio Course**

Catalog Number: 1790 Enrollment: Limited to 12.

Helen Mirra

Half course (fall term). Th., 1-4 and a weekly lab to be arranged.

A studio course, for making things out of other things, attending to the realms of demolition, waste, surplus, and detritus.

Note: No previous studio experience necessary.

***Visual and Environmental Studies 34r. Environmental Art - (New Course)**

Catalog Number: 82175 Enrollment: Limited to 12.

Helen Mirra

Half course (fall term). W. 1-4, and a weekly lab to be arranged.

A course in which to undertake individual and collaborative projects, while considering site-specificity, ecology, ephemerality, and sustainability.

Note: No previous studio experience necessary.

[*Visual and Environmental Studies 36. Making as Thinking: Sculpture]

Catalog Number: 23095 Enrollment: Limited to 12.

Helen Mirra

Half course (fall term). Tu., Th., 1-4.

A studio course in which to experiment with simultaneous making and thinking, with simple yet unbounded materials and methods.

Note: Expected to be given in 2011-12. No studio experience necessary.



[*Visual and Environmental Studies 37. Lay of the Land: Studio Course]

Catalog Number: 3090 Enrollment: Limited to 12.

Stephen Prina

Half course (spring term). Tu., Th., 1–4.

The pursuit of and response to the horizontal in art will be the focus of this studio class. To cite a few examples, abstract expressionist painting, cartography, earthworks, landscape photography, 19th century German Romantic landscape painting, and Rayograms will provide models of the horizontal that will be points of departure for studio projects, the forms of which will be determined by what the investigation provides. Students will shift medium from project to project.

Note: Expected to be given in 2011–12. No previous studio experience necessary.

[*Visual and Environmental Studies 38. Baggage: Studio Course]

Catalog Number: 43153 Enrollment: Limited to 12.

Andrew B. Witkin

Half course (spring term). M., 1-4 p.m. and additional times to be arranged.

Engaging personal and public notions of authorship, veracity, legibility, history and value, this class focuses on exploration and performance in collecting. Students will examine possibilities and patterns to understand choice, advice, intuition and peculiarity with the goal of better communication. Sources include information distribution models, history, exhibitions in and out of art contexts and a focus on comfort. This will aid students in investigations into personal and collaborative projects employing a variety of media, methods and modes.

Note: Expected to be given in 2011–12. No previous studio experience necessary. Students from other disciplines are highly encouraged to take the course.

***Visual and Environmental Studies 40a. Introduction to Still Photography: Studio Course**

Catalog Number: 2010 Enrollment: Limited to 20.

Chris Killip

Half course (fall term; repeated spring term). Fall: M., W., 9-12 or M., W., 1-4; Spring: M., W., 9-12.

Introduction to still photography through individual and group exercises, with an emphasis on the medium as a vehicle for expression, documentation, and personal vision. Covers necessary technical, historical, and aesthetic aspects of the medium.

Note: No previous studio experience necessary.

[*Visual and Environmental Studies 40b. Intermediate Photography: Studio Course]

Catalog Number: 6256 Enrollment: Limited to 10.

Chris Killip

Half course (spring term). M., W., 1–4.

Designed to extend the student's understanding of the process through which meaning is produced in photography. Examines differing approaches to format, context, and presentation through a series of set projects.

Note: Expected to be given in 2011–12.

Prerequisite: At least one half-course in photography or permission of the instructor.



***Visual and Environmental Studies 41a. Introduction to Still Photography: Studio Course**

Catalog Number: 0705 Enrollment: Limited to 10.

Sharon C. Harper

Half course (fall term; repeated spring term). Tu., Th., 9–12.

Introduction to still photography with an emphasis on the medium as a vehicle for expression and personal vision. Covers technical, historical, and aesthetic aspects of the medium. Class is organized around slide lectures, individual meetings, group critiques, and readings.

Note: No previous studio experience necessary.

***Visual and Environmental Studies 41br. Photographic Inquiry: Studio Course**

Catalog Number: 9484 Enrollment: Limited to 10.

Sharon C. Harper

Half course (fall term). Tu., Th., 1-4.

Class emphasis will be on developing visual ideas for a self-directed photographic project. Class will be structured around regular critiques, individual meetings, readings, class discussions and museum visits. Students will create a group of photographs for a final project that are the result of a sustained, self-directed creative process.

Prerequisite: At least one half-course in photography or permission of the instructor.

[*Visual and Environmental Studies 42a. Introduction to Still Photography: Studio Course]

Catalog Number: 0622 Enrollment: Limited to 10.

Carlin Elinore Wing

Half course (fall term). Tu., Th., 1–4.

Introduction to still photography through individual and group exercises, with an emphasis on the medium as a vehicle for expression, documentation, and personal vision. Covers necessary technical, historical, and aesthetic aspects of the medium.

Note: Expected to be given in 2011–12. No previous studio experience necessary.

***Visual and Environmental Studies 50. Fundamentals of Filmmaking: Studio Course**

Catalog Number: 4907 Enrollment: Limited to 20.

Alfred F. Guzzetti (fall term) and Robb Moss (spring term)

Full course. M., 1-4, W., 1-5; or Tu., 1-4, Th., 1-5. EXAM GROUP: Spring: 6, 7, 8, 9

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 51a. Fundamentals of Video: Studio Course**

Catalog Number: 7526 Enrollment: Limited to 10.

Robb Moss

Half course (spring term). Tu., Th., 1–4.

A series of nonfiction projects, both individual and collaborative, designed to introduce and explore the range of expressive possibilities in digital video.

***Visual and Environmental Studies 51br. Nonfiction Video Projects: Studio Course**

Catalog Number: 3838 Enrollment: Limited to 10.

Lucien G. Castaing-Taylor



Half course (fall term). M., W., 1–4.

Working from a proposal approved in advance by the instructor, each student plans, shoots, and edits a documentary video of his or her design. Shooting should take place over the summer and editing during the fall term. Readings and screenings augment individual work.

Note: In exceptional cases, a student will be permitted to take the course without having filmed over the summer, but the student must have a specific proposal for a documentary that can be both shot and edited during the term. An interview with the instructor is required for admission.

Prerequisite: At least one VES half-course in live-action film or video.

[*Visual and Environmental Studies 52a. Introduction to Video]

Catalog Number: 5337 Enrollment: Limited to 10.

Robb Moss

Half course (fall term). Tu., Th., 1-4.

This course is organized to give students an immersive experience in non-fiction video production. Utilizing political and personal filmmaking assignments, weekly film screenings, and regular technical workshops, students will produce a series of short video tapes designed to explore digital filmmaking's expressive possibilities.

Note: Expected to be given in 2011–12. Admission is by interview with the instructor.

***Visual and Environmental Studies 53a. Fundamentals of Animation: Studio Course**

Catalog Number: 1360 Enrollment: Limited to 10.

Ruth S. Lingford

Half course (spring term). Tu., 1-5, and weekly film screenings F., 1-3.

An introduction to the possibilities of animation. Using a mixture of traditional and 2D digital tools, students will complete practical exercises which will familiarize them with basic skills and techniques. Screenings and discussions will help develop the specialized thinking needed to understand the discipline.

Note: Drawing skills are optional, though helpful.

[*Visual and Environmental Studies 54s. Animating Science]

Catalog Number: 83728 Enrollment: Limited to 10.

Ruth S. Lingford and Alain Viel

Half course (spring term). Th., 1-5 and film screenings F. 1-3.

This hands-on class will investigate the cross-overs between science and animation. How can animation communicate abstract ideas? How can science inspire the artist? Students will acquire some fundamental animation skills, and will work on individual and group projects. This class will be suitable for students with an interest either in science or visual art, or both.

Note: Expected to be given in 2011–12.

***Visual and Environmental Studies 56s. Animation/Studio - (New Course)**

Catalog Number: 14755 Enrollment: Limited to 10.

Matthew Saunders

Half course (fall term). M. 1-5, and weekly film screenings F. 1-3.

Assailing animation, from the studio. Topics include the animated potential of the still image, both to reflect continuum, and in modes of repetition, including series, sequence and seriality. In discussions of the moving image, "Animation" will be treated broadly as a strategy of synthetic



filmmaking. Assignments include painting and drawing - with an emphasis on expanding materials and harnessing styles - as well as collage, montage, slide works, and short videos/animations.

***Visual and Environmental Studies 57r. Maya and Multi Media**

Catalog Number: 4275 Enrollment: Limited to 10.

Allen H Azar Sayegh

Half course (spring term). M. 1-5, and a weekly screening F., 1-3.

In this class, 3D animation is used to complement the physical environment with its own rules and logic. We will explore the perceptual logic of cause and effect and the dialogue of physical and virtual. Using Maya software the course will cover the basics of 3d animation through series of assignments building up to the final project, an urban projected 3d animation on an architectural facade.

[*Visual and Environmental Studies 59x. Exercises in Narrative Film with Space and Music]

Catalog Number: 17099 Enrollment: Limited to 10.

Jan Schütte

Half course (spring term). W., 10-12.

We will analyze films in hindsight of their use of space, architecture and landscape to create emotions and dramatic effects, as well as analyzing how music affects narration in movies. Students will select a scene and film two short scenes on video in different locations, edit them, and compare the effects.

Note: Expected to be given in 2011–12.

Prerequisite: Experience in video filmmaking required.

***Visual and Environmental Studies 60x. Trials in Narrative Filmmaking - (New Course)**

Catalog Number: 21952 Enrollment: Limited to 10.

Dominique Cabrera

Half course (spring term). W., 10–1.

In this video production course, students will discover their own voice, exploring experiences in filmmaking through trials and exercises.

Prerequisite: Students must have taken at least one half-course in filmmaking or videomaking.

***Visual and Environmental Studies 61m. Sound in Time, Sound in Space: Studio Course - (New Course)**

Catalog Number: 81384 Enrollment: Limited to 10.

Marina Rosenfeld

Half course (spring term). M., 3-5 and 6-8, and a weekly lab to be arranged.

Students will produce short works exploring contemporary currents in sound installation, so-called "sound art," and related extra-musical sonic forms. Techniques include sound diffusion, localization, amplification, composition, repetition, performance and capture. No previous studio or music experience necessary.

Note: Permission of instructor required.



[*Visual and Environmental Studies 62. Film Fatale: Sculpture, Performance and Video Essay]

Catalog Number: 73367 Enrollment: Limited to 10.

Amie Siegel

Half course (fall term). M., 1-3, W., 1-4.

A studio art course on the avant-garde film and performance work of women artists and filmmakers including Babette Mangolte, Yvonne Rainer, Valie Export, Helke Sander, Chantal Akerman, Agnes Varda, Mary Kelly, Adrian Piper, Nancy Graves, Hannah Wilke, Martha Rosler and Marina Abramovic. We will study the interaction between sculpture, performance and cinema, as well as the "essay film" that shudders on the edge of fiction, documentary and performance. Appropriate for students of art history, film studies, visual art and video as well as the curious and committed.

Note: Expected to be given in 2011–12. Priority will be given to students who have completed at least one VES course in photography, film or video, but no previous video experience is required.

[*Visual and Environmental Studies 65. Tactics—Art, Politics and Performance: Studio Course]

Catalog Number: 0143 Enrollment: Limited to 10.

Amie Siegel

Half course (fall term). Tu., 1-4, Th., 1-3.

An introductory video course that asks what makes a work of art political? Through student creation of individual and collective works, as well as reading, discussion, performance, critique and viewing, we examine (and enact) approaches to the social sphere. Over the arc of the semester, students will focus on various tactics of radical art and disturbance, participating in workshops on performance, artist collectives, appropriation and cultural critique, from which may spring forth manifestoes, actions, insertions. Special focus on video as research instrument, inscription of occurrence, performance mirror, subjective essay, and mixing turntable for heterogeneous materials.

Note: Expected to be given in 2011–12. One half-course in film, video or performance useful but not required.

[*Visual and Environmental Studies 68. Delirious Montage: Images in Time and Space]

Catalog Number: 21845 Enrollment: Limited to 10.

Amie Siegel

Half course (spring term). Tu., 1-4, Th., 1-3.

In this studio course we will use photography, film, video, digital media and appropriated or "found" material in the production of our own art works. Participants explore collage, photomontage and pastiche, and editing moving images in video. How do images shift when juxtaposed with one another? How do rhythm, pacing and structure work in moving image art works? We will take in many artists' approaches to image juxtaposition, including those who engage via narrative, association, serial, rebus and photo-roman.

Note: Expected to be given in 2011–12. Useful for beginning students in visual art and film/video as well as more advanced practitioners.



***Visual and Environmental Studies 69. Film-Video-Sound Installation - (New Course)**

Catalog Number: 39559 Enrollment: Limited to 10.

Carolyn Tribe

Half course (fall term). M., W., 1–4.

A studio course in which to consider time-based art in the gallery. We will investigate multi-channel challenges, editing for a viewer that can come and go, instantaneity, bandwidth and boredom. The class will include presentations and screenings of contemporary work and some reading, but the emphasis will be on developing individual projects.

Note: Priority given to students with some experience in film, video or sound. Permission of instructor required.

Visual and Environmental Studies 70 (formerly Literature and Arts B-11). The Art of Film

Catalog Number: 4249

Rebecca Anne Sheehan

Half course (fall term). M., W., at 10; a weekly film screening W., 7-9, and a weekly section to be arranged. EXAM GROUP: 3

An introduction to film style and aesthetics with a focus on developing critical and formal analytical skills. Through readings and screenings of a broad range of films, the class examines the primary visual, aural, and narrative conventions by which motion pictures create and comment upon significant social experience. Issues of mise-en-scène, framing, image composition, photographic space, editing, sound, narrative structure, and point of view will be discussed as components of cinematic style and meaning.

Note: No background in film history or theory necessary. Required for all students concentrating in Film Studies. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts B.

Visual and Environmental Studies 71. Silent Cinema

Catalog Number: 1971

Rebecca Anne Sheehan

Half course (spring term). Tu., Th., 10-11, a weekly film screening W., 7-9 and a weekly section to be arranged. EXAM GROUP: 12

This course will survey the development of the film medium and the film industry from the beginnings in the 1890s up to the conversion to sound in the late 1920s, covering key textual and institutional transformations and tying these together with the broader cultural and social context in which films were made, exhibited, and understood. We will discuss the main national schools and international trends of filmmaking.

Note: No background in film history or theory necessary. Required for all students concentrating in Film Studies. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts B.

[Visual and Environmental Studies 72. Sound Cinema]

Catalog Number: 6997

Instructor to be determined

Half course (spring term). Tu., Th., 10-11; screenings F., 10-12, and a weekly section to be arranged.

How does sound change what we see? What new stories become possible? How does the space



of cinema change between 1930 and 1960? What happens when we throw color and widescreen into the mix? We'll seek answers to these questions while investigating the political and industrial contexts of international masters of the medium. Films and filmmakers include: *The Blue Angel*, *Citizen Kane*, *Rashomon*, *The Red Shoes*; Busby Berkeley, Hitchcock, Satyajit Ray, Ozu, and Antonioni.

Note: Expected to be given in 2011–12. No background in film history or theory necessary. Required for all students concentrating in Film Studies. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts B.

[*Visual and Environmental Studies 80. Loitering: Studio Course]

Catalog Number: 9394 Enrollment: Limited to 12.

Stephen Prina

Half course (fall term). Tu., Th., 1–4.

You will hang out in the vicinity of culture and make things in response to it. This class is not thematic or linked to any particular discipline.

Note: Expected to be given in 2011–12. No previous studio experience necessary.

***Visual and Environmental Studies 81. Post-studio Studio - (New Course)**

Catalog Number: 91081 Enrollment: Limited to 12.

Mungo Thomson

Half course (fall term). Tu., Th., 1–4.

Nomadic, laptop-based methods of producing and exhibiting art have rendered the traditional studio increasingly marginal to many art practices. How do artists function in, and address, this expanded field for both the production and reception of art? A production-based course that will take place in and around the studio. Media will shift by project but some drawing and scheming will be constant.

[*Visual and Environmental Studies 90c (formerly VES 90c. The History of Now). Art and Historical Memory, 1980-the Present]

Catalog Number: 2994 Enrollment: Limited to 12.

Carrie Lambert-Beatty

Half course (fall term). W., 2–4.

What is it about the present that is making so many artists interested in the past? How do personal and public memory take form in art, now? This art history/criticism seminar will discuss practices that range from re-staging recent riots to reciting historical speeches, modifying museums to inventing historical figures, as we explore art's current contribution to our understanding of the past.

Note: Expected to be given in 2011–12.

[Visual and Environmental Studies 92. Contemporary Art]

Catalog Number: 53514

Carrie Lambert-Beatty

Half course (spring term). M., W., 11-12 with weekly sections to be arranged.

Art of the last fifty years, with an eye to issues facing artists working today. Pop, Minimalism, Conceptual Art, Installation, and New Media: in surveying these and other developments in recent art, lecture-based class will address such topics as modernism/postmodernism; changing



models of artistic work and artists' identity; and globalization and the artworld.

Note: Expected to be given in 2011–12. Recommended for VES concentrators.

***Visual and Environmental Studies 96mr. Art and Projects - (New Course)**

Catalog Number: 97282 Enrollment: Limited to 12.

Helen Mirra

Half course (spring term). Th. 1-4, and weekly lab to be arranged.

Students will undertake projects individually or collaboratively, which may be multi-week or semester long endeavors. This is a context in which to work through ideas materially and conceptually, with a focus on process and experiential learning. The course title is in reference to the Dutch exhibition space and publication ART & PROJECT that existed from 1968-1989. For work in any media.

Note: Particularly recommended for VES concentrators.

***Visual and Environmental Studies 96r. Directed Research: Studio Course**

Catalog Number: 7299 Enrollment: Limited to 10.

Mungo Thomson

Half course (fall term). W., 6-9 pm, and additional hours to be arranged.

This course is intended for students who have developed the beginnings of a practice they are prepared to pursue. The motive is to assemble a group of disparate artists who come together to exchange thoughts across disciplines: painting next to photography next to writing next to filmmaking, and so on.

Note: Recommended for concentrators in Visual and Environmental Studies in their junior and senior year but also open to others with permission of the instructor. The first meeting of this class will be Wednesday, September 1 at 6pm.

Tutorials, Projects, and Research

Preparation for thesis is begun in studios and seminars and is carried to completion in a VES 99 tutorial during the senior year. *In rare instances* students needing special preparation not available in regularly offered courses can enroll in an optional junior or even sophomore tutorial, or a special projects course. Tutorial proposals will be considered by the Director of Undergraduate Studies only with written permission of the project adviser and if the material to be covered is substantially different from other departmental offerings. Ordinarily, tutorial proposals must be submitted before Study Cards are due. Check the department calendar for due dates.

Alternatively, students may wish to consider *Visual and Environmental Studies 96r, Directed Research*, which is intended for students who have developed the beginnings of a practice they are prepared to pursue. Please see course description above.

***Visual and Environmental Studies 91r. Special Projects**

Catalog Number: 9183

Ruth S. Lingford and Members of the Department

Half course (fall term; repeated spring term). Hours to be arranged.

Open to a limited number of students who wish to carry out a special project under supervision.



Students wishing to enroll in VES 91r must find a member of the faculty to advise the project and submit an application to the Director of Undergraduate Studies.

Note: Letter-graded only. Special Project tutorials are led by individual faculty members; however study cards should be signed by the Director of Undergraduate Studies.

[Visual and Environmental Studies 92. Contemporary Art]

Catalog Number: 53514

Carrie Lambert-Beatty

Half course (spring term). M., W., 11-12 with weekly sections to be arranged.

Art of the last fifty years, with an eye to issues facing artists working today. Pop, Minimalism, Conceptual Art, Installation, and New Media: in surveying these and other developments in recent art, lecture-based class will address such topics as modernism/postmodernism; changing models of artistic work and artists' identity; and globalization and the artworld.

Note: Expected to be given in 2011–12. Recommended for VES concentrators.

***Visual and Environmental Studies 97r. Tutorial - Sophomore Year**

Catalog Number: 0450

Ruth S. Lingford and members of the Department

Half course (fall term; repeated spring term). Hours to be arranged.

Individual instruction in subjects of special interest that cannot be studied in regular courses.

Concentrators wishing to take a tutorial in their sophomore year must find a member of the faculty to advise the project and submit an application to the Director of Undergraduate Studies.

Note: Optional for sophomore concentrators. Letter-graded only. Tutorials are led by individual faculty members; however study cards should be signed by the Director of Undergraduate Studies.

***Visual and Environmental Studies 98r. Tutorial - Junior Year**

Catalog Number: 1411

Ruth S. Lingford and members of the Department

Half course (fall term; repeated spring term). Hours to be arranged.

Individual instruction in subjects of special interest that cannot be studied in regular courses.

Concentrators wishing to take a tutorial in their junior year must find a member of the faculty to advise the project and submit an application to the Director of Undergraduate Studies.

Note: Optional for junior concentrators. Letter-graded only. Tutorials are led by individual faculty members; however study cards should be signed by the Director of Undergraduate Studies.

***Visual and Environmental Studies 99. Tutorial - Senior Year (Thesis/Senior Project)**

Catalog Number: 5141

Ruth S. Lingford and members of the Department

Full course. Hours to be arranged.

All students wishing to undertake a VES 99 project must have permission of the project adviser before being considered. The Director of Undergraduate Studies must approve all VES 99 projects and all theses must be approved by the VES Honors Board in advance.

Note: Optional for senior concentrators. Letter-graded only. Students must be enrolled in VES 99 to do a thesis. Students should arrange regular tutorial meetings with their project adviser. Senior



theses and projects are led by individual faculty members; however study cards should be signed by the Director of Undergraduate Studies.

For Undergraduates and Graduates

[*Visual and Environmental Studies 104. Culture Jam: Art and Activism since 1989: Seminar]

Catalog Number: 1066 Enrollment: Limited to 12.

Carrie Lambert-Beatty

Half course (fall term). M., 2–4.

We are living through a period of remarkable creativity in political expression: from anti-consumerism TV ads to imposter websites; “billboard liberation” to faux corporations, digital hijacking to lifestyle performance. Sometimes labeled art, sometimes not, these activities have sources in both political and art history. In this history/theory seminar we will ask: Where is the line between art and activism today? And how are we to evaluate the efficacy, ethics, and aesthetics of the new hybrids?

Note: Expected to be given in 2011–12. Primarily intended for junior and senior concentrators in Visual and Environmental Studies, but others admitted with permission of the instructor.

***Visual and Environmental Studies 107. Studies of the Built North American Environment since 1580**

Catalog Number: 7883 Enrollment: Limited to 20.

John R. Stilgoe

Half course (fall term). Tu., Th., 10–11:30.

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 109s. Dark Matter: Art, Politics, and Resistance in an Age of Enterprise Culture: Seminar

Catalog Number: 44969 Enrollment: limited.

Gregory Sholette

Half course (spring term). Th., 4–6.

This seminar surveys structures of visibility and invisibility, marginalization and resistance revealing thirty years of alternative cooperative networks, tactical media activism, and participatory public art colliding with mainstream cultural economy like its missing mass. Students research groups such as The Yes Men, Bruce High Quality Foundation, Group Material, and Temporary Services while debating critical theories of Adorno, Brecht, de Certeau, Mouff, Rancière, Enwezor, Kester, among other critics of engaged art.

***Visual and Environmental Studies 123r. Post Brush: Studio Course**

Catalog Number: 7463 Enrollment: Limited to 12.

Annette Lemieux

Half course (spring term). M. 1-5 and 6-8.



Using the silkscreen printing process, students will create paintings and objects that incorporate images and text found in popular culture. Through slides, videos and informal discussions, students will be introduced to the Pop artists of the 20th century as well as other contemporary artists.

Prerequisite: At least one VES studio half-course or permission of the instructor.

[*Visual and Environmental Studies 124x. The Painted Room: Studio Course]

Catalog Number: 36952 Enrollment: Limited to 12.

Gerda Birgitta Sophie Tottie

Half course (fall term). M., W., 9–12.

This painting course emphasizes paintings and drawings in relation to the rooms in which they exist. Students create images for on-site projects while learning to build a simple scale model in which they will test their own projects. The computer will be used as a tool to help in our exploration of translating and organizing scale. We will look at older murals and contemporary artists' use of painting and drawing in relation to the site.

Note: Expected to be given in 2011–12.

Prerequisite: At least one VES studio half-course or portfolio presentation.

***Visual and Environmental Studies 125. Surface Tensions - (New Course)**

Catalog Number: 27157

Matthew Saunders

Half course (spring term). W., 1-5, 6-8.

“Surface” considered as formal quality and useful tool. Whether taken to mean literal materials, the chain of ideas cohering a body of work, or painting’s Teflon-like durability as cultural tradition, we’ll pursue strategies to engage surface: seriality, alternative supports, facture/blur; mechanical tools, casualness and formality. Of particular interest are the challenges posed by seamlessness both in photographic sources and in conversations surrounding abstraction. Emphasis on painting, but other disciplines are welcome.

Prerequisite: At least one VES half-course in studio, or permission of the instructor.

[*Visual and Environmental Studies 128. The "Motor" of the Artist: Studio Course]

Catalog Number: 67166 Enrollment: Limited to 12.

Gerda Birgitta Sophie Tottie

Half course (spring term). Tu., Th., 9–12.

This painting and mixed media course looks at the works of different artists to explore the motivation and driving forces of making art. Over the semester students should develop a project around motivation. This class is about practically pursuing passions, doubts, questioning. Individual and group critiques inform independent studio time where students experiment with finding their own reason in making images. Exhibition visits, lectures by invited artists and student presentations are important components of the course.

Note: Expected to be given in 2011–12.

Prerequisite: At least one VES studio half-course or portfolio presentation.

[*Visual and Environmental Studies 130br. Sculpture as Analog: Studio Course]

Catalog Number: 8528 Enrollment: Limited to 12.

Helen Mirra



Half course (fall term). M., W., 1-4.

With a general focus on making sculpture, this course explores issues of visuality and textuality, content and form, analogy and abstraction, objectivity and subjectivity. Projects will build on intellectual work already begun by the student outside of VES.

Note: Expected to be given in 2011–12.

Prerequisite: At least one VES half-course or permission of the instructor.

[*Visual and Environmental Studies 134r. Experiments in Art and Labor: Studio Course]

Catalog Number: 32001 Enrollment: Limited to 12.

Helen Mirra

Half course (spring term). M., 1-4 and additional times to be arranged.

A course in which to develop modes of art practice which include forms of labor not generally associated with artmaking. For example, working collaboratively, students may research and undertake urban gardening, as a model of ingenious and perhaps pirate activity.

Note: Expected to be given in 2011–12.

Prerequisite: At least one VES half-course or permission of the instructor.

***Visual and Environmental Studies 141r. Time, Space, Motion and Still Photography**

Catalog Number: 10898 Enrollment: Limited to 10.

Sharon C. Harper

Half course (spring term). Tu., Th., 1-4.

A response to the place where motion and still photography approach one another will be the focus of this studio class. A phenomenological approach to image making will be emphasized to upend ideas of time, space and motion. Artists who raise these issues including Robin Rhodes, Michael Wesley, Tacita Dean, Bill Viola and Hiroshi Sugimoto will provide grounding for experimental student-directed projects.

Prerequisite: At least one half course in photography or the permission of the instructor.

***Visual and Environmental Studies 143r. The Photographer as Auteur: Studio Course**

Catalog Number: 2835 Enrollment: Limited to 10.

Chris Killip

Half course (spring term). M., W., 1-4.

Explores the way in which some photographic practitioners have questioned accepted photographic conventions and are rejecting the historical orthodoxy in favor of a more subjective statement. Each student is expected to complete a major photographic project that reveals his or her own personal photographic style and preoccupations while still retaining a direct and discernible relationship to the subject.

Prerequisite: At least one half-course in photography or permission of the instructor.

[*Visual and Environmental Studies 146r. The Photographic Portrait: Studio Course]

Catalog Number: 5743 Enrollment: Limited to 10.

Chris Killip

Half course (fall term). M., W. 1-4.

An examination of the practical, sociological, historical, and aesthetic issues surrounding portrait photography in parallel with the active participation of each student in his/her own photographic project.



Note: Expected to be given in 2011–12.

Prerequisite: VES 40a or VES 40b or equivalent preparation (portfolio presentation).

***Visual and Environmental Studies 149r. Investigations in Photo-Based Art - (New Course)**

Catalog Number: 60076 Enrollment: Limited to 10.

Penelope Umbrico

Half course (fall term). M., 12-5, and additional hours to be arranged. EXAM GROUP: 5, 6, 7, 8, 9

This class will investigate inherent photographic concepts, such as appropriation, decontextualization, multiple production, the use of systems, and the idea of the archive, as tools for generating personally relevant photo-based work. Tangential assignments, critiques, readings, and slide presentations will serve to broaden the students' range of working methods with the aim towards the development of a project-driven body of work.

Prerequisite: At least one half-course in photography or permission of the instructor.

***Visual and Environmental Studies 150ar. Intermediate Film Production: Studio Course**

Catalog Number: 4692 Enrollment: limited

Dominique Cabrera

Half course (fall term). Tu., 1-4, Th., 1-4.

Class will focus on narrative fiction film. Students will explore the technical and artistic possibilities of narrative fiction film by writing, directing and editing several short exercises as well as developing a script for a spring term project. The work will be discussed extensively in class. Students will also learn the techniques of lighting, sound recording and editing.

Note: Interview with instructor required for admission.

Prerequisite: VES 50.

***Visual and Environmental Studies 150br. Intermediate Film Production: Studio Course**

Catalog Number: 3934 Enrollment: Limited

Dominique Cabrera

Half course (spring term). Tu., Th., 1-4.

Students will prepare, shoot and edit a short fiction film based on a script developed in the fall term. Students will be required to be involved in shooting, sound recording and editing on other student films. The work will be discussed extensively in class.

Note: Students seeking to enroll should come to the first class meeting with a fully developed short narrative fiction screenplay.

Prerequisite: VES 150ar.

[*Visual and Environmental Studies 152r. Intermediate Video Workshop: Studio Course]

Catalog Number: 8012 Enrollment: Limited to 10.

Instructor to be determined

Half course (spring term). M., W., 1–4.

An extended nonfiction or experimental video project of the student's design, supplemented by brief exercises aimed at exploring the capabilities of the medium.

Note: Expected to be given in 2011–12. Students seeking to enroll should come to the first class meeting with a proposal for a video project to be completed in the course.

Prerequisite: One VES half-course in video production.



***Visual and Environmental Studies 153ar. Intermediate Animation: Making an Animated Film: Studio Course**

Catalog Number: 5211 Enrollment: Limited to 10.

Daniel A. Sousa

Half course (spring term). W., 1-5, and weekly film screenings F., 1-3.

Each student will design and produce a single short animation project based on an original idea, or a literary, mythic, or folkloric source of their choice. We will explore the possibilities and problems matching form and content in animated films, and develop conceptual tools each student can employ in the creation of individual project work. This course will accept both introduction level and intermediate level students.

[*Visual and Environmental Studies 153br. Intermediate Animation Workshop: Studio Course]

Catalog Number: 3477 Enrollment: Limited to 10.

Instructor to be determined

Half course (spring term). W., 1-5, and weekly film screenings F., 1-3.

Note: Expected to be given in 2011–12.

Prerequisite: At least one VES half-course in animation or permission of the instructor.

***Visual and Environmental Studies 154br. Animation Workshop: Studio Course**

Catalog Number: 1484 Enrollment: Limited to 10.

Daniel A. Sousa

Half course (fall term). W., 1-5, and weekly film screenings F., 1-3.

This course allows each student to make a short animated film, taking it through all the stages from idea to post-production. Open to beginners and experienced animators.

Note: The first meeting of this class will be Wednesday, September 1 at 1 pm.

[*Visual and Environmental Studies 155p. Combining Animation and Live Action: An Exploration of the Many Ways to Make a Composite Film: Studio Course]

Catalog Number: 3943 Enrollment: Limited to 10.

Instructor to be determined

Half course (fall term). Hours to be arranged.

This intermediate level animation class will explore creative potentials, and technical challenges, of combining live action and animation within a single film. Each student will create an individual short film project. At each stage, from early concepts to final grading, we will address the particular possibilities of such fabricated filmic worlds: developing aesthetic approaches, techniques, and a workflow tailored to such projects.

Note: Expected to be given in 2011–12.

Prerequisite: At least one VES half-course in animation or permission of the instructor.

***Visual and Environmental Studies 157t. Electro-acoustic Music and Video in Dialogue: Studio Course - (New Course)**

Catalog Number: 66277 Enrollment: Limited to 10.

Alfred F. Guzzetti and Hans Tutschku

Half course (fall term). Tu., 10-1, and a weekly lab Th., 10-1.

This course will enable artists and composers to create together. Students will not only work in



their own medium, but learn to work in the other: composers will realize video and video artists will compose. Final projects will be presented in concert.

Prerequisite: Music 167 or Music 264 or one VES half-course in video production.

***Visual and Environmental Studies 158ar (formerly *Visual and Environmental Studies 58r). Image, Sound, Culture: Studio Course**

Catalog Number: 6680 Enrollment: Limited to 10.

Lucien G. Castaing-Taylor and Ernst Karel

Half course (spring term). M., W., 1–4.

Students use video, sound, and/or hypermedia to produce short works about embodied experience, culture, and nature, and are introduced to current issues in aesthetics and ethnography.

Note: No previous studio experience necessary.

[*Visual and Environmental Studies 158br (formerly *Visual and Environmental Studies 158r). Living Documentary: Studio Course]

Catalog Number: 9385 Enrollment: Limited to 10.

Lucien G. Castaing-Taylor

Half course (fall term). Hours to be arranged.

Students produce a substantial work of ethnographically informed nonfiction using video.

Principal recording should take place prior to enrolling in the course.

Note: Expected to be given in 2011–12. An ideal follow-up course to VES 158ar, but students may enroll independently.

***Visual and Environmental Studies 160. Modernization in the Visual United States Environment, 1890-2035**

Catalog Number: 6668 Enrollment: Limited to 20.

John R. Stilgoe

Half course (spring term). Tu., Th., 10–11:30.

Modernization of the US visual environment as directed by a nobility creating new images and perceptions of such themes as wilderness, flight, privacy, clothing, photography, feminism, status symbolism, and futurist manipulation as illustrated in print-media and other advertising enterprise.

Note: Offered jointly with the Graduate School of Design as 4303.

Prerequisite: VES 107 or permission of the instructor.

[*Visual and Environmental Studies 161r. Media Anthropology: Technology, Technique, Techné: Studio Course]

Catalog Number: 5710 Enrollment: Limited to 10.

Lucien G. Castaing-Taylor

Half course (fall term). M., 10-12.

Students receive hands-on training, in the Lab and in the field, with digital video and audio production and post-production technology. Emphasis is on both mastering the technology and developing a technique consonant with one's relationship to one's subject.

Note: Expected to be given in 2011–12.

Prerequisite: VES 58r or 158r.



***Visual and Environmental Studies 162. Media Archaeology of Place - (New Course)**

Catalog Number: 24452 Enrollment: Limited to 10.

Lucien G. Castaing-Taylor and Ernst Karel

Half course (fall term). Tu., Th., 2–4; and a weekly film screening W., 6–8 p.m.

Combining media art practice with critical inquiry and ethnographic research, Boston and other sites serve as laboratories for exploring different modes of representing place. Films, maps, sound recordings, and other media artifacts are treated as archaeological objects and are re-interpreted for exhibition.

Note: An interview with the instructor is required for admission.

Prerequisite: At least one VES studio half-course, preferably in film, video or photography.

[*Visual and Environmental Studies 163. Soft and Hard: Studio Jean-Luc Godard: Studio Course]

Catalog Number: 9696 Enrollment: Limited to 10.

Amie Siegel

Half course (fall term). W., 10-12 and W., 1-4.

Students explore Godard's films while producing work as studio artists. We will look at genre, pictorial flatness vs. depth, text and image, camera movement, still images, color, asynchrony, and Brechtian tropes in Godard's cinema of reversed time, perverse interviews, critical politics, and gender. Participants try out processes of inspiration, derivation, and notation in relation to Godard's *oeuvre* to enrich their cinematic vocabulary and investigate filmic practices within their own work (video, film, drawing, sculpture, installation, performance).

Note: Expected to be given in 2011–12.

Prerequisite: At least one VES studio half-course or permission of the instructor.

***Visual and Environmental Studies 163t. The Art of Forgetting - (New Course)**

Catalog Number: 63572 Enrollment: Limited to 10.

Carolyn Tribe

Half course (fall term). Tu., Th., 9–12.

A studio course on representing the ephemeral domain of memory and its corollary, forgetting. We will look at strategic reenactments, cinematic re-writes, experimental documentaries and other efforts to stave off amnesia in addition to seeking clues from other disciplines (cognitive science, literature, psychoanalysis). Appropriate for but not limited to students of film studies, visual art and video.

Prerequisite: Priority will be given to students who have completed at least one VES studio half-course in photography, film or video, but no previous experience is required.

[*Visual and Environmental Studies 165. Moving Image—Installation, Production and Spectacle: Studio Course]

Catalog Number: 8258 Enrollment: Limited to 10.

Amie Siegel

Half course (spring term). M., 1-3, W., 1-4.

Where are the boundaries between art gallery and film set, theatrical stage or production studio? All have been appropriated and/or re-staged in installations by contemporary artists. Participants in this studio course, through the creation of their own works, will explore various strategies using cinema, video, and photography as material or metaphor in art. Students will work with



materials of 16mm film, slides, film projectors and video projection. We will consider various approaches to video installation, sound and cinematic spectacle with regard to space, staging, production and demands on viewer experience as well as gestures of genre and excess.

Note: Expected to be given in 2011–12.

Prerequisite: At least one VES studio half-course, preferably in film, video or photography, 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.

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, 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.

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 photography, advertising, video, computer-generated simulation, and designed life forms.

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 172a (formerly 186c). Film and Photography, Image and Narration]

Catalog Number: 4152

D. N. Rodowick

Half course (spring term). M., 3–5.

A survey of debates on photography and film carried out in the contexts of semiotics, structuralism, and narratology from the end of World War II until the early 1980s. In what ways can the image be considered a sign and how do images come to have meaning? Readings will include work by Roland Barthes, Christian Metz, Jean Mitry, Noël Burch, Raymond Bellour, Umberto Eco, Pier Paolo Pasolini, David Bordwell, and Gilles Deleuze.

Note: Expected to be given in 2011–12.

Prerequisite: Literature and Arts B-11 or permission of the instructor.

Visual and Environmental Studies 172b (formerly 173t). Contemporary Film Theory

Catalog Number: 9562



D. N. Rodowck

Half course (fall term). W. 1-3.

A critical and historical survey of the major questions, concepts, and trends in film theory since 1968. Weekly readings and discussion will examine how the study of film and spectatorship have been influenced by semiotics, psychoanalysis, Marxism, postmodernism, feminism, and gay and lesbian criticism, as well as multiculturalism.

Prerequisite: VES 70 or permission of the instructor.

[Visual and Environmental Studies 176n. Facing Reality: A History of Documentary Cinema]

Catalog Number: 4394

Instructor to be determined

Half course (spring term). Hours to be arranged.

The history of cinema as representation and interpretation of “reality,” focusing on masterworks of nonfiction film and video from a variety of periods and geographic locales. Emphasis on the ways in which nonfiction films can subvert viewers’ conventional expectations and their personal security. Forms to be discussed include the city symphony, ethnographic documentary, propaganda, the nature film, direct cinema, *cinéma vérité*, the compilation film and personal documentary.

Note: Expected to be given in 2011–12.

[Visual and Environmental Studies 177e. Critical Cinema: The Poetics of the Moving Image--Avant Garde Film and Its Influences](#)

Catalog Number: 0898

Rebecca Anne Sheehan

Half course (spring term). W., 1–5.

This course considers the emergence of American avant-garde film from the influences of European avant-garde filmmaking and literary modernists (like Pound, Stein, Beckett, Olson and Creeley). We will look at the aesthetics of avant-garde film as an alternative to mainstream film and to narrative film, focusing on aesthetics and philosophies that influenced the films and theories of filmmakers like Stan Brakhage, Kenneth Anger, Hollis Frampton, Maya Deren and Marie Menken.

Note: Film screenings are incorporated into the seminar class meetings.

[*Visual and Environmental Studies 178. Documents of Childhood]

Catalog Number: 48768 Enrollment: Limited to 18.

Instructor to be determined

Half course (spring term). W., 1-5 .

How well do nonfiction films represent children and childhood? What factors have shaped our views of children? The course will explore these questions from a variety of perspectives, including those of filmmakers, social scientists, television journalists, parents, and children themselves.

Note: Expected to be given in 2011–12.

[Visual and Environmental Studies 181. Frames of Mind: Film Theory]

Catalog Number: 0648



Giuliana Bruno

Half course (spring term). Th., 11:30-1, and a weekly film screening W., 7-9 pm, and weekly sections to be arranged.

Introduction to the language of film theory aimed at developing analytic skills to interpret films. Historical survey of classical and contemporary theory beginning with turn-of-the-century scientific motion studies to emotion studies of Hugo Münsterberg, to the virtual movements of our new millennium. Considers Eisenstein's theory of montage, cultural history of the cinematic apparatus, and the body of physical existence from Kracauer to gender studies. Different theoretical positions open our understanding of films and guide us in reading them.

Note: Expected to be given in 2011–12. Offered jointly with the Graduate School of Design as 4132.

[*Visual and Environmental Studies 182. Film Architectures: Seminar]

Catalog Number: 6864 Enrollment: Limited to 12.

Giuliana Bruno

Half course (fall term). W., 2-4, and a weekly film screening Tu., 7-9pm.

What is our experience of architecture in cinema? Considering the relation of these two arts of space, we look at how film and architecture are linked in history on the “screen” of the modern age. Highlighting the interaction of modernity, urban culture and cinema, we explore the architecture of film in relation to the architectures of transit and the culture of travel. Emphasis on readings and case study analysis to pursue research projects and conduct presentations.

Note: Expected to be given in 2011–12. Offered jointly with the Graduate School of Design as 4351.

Prerequisite: A course in film studies or the equivalent course in cultural studies.

Visual and Environmental Studies 183f. Cinema: Contingency and Control - (New Course)

Catalog Number: 29862

Harun Faroghi

Half course (fall term). W. 4-6, and weekly a film screening M. 3-5:30.

In this seminar, we will discuss ways in which fiction films have been influenced by the creative strategies of documentary films. These strategies include location shooting with non-professional actors, the creative use of chance, contingency and improvisation, the implementation of real-time or hidden cameras, and combining different styles and recording technologies, such as camcorders, web cams, news reporting, or video diaries. Filmmakers to be discussed include Pier Paolo Pasolini, Jean-Luc Godard, John Cassavetes, Claire Denis, Jean-Pierre and Luc Dardenne, Philippe Grandieux, Mike Figgis, and Brian de Palma.

[Visual and Environmental Studies 184. Imagining the City: Literature, Film, and the Arts]

Catalog Number: 5736

Giuliana Bruno and Svetlana Boym

Half course (fall term). Th., 11:30-1, and a weekly film screening W., 7-9 pm, and weekly sections to be arranged.

How do visual representation and narrative figuration contribute to construct urban identity? Explores the urban imagination in different artforms: architecture, cinema, literature, photography, and painting. Topics to be mapped out include: cities and modernity, metrophilia and metrophobia, the museum and cultural archaeology, the ruin and construction site, interior



space and public sphere, technology and virtual cities. We will focus on the European city, as we travel through Paris, Berlin, St. Petersburg, Moscow, Naples and Rome.

Note: Expected to be given in 2011–12. Cannot be taken for credit if Literature 184 has been taken. Cannot be taken concurrently with Literature 184. Also offered jointly with the Graduate School of Design as 4353. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts B.

[Visual and Environmental Studies 187x. From Postwar to Postwall German Cinema]

Catalog Number: 1196

Eric Rentschler

Half course (fall term). Tu., Th., 10, and , with weekly film screenings W., 4-6.

West German filmmakers gained world-wide acclaim in the 1970s for interventions marked by subversive narrative strategies and unique formal approaches. We will examine representative features by Fassbinder, Herzog, Kluge, Schlöndorf, von Trotta, and Wenders, probing these films' aesthetic shapes as well as their socio-political implications. We will also frame our discussion by looking at important films that both precede and come after the so-called New German Cinema.

Note: Expected to be given in 2011–12. No knowledge of German required. Readings, films, and discussions in English. This course, when taken for a letter grade, meets the Core area requirement for Foreign Cultures or Literature and Arts B, but not both.

[*Visual and Environmental Studies 189m. Reading Ethnographic Film: The Construction of Visual Knowledge]

Catalog Number: 33661 Enrollment: Limited to 18.

Instructor to be determined

Half course (spring term). Tu., 1-5 .

This course will examine the concept of 'visual knowledge' as it was regarded in 19th century photography and as it has been construed since in ethnographic and documentary cinema. How does the knowledge conveyed by films differ from that in written texts? What are the implications of this for ethnographic filmmaking and film viewing?

Note: Expected to be given in 2011–12.

[*Visual and Environmental Studies 190n. French New Wave Cinema]

Catalog Number: 9358 Enrollment: Limited to 15.

Instructor to be determined

Half course (spring term). Th., 1–3.

This course is meant to help situate French New Wave cinema historically, both generally within the contexts of French social and political attitudes, and more specifically, within the realms of film history and theory. Structuring our analysis around the question, "What was so new about the French New Wave?" this course explores the ways in which the movement both broke from established filmic conventions, and importantly, participated within them.

Note: Expected to be given in 2011–12.

Prerequisite: No knowledge of French required; readings, films and discussions in English.

Visual and Environmental Studies 192 (formerly Foreign Cultures 21). Cinema and French Culture from 1896 to the Present



Catalog Number: 8550

Tom Conley

Half course (spring term). M., 1-3, and a weekly film screening M., 7-9. . EXAM GROUP: 6, 7
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: This course, when taken for a letter grade, meets the Core area requirement for either Foreign Cultures or Literature and Arts B, but not both.

[Visual and Environmental Studies 194w. World Cinema Today]

Catalog Number: 4865

Dominique Bluher

Half course (spring term). Hours to be arranged.

An in-depth study of works by some of contemporary world cinema's most significant filmmakers in pertinent artistic, historical, and theoretical contexts. Provides close consideration of representative features by Wong Kar-Wai, Hayao Miyazaki, Abbas Kiarostami, Agnès Varda, David Cronenberg, Hou Hsiao-hsien, Jim Jarmusch, and others.

Note: Expected to be given in 2011–12. No background in film studies necessary.

[Visual and Environmental Studies 196. Women's Film and Video in France: Agnès Varda, Chantal Akerman and Claire Denis]

Catalog Number: 9812

Dominique Bluher

Half course (fall term). Hours to be arranged.

Agnès Varda, Chantal Akerman and Claire Denis are undoubtedly three of the most significant contemporary film directors working in France today. Having started making films in the 1960s, 1970s and 1980s, respectively, this class examines some of their landmark works in historical, cinematic and theoretical contexts.

Note: Expected to be given in 2011–12. No knowledge of French required. Readings, films and discussions in English. Previous coursework in Film Studies or related fields helpful, but not required.

Visual and Environmental Studies 197. The Cinema According to Alfred Hitchcock - (New Course)

Catalog Number: 73474

Haden R. Guest

Half course (spring term). Tu., 11:30–1; Weekly film screenings M., 4–6:30 and a weekly section to be arranged. EXAM GROUP: 13, 14

This class explores the films, career and legacy of Alfred Hitchcock, one of the legends of the American cinema and arguably among the most influential artists of the twentieth century. Using a range of diverse critical approaches to closely study key examples of Hitchcock's intricate and obsessive tales of murder and suspense, this course also traces a history of the classical Hollywood studio system that Hitchcock's remarkably successful career helped define.



Note: This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts B.

[*Visual and Environmental Studies 198. American Film Noir]

Catalog Number: 44686 Enrollment: Limited to 18.

Haden R. Guest

Half course (spring term). W., 10-11:30 and a weekly film screening M., 1-3.

This seminar offers a critical survey of American film noir, the cycle of dark, fatalistic crime films that flourished in Hollywood during the period between 1940 and 1960 and remains deeply influential today. Focusing on the close study of key films, the seminar will explore the dominant iconography, tropes and patterns within them in the specific socio-cultural contexts of post-war America and deeper changes at work within the Hollywood studio system and American popular culture.

Note: Expected to be given in 2011–12.

Related Courses of Interest for VES Concentrators

[Aesthetic and Interpretive Understanding 26 (formerly Studies of Women, Gender, and Sexuality 1133). Gender and Performance]

[African and African American Studies 109. Using Film for Social Change - \(New Course\)](#)

[*Anthropology 2837. Media Archaeology of Place - \(New Course\)](#)

[Culture and Belief 30. Photography and Society]

[Dramatic Arts 135 \(formerly Dramatic Arts 30\). Design for the Theatre: History and Practice](#)

[*Dramatic Arts 136 \(formerly *Dramatic Arts 31\). Designing for the Stage](#)

[Dramatic Arts 160x. Surveillance, Performance, and Culture - \(New Course\)](#)

[Dramatic Arts 162x. Where Dance Meets Performance Art - \(New Course\)](#)

[East Asian Studies 120. Melodrama in East Asian Cinema - \(New Course\)](#)

[French 167. Parisian Cityscapes]

[French 184. Cinema and the *auteur*]

[*History 88b. Medieval History and Cinema - \(New Course\)](#)

[History of Art and Architecture 70. Introduction to Modern Art and Visual Culture, 1700–1990s](#)

[History of Art and Architecture 170s. Frank Lloyd Wright and the Modern City and Suburb :Proseminar](#)

[*History of Art and Architecture 173m. The Early Modern Artist](#)

[*History of Art and Architecture 176m. Berlin & Moscow, 1918/1933 : Proseminar - \(New Course\)](#)

[History of Art and Architecture 199k. The Study of Architectural History : Critical Issues and Methodologies : Seminar - \(New Course\)](#)

[*History of Science 152. Filming Science]

[*Indian Studies 123. Bollywood and Beyond: Commercial Cinema, Language and Culture in South Asia.]

[Italian 163 \(formerly Italian 113\). On the Road: Journeys in Italian Cinema](#)

[Japanese Literature 133 \(formerly Japanese Literature 250r\). Gender and Japanese Art](#)

[Japanese Literature 161. Introduction to Japanese Animation](#)



Japanese Literature 162. Girl Culture, Media, and Japan

***Literature 146 (formerly *Literature 124). Space and Place in Postmodern Culture**

Scandinavian 115. Nordic Cinema

[Slavic 147. Soviet Film After Stalin]

Spanish 172. Barcelona and Modernity

***Studies of Women, Gender, and Sexuality 1245. Virgins, Vamps, and Camp: Gender and Sexuality in Classical Hollywood Cinema - (New Course)**

Primarily for Graduates

[*Visual and Environmental Studies 220. The Animal Moment: The Visual and Verbal Animal (Graduate Seminar in General Education)]

Catalog Number: 3491

Marjorie Garber

Half course (spring term). W., 2–4.

What can visual culture and literary study contribute to interdisciplinary animal studies, which has become a central preoccupation for numerous and diverse fields? Through analysis of and encounter with visual art, film, literature, critical theory, and "real" animals, this course will cover topics like: vegetarianism, animal experimentation, "wild" humans, suffering, pathos, pets, zoos, talking animals, bio-art, animal law, projection, identification, and displacement. The seminar will design and develop a General Education course on these themes for undergraduates.

Note: Expected to be given in 2011–12.

***Visual and Environmental Studies 230. Style and Structure in Documentary - (New Course)**

Catalog Number: 96491

Harun Faroghi

Half course (fall term). Tu. 11:30-1 and a weekly film screening M. 1-3. EXAM GROUP: 13, 14

This course will examine the various ways that non-fiction films order and narrativize their materials. Drawing on examples from the history of documentary filmmaking, we will consider questions of commentary, voice, narration, and visual structure with special attention to stylistic strategies that draw upon specifically cinematic means. Filmmakers to be discussed include Robert Flaherty, Dziga Vertov, Walter Ruttmann, Chris Marker, and James Benning; we will also discuss films from the Direct Cinema movement.

***Visual and Environmental Studies 270. Proseminar in Film and Visual Studies: History**

Catalog Number: 1741

Tom Conley

Half course (fall term). Th. 11:30-1 and a weekly film screening Tu., 7-9.

Considers film history and the relations between film and history as well as pertinent theoretical approaches to historiography. Critical readings of exemplary film historical studies and careful scrutiny of films both in and as history.

Note: Required of all graduate students intending to declare a secondary field in Film and Visual Studies.



***Visual and Environmental Studies 271. Proseminar in Film and Visual Studies: Theory**

Catalog Number: 0159

D. N. Rodowick

Half course (spring term). M., 3–5.

An advanced survey of current debates on the place of the moving image in contemporary visual culture and art practice with respect to concepts of space, time, movement, and affect.

Note: Required of all graduate students intending to declare a secondary field in Film and Visual Studies.

***Visual and Environmental Studies 275a (formerly Visual and Environmental Studies 175a). Framing the I: Autobiography and Film**

Catalog Number: 3084 Enrollment: Limited to 12. Open to undergraduates with instructor's permission.

Dominique Bluher

Half course (spring term). Th., 11:30–1 and a weekly film screening Tu. 7-9 pm.

This course explores the forms of self-representation in film and video in the framework of modern philosophical, psychoanalytical, and socio-cultural conceptions of the self, as well as recent theoretical and artistic developments in the visual arts and literature.

Prerequisite: A course in Film Studies or equivalent course in related fields.

[*Visual and Environmental Studies 285x (formerly *Visual and Environmental Studies 185x). Visual Fabrics: Film, Fashion and Material Culture: Seminar]

Catalog Number: 1575 Enrollment: Limited to 12. Open to undergraduates with instructor's permission.

Giuliana Bruno

Half course (spring term). W., 2-4, and a weekly film screening Tu., 7-9 pm.

Explores the common language of film and fashion, both powerful image makers and objects of material culture. Film and fashion share a role with architecture and contemporary art creating narratives and atmospheres, conveying identity and shaping visual expression. We explore their common language, particularly the current intersection with contemporary visual arts, treating these elements as part of our cultural “fabric” through a text(ur)al analysis of Wong Kar-wai's *In the Mood for Love*.

Note: Expected to be given in 2011–12. Offered jointly with the Graduate School of Design as 4354.

Prerequisite: A course in film studies or the equivalent course in cultural studies.

Graduate Courses of Reading and Research

***Visual and Environmental Studies 301. Film Studies Workshop**

Catalog Number: 2867

D. N. Rodowick 4703

***Visual and Environmental Studies 310. Reading and Research**

Catalog Number: 5851

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.

***Visual and Environmental Studies 320. Directed Study**

Catalog Number: 0441

Members of the Department

***Visual and Environmental Studies 350. Critical Media Practice: Non Fiction Filmmaking Workshop - (New Course)**

Catalog Number: 85749 Enrollment: Limited to 10.

Lucien G. Castaing-Taylor

Half course (spring term). Tu., 6–8 p.m.

A graduate workshop for Film Study Center non-fiction film and video projects.

Related Courses of Interest for Film and Visual Studies Graduate Program

[*Anthropology 2635. Image/Media/Publics: Seminar]

[*Anthropology 2835r. Sensory Ethnography I](#)

[*Anthropology 2836r. Sensory Ethnography II: Studio Course]

[*Anthropology 2837. Media Archaeology of Place - \(New Course\)](#)

[Comparative Literature 273. Approaches to Modernity: The Metropolis]

[East Asian Studies 250. From Propaganda to Testimony: East Asian History on Film: Seminar - \(New Course\)](#)

[History of Science 290. Critical History: Curating Images, Objects, Media: Seminar - \(New Course\)](#)

[History of Science 291. Science and Art \(Graduate Seminar in General Education\) - \(New Course\)](#)

[Slavic 240. Soviet Cinema and the Bolshevik Revolution: Seminar - \(New Course\)](#)

[Slavic 281. Literature, Film, and Visual Arts in Russia, 1920-1930]

[Studies of Women, Gender, and Sexuality 1226. Sex and Power in Modern Latin America and U.S. Latino Culture](#)

Women, Gender, and Sexuality

AN HISTORICAL EDITION OF FAS COURSES OF INSTRUCTION

Faculty of the Committee on Degrees in Studies of Women, Gender, and Sexuality



Afsaneh Najmabadi, Francis Lee Higginson Professor of History and Professor of the Studies of Women, Gender, and Sexuality (*Chair*)

Robin M. Bernstein, Assistant Professor of Studies of Women, Gender, and Sexuality and of History and Literature (*on leave 2010-11*)

Peter J. Burgard, Professor of German

Nancy F. Cott, Jonathan Trumbull Professor of American History

Bradley S. Epps, Professor of Romance Languages and Literatures and of Studies of Women, Gender, and Sexuality

Rachel L. Greenblatt, Assistant Professor of Near Eastern Languages and Civilizations

Helen Hardacre, Reischauer Institute Professor of Japanese Religions and Society (*on leave spring term*)

Alice Jardine, Professor of Romance Languages and Literatures and of Studies of Women, Gender, and Sexuality (*on leave 2010-11*)

Ewa Lajer-Burcharth, William Dorr Boardman Professor of Fine Arts

Caroline Light, Lecturer on Studies of Women, Gender, and Sexuality (*Director of Studies for Women, Gender, and Sexuality*)

Melissa M. McCormick, Professor of Japanese Art and Culture

Marcyliena Morgan, Professor of African and African American Studies

Katharine Park, Samuel Zemurray, Jr. and Doris Zemurray Stone Radcliffe Professor of the History of Science

Sindhumathi Revuluri, Assistant Professor of Music

Sarah S. Richardson, Assistant Professor of the History of Science and of Studies of Women, Gender, and Sexuality

Oliver Simons, Assistant Professor of Germanic Languages and Literatures

Kimberly Theidon, John L. Loeb Associate Professor of the Social Sciences

Laurel Thatcher Ulrich, 300th Anniversary University Professor

Jocelyn Viterna, Assistant Professor of Sociology and of Social Studies

Adelheid Voskuhl, Associate Professor of the History of Science

Tomiko Yoda, Takashima Professor of Japanese Humanities

Affiliated Members

Dominique Bluher, Lecturer on Visual and Environmental Studies

Verena A. Conley, Visiting Professor of Comparative Literature and of Romance Languages and Literatures

Other Faculty Offering Instruction in Studies of Women, Gender, and Sexuality

Chiwen Bao, Lecturer on Social Studies

Karen P. Flood, Lecturer on Studies of Women, Gender, and Sexuality

Erin R. Helfrich, Lecturer on Studies of Women, Gender, and Sexuality

Chaitanya Lakkimsetti, College Fellow in Studies of Women, Gender, and Sexuality

Susan B. Marine, Assistant Dean of Harvard College for Student Life and Director of the Women's Center

Cameron Elliot Partridge, Lecturer on Studies of Women, Gender, and Sexuality



Maria San Filippo, Lecturer on Studies of Women, Gender, and Sexuality

Linda Schlossberg, Lecturer on Studies of Women, Gender, and Sexuality

Primarily for Undergraduates

***Studies of Women, Gender, and Sexuality 91r. Supervised Reading and Research**

Catalog Number: 6225

Director of Studies and staff

Half course (fall term; repeated spring term). Hours to be arranged.

The study of selected topics in studies of women, gender, and sexuality.

[*Studies of Women, Gender, and Sexuality 96-ABL (formerly *Studies of Women, Gender, and Sexuality 1215). Off the Page and Into the World: Feminist Praxis in the Community]

Catalog Number: 3232 Enrollment: Limited to 12.

Susan B. Marine

Half course (spring term). Hours to be arranged.

This course will involve students in experiential learning in community agencies that serve women, girls, and/or gay, lesbian, bisexual and transgender communities. The course will require students to apply feminist theory to the challenges of organized social change. Internship placements of 8 hours a week in a community agency or non-profit organization must be approved by the instructors, in projects that advance students' knowledge of the intersection of identities, feminist ideologies, and feminist praxis.

Note: Expected to be given in 2011–12. Interested students are strongly encouraged to attend an information session in December detailing the requirements for the course (contact the WGS office for meeting details). Student enrollment in this course is contingent upon placement at one of the approved internship sites. The placement process will begin during the first week of the course.

***Studies of Women, Gender, and Sexuality 97. Tutorial-Sophomore Year**

Catalog Number: 7217 Enrollment: Limited to concentrators.

Linda Schlossberg

Half course (spring term). W., 1–3. EXAM GROUP: 6, 7

An introduction to foundational concepts and analytical tools in the study of gender and sexuality. Focus on the ways in which diverse people have understood gender, sexuality, race, and nationhood as categories of knowledge. Case studies of activists and theorists forging complex alliances across unstable differences. Readings include Gloria Anzaldúa, Adrienne Rich, Simone de Beauvoir, Chandra Talpade Mohanty, Donna Haraway, Patricia Hill Collins, Inderpal Grewal, Judith Butler, Monique Wittig, Alison Bechdel, and Michel Foucault.

Note: Required of, and limited to, Women, Gender, and Sexuality concentrators in their first year in the concentration.

***Studies of Women, Gender, and Sexuality 98r. Tutorial — Junior Year**

Catalog Number: 8094

Director of Studies and staff

Half course (fall term; repeated spring term). Hours to be arranged.



Note: Ordinarily taken by concentrators for one term in the second term of the junior year. Concentrators planning to study abroad in the second term should take WGS 98r in the first term of the junior year.

***Studies of Women, Gender, and Sexuality 99a. Tutorial — Senior Year**

Catalog Number: 6763

Linda Schlossberg

Half course (fall term). Hours to be arranged.

Note: Both WGS 99a and 99b are required of all honors concentrators in their senior year.

***Studies of Women, Gender, and Sexuality 99b. Tutorial — Senior Year**

Catalog Number: 5847

Linda Schlossberg

Half course (fall term; repeated spring term). Hours to be arranged.

Note: Both WGS 99a and 99b are required of all honors concentrators in their senior year.

For Undergraduates and Graduates

Studies of Women, Gender, and Sexuality 1125. Gender and Health

Catalog Number: 4563

Mary Ruggie (Kennedy School)

Half course (spring term). M., W., at 12 and a one-hour section to be arranged. EXAM GROUP: 5

Based on theoretical debates between feminism and science and different understandings of health, illness, and healing, we explore the role of women, the medical profession, and various social institutions in constructing knowledge about gender and health. Among the issues we discuss are health behaviors, reproductive health, STDs, mental health, cancer, and aging. Throughout, we identify differences among women and men of different class, race, and ethnic groups.

[Studies of Women, Gender, and Sexuality 1154. I Like Ike, But I Love Lucy: Women, Popular Culture, and the 1950s]

Catalog Number: 6855 Enrollment: Limited to 30.

Alice Jardine

Half course (spring term). Hours to be arranged.

A diagnosis and analysis of this formative decade for the US babyboomer. Taught from a cultural studies perspective, the course focuses on gender politics in print media, film, television, and rock of the early cold war era. Topics include: the bomb and TV, the Rosenberg trial, early civil rights movement, beat generation, Hollywood dreams of true love, Elvis Presley, Marilyn Monroe, Lucille Ball, Jack Kerouac, Joe McCarthy, Rosa Parks, and others.

Note: Expected to be given in 2011–12. This course, when taken for a letter grade, meets the Core area requirement for Literature and Arts C.

Studies of Women, Gender, and Sexuality 1163. Cultures of Sexuality in Global Perspective - (New Course)

Catalog Number: 93913



Caroline Light and Chaitanya Lakkimsetti

Half course (fall term). M., W., at 11 and a one-hour section to be arranged. EXAM GROUP: 4

This course asks students to examine issues of sexuality and identity in a global perspective, in places including the Caribbean, North America, and South Asia. How do personal and legal definitions of practices, desires, and identities change in relation to specific geographies and histories? Topics will include: prostitution/sex work, HIV-AIDS, discrimination and the law, activism and organizing.

Note: This course, when taken for a letter grade, meets the Core area requirement for Social Analysis.

Studies of Women, Gender, and Sexuality 1168. Education, Race, and Gender in the United States

Catalog Number: 72986

Chiwen Bao

Half course (fall term). Tu., Th., at 1 and a one-hour section to be arranged. EXAM GROUP: 15

Education in the United States often appears as democratizing and a means of upward mobility, an idea complicated by issues of race, gender, class, and sexuality, all of which shape students' and teachers' experiences. This class examines theoretical and empirical studies on various schooling spaces and practices and explores how intersecting constructs of identity — such as girl, boy, black, Latino/a, Asian, white — become meaningful in schools and bear implications for individuals and society.

Note: This course, when taken for a letter grade, meets the Core area requirement for Social Analysis.

[*Studies of Women, Gender, and Sexuality 1200fh. Our Mothers, Ourselves: Postwar American Feminist Thought]

Catalog Number: 3042 Enrollment: Limited to 16.

Alice Jardine

Half course (spring term). Tu., Th., at 12.

The classics of American postwar, mainstream feminist thought are sometimes assumed, sometimes reviled, but rarely re-read. In this seminar, we will read critically across four decades of widely-read, influential feminist books, keeping constantly in view the philosophical and political, psychological and historical, legal and ethical questions at the heart of women, gender, and sexuality studies today.

Note: Expected to be given in 2011–12.

[Studies of Women, Gender, and Sexuality 1200qh. Transgender History]

Catalog Number: 5244

Instructor to be determined

Half course (fall term). Hours to be arranged.

Note: Expected to be given in 2011–12. WGS Concentrators may fulfill this requirement in 2010-11 only by enrolling in History 1462: History of Sexuality in the Modern West with Professor Nancy Cott (spring term).

***Studies of Women, Gender, and Sexuality 1210ft. Feminist Theory: Global Perspectives**

Catalog Number: 5590 Enrollment: Limited to 15.



Chaitanya Lakkimsetti

Half course (spring term). M., 2–4.

Global flows of people, ideas, and resources - a phenomenon loosely termed "globalization" - has challenged feminist theorists and activists as they grapple with global inequalities and shifting ideas around gender and sexuality. This course examines feminist responses to these changes, on topics including immigration, sex work, global tourism, and human rights.

[*Studies of Women, Gender, and Sexuality 1210qt (formerly Studies of Women, Gender, and Sexuality 1003). Queer Theory]

Catalog Number: 9232 Enrollment: Limited to 15.

Bradley S. Epps

Half course (spring term). Hours to be arranged.

Examines the possibilities and pitfalls of a specifically "queer" understanding of gender, sexuality, culture, history, and politics. Special attention will be given to the international sweep and limits of queerness as conceptual category and identity (and anti-identity) formation in relation to questions of race, ethnicity, nationality, and class as well as artistic production and activism. Works by Butler, Sedgwick, Foucault, Rubin, Halperin, Warner, Wittig, Bersani, Cohen, Lorde, Halberstam, Califia, Stryker, Quiroga, Najmabadi, and many others.

Note: Expected to be given in 2011–12.

Studies of Women, Gender, and Sexuality 1226. Sex and Power in Modern Latin America and U.S. Latino Culture

Catalog Number: 6527

Bradley S. Epps

Half course (spring term). Tu., Th., 10-11 and a one-hour section to be arranged. EXAM GROUP: 12

Focuses on 20th-century narrative fiction, testimony, and film by or about women and non-heteronormative men from a variety of linguistic cultures (French, Spanish, Creole, Maya-Quiché, English, Portuguese), paying special attention the ties and tensions between feminism, queer theory, and post-colonialism. Other topics include gender and genre; sexuality and the state; social engagement and artistic autonomy; nationality, nationalism, and internationalism; class conflict and the global market; family formations and kinship; ritual and religion; homosexuality, heterosexuality, and transgenderism; authoritarianism and democracy

Note: Course will be taught in English, with one section taught in Spanish. May count for Spanish Language Citation.

Studies of Women, Gender, and Sexuality 1231. American Social Body - (New Course)

Catalog Number: 25321

Keridwen Luis

Half course (spring term). M., W., at 1, and a one hour section to be arranged. EXAM GROUP: 6

This course explores the ways in which the body is shaped in American culture. What social and cultural meanings do we attach to certain bodies? How do social systems of inequality, such as racism, sexism, ableism and classism influence how we see bodies? Topics to include dieting and fitness, body image and "the beauty myth," fashion and plastic surgery.



[*Studies of Women, Gender, and Sexuality 1232. Postcolonial Women's Writing]

Catalog Number: 8406 Enrollment: Limited to 15.

Katherine Stanton

Half course (fall term). Hours to be arranged.

Rejecting what Anne McClintock calls "bogus universals" like "the postcolonial woman," this course will examine how postcolonial women's writing represents and resists local and imperial power, developing a more complex understanding of agency. But our readings of literary and critical texts will also ask us to scrutinize the very suitability of the term "postcolonial." Our authors will include Michelle Cliff, Tsitsi Dangaremba, Jessica Hagedorn, and Arundhati Roy, among others.

Note: Expected to be given in 2011–12. This course, when taken for a latter grade, meets the Core area requirement for Literature and Arts A.

[*Studies of Women, Gender, and Sexuality 1233. Gender, Sexual Violence, and Empire]

Catalog Number: 4121 Enrollment: Limited to 15.

Katherine Stanton

Half course (spring term). Hours to be arranged.

Making the case for what Deepika Bahri identifies as the "prominent and constitutive" role of gender-and sexuality-in colonial formations, this course will examine how gendered and sexed ideas and practices were critical to signifying racial difference, naturalizing exploitation, symbolizing the colonial mission, and managing colonial economies. We will ask, with Ann Laura Stoler, was sexual domination a metaphor for colonial power, or the very "substance" of imperial policy?

Note: Expected to be given in 2011–12.

***Studies of Women, Gender, and Sexuality 1238. Consuming Passions**

Catalog Number: 5605 Enrollment: Limited to 15.

Caroline Light

Half course (fall term). Th., 2–4.

Course explores how sexuality and desire frame experiences of consumption historically, and how unequal distributions of global power influence the relationship between producers of globally marketed goods and services and those who consume them. Topics include sex tourism, migrant domestic labor, international adoption and surrogacy, and the commercialization of same-sex desire.

Studies of Women, Gender, and Sexuality 1242. Masculinities - (New Course)

Catalog Number: 44637

Cameron Elliot Partridge

Half course (fall term). Tu., Th., at 10 and a one-hour weekly section to be arranged. EXAM GROUP: 12

From politics, to professional sports, to action films, ideas of "what makes a man" are ever-present. This course introduces students to ideas of masculinity in relation to issues of gender, sexuality, race, ethnicity, ability, socio-economic class, and religion. Questions include: Why are certain mannerisms, activities, professions, and even objects considered masculine? How have ideas of masculinity changed over time and in relation to various debates around health, morality, and the family?



***Studies of Women, Gender, and Sexuality 1245. Virgins, Vamps, and Camp: Gender and Sexuality in Classical Hollywood Cinema - (New Course)**

Catalog Number: 26366 Enrollment: Limited to 15.

Maria San Filippo

Half course (fall term). W., 1-3. EXAM GROUP: 6, 7

From the 1930s-1960s, the Hollywood studio system dominated cinema worldwide and with it images of and discourse on sex, gender, and sexuality. Through critical analysis of classics such as *Gilda*, *Gentlemen Prefer Blondes*, *Johnny Guitar*, *Morocco*, *Pillow Talk*, and *Psycho*, we will investigate Hollywood's role in constructing, negotiating, and occasionally transgressing norms of identity, behavior, and desire. Taught from a cinema/cultural studies perspective, and incorporating topics and texts integral to feminist and queer film theory.

Note: Film screenings scheduled for Tuesdays 8-10 pm.

***Studies of Women, Gender, and Sexuality 1300. Approaches to Research and Writing in WGS**

Catalog Number: 4429 Enrollment: Limited to 15.

Sarah S. Richardson and Sarah Richardson

Half course (fall term). M., 1-4. EXAM GROUP: 6, 7, 8

The objective of the course is to provide a feminist analysis of methods and methodologies as intellectual frameworks within the social sciences, sciences, and humanities. We will focus on how feminist scholars challenge dominant theories of knowledge, engage feminist epistemologies, and employ feminist methodologies in working on a research project over the course of the semester in each student's area of interest.

Note: Required of all full and primary concentrators. Strongly recommended for joint concentrators with WGS as the allied field.

[*Studies of Women, Gender, and Sexuality 1407. Harlots, Dandies, Bluestockings: Sexuality, Gender, and Feminism in the 18th and 19th Centuries]

Catalog Number: 0730 Enrollment: Limited to 15.

Linda Schlossberg

Half course (spring term). Hours to be arranged.

How did social forces in the 18th and 19th centuries shape (and contest) new theories of womanhood, sexuality, and political equality? Readings from a variety of literary and political sources, including *"Fanny Hill: Memoirs of a Woman of Pleasure," "Moll Flanders," "The Picture of Dorian Gray," "Dr. Jekyll and Mr. Hyde," "A Vindication of the Rights of Women."* Areas of inquiry: prostitution, the suffrage movement, motherhood, property rights, psychology, manliness, sexology, Victorian pornography.

Note: Expected to be given in 2011-12.

***Studies of Women, Gender, and Sexuality 1409. Transsexuality, Transgenderism, and the Rest**

Catalog Number: 3822 Enrollment: Limited to 15.

Afsaneh Najmabadi

Half course (spring term). Tu., 2-4. EXAM GROUP: 16, 17

This course will cover narrative, anthropological, historical, scientific, and theoretical texts (including films) about transsexuality and transgenderism. The course will begin with



transsexuality before and beyond identity politics and its transformation in the light/shadow of identity politics and theories of gender; it will consider these issues initially in a Euro-American context, but also move onto other socio-cultural formations and consider how trans-subjectivities as well as histories and politics of transsexuality and transgenderism have been formed transnationally.

Note: Please see syllabus for prerequisite reading. Permission of instructor required.

***Studies of Women, Gender, and Sexuality 1411. Native American Cultures: Studies in Gender, Sex, and Sexuality - (New Course)**

Catalog Number: 57498 Enrollment: Limited to 15.

Keridwen Luis and Keridwen Luis

Half course (fall term). Tu., 2–4. EXAM GROUP: 16, 17

This course examines issues of gender, sex, and sexuality in various Native American cultures in a historical, anthropological, and political context. We will explore sex roles, marriage and the family, and gender variant identities, as well as the massive impact of colonialization, racism, and missionary activity on gendered understandings in present-day American cultures.

***Studies of Women, Gender, and Sexuality 1421. Medical Management of the Female Body - (New Course)**

Catalog Number: 21083 Enrollment: Limited to 15.

Sarah S. Richardson

Half course (spring term). Th., 1-3 and a one-hour section to be arranged.

This course examines how Western medical knowledge, practices, and institutions define female health and normality and manage diseased and gender-variant female bodies. How, for instance, does medicine conceive of the female body as a medical problem or mystery and how do race, class, and sexuality inflect these conceptions? Topics include: "female maladies," medicalization of childbirth and the pregnant body, medical management of transgender and intersexed bodies, ideals of fitness, cosmetic surgery, disability, and pharmaceutical marketing.

[*Studies of Women, Gender, and Sexuality 1436 (formerly Studies of Women, Gender, and Sexuality 1136). Body Image]

Catalog Number: 1391 Enrollment: Limited to 15.

Linda Schlossberg

Half course (fall term). Hours to be arranged.

This seminar examines body image issues from a variety of historical, literary, and philosophical perspectives. Topics include the historical emergence of anorexia and other eating disorders, the influence of the popular media, feminist critiques of the diet industry, body image activism, and hunger as metaphor.

Note: Expected to be given in 2011–12. Not open to students previously enrolled in WGS 1136.

***Studies of Women, Gender, and Sexuality 1500. The Working World: Contemporary Problems in Studies of Women, Gender, and Sexuality - (New Course)**

Catalog Number: 72605 Enrollment: Limited to 12.

Karen P. Flood

Half course (spring term). Th., 1–3. EXAM GROUP: 15, 16

This capstone seminar allows advanced students to synthesize previous semesters of study while



looking ahead to their working lives after graduation. The course will examine the evolution of feminist scholarship on work broadly defined, and students will independently investigate a contemporary problem of the "working world." Topics will include "masculine" and "feminine" occupations, care work and housework, gender and sexual identity in the workplace, sexual harassment, sex work, labor activism, and the politics of welfare.

Note: Intended for WGS seniors on capstone track, but open by permission of instructor to other advanced students with experience in women, gender, and sexuality studies.

Primarily for Graduates

***Studies of Women, Gender, and Sexuality 2000 (formerly Studies of Women, Gender, and Sexuality 1000gm). Introduction to WGS: Graduate Proseminar**

Catalog Number: 9620 Enrollment: Limited to 15.

Bradley S. Epps

Half course (fall term). Th., 2–5. EXAM GROUP: 16, 17, 18

An overview of major questions raised by the interdisciplinary study of women, gender, and sexuality and the challenges thus raised to traditional divisions of knowledge. We will privilege dialogue and process while assessing trends in the often tense, but overlapping, areas of feminist, lgbt and queer inquiry. Special attention given to intersectional and international issues across a range of disciplines, including history, anthropology, psychoanalysis, sexology, critical theory, economics, law, cultural studies, literature, art, and film.

Note: Will count as the Graduate Proseminar for the PhD secondary field requirement in WGS.

Graduate Courses of Reading and Research

***Studies of Women, Gender, and Sexuality 3000. Reading and Research**

Catalog Number: 17353

Brad Epps and members of the Committee

Half course (fall term; repeated spring term). Hours to be arranged.

Note: Open only by petition. Applicants for admission should first confer with the Director of Graduate Studies.

Of Related Interest

Courses related to the studies of women, gender, and sexuality offered by other departments are listed below. Many of the courses may be taken for graduate credit. Students should also investigate offerings in other faculties in which they may cross-register, such as the Graduate School of Education, the Law School, the Medical School, and the Women's Studies program at the Divinity School. This list is for informational purposes only and courses are not pre-approved for WGS concentration credit. For courses offered by other departments that are approved for WGS concentration credit please contact the WGS main office.

[Aesthetic and Interpretive Understanding 26 (formerly Studies of Women, Gender, and Sexuality 1133). Gender and Performance]

African and African American Studies 109. Using Film for Social Change - (New Course)
African and African American Studies 118. The History of African Americans From the Slave Trade to the Great Migration



[Culture and Belief 22. The Heroic and the Anti-Heroic in Classical Greek Civilization](#)
[Culture and Belief 41 \(formerly Historical Study A-67\). Gender, Islam, and Nation in the Middle East and North Africa](#)
[Ethical Reasoning 22 \(formerly Moral Reasoning 22\). Justice](#)
[Foreign Cultures 60. Individual, Community, and Nation in Vietnam](#)
[*French 61a \(formerly French 48b\). Classicism and Modernity: An Introduction to Performance](#)
[French 70b. Introduction to French Literature II. 19th and 20th Centuries: Moving and Shaking](#)
[French 155 \(formerly French 255\). Metamorphoses of the Vampire](#)
[French 259. The Culture of Hysteria in Nineteenth-Century France](#)
[German 149. Neurosis, Hysteria and the Schizoid - Pathologies of the Subject in Literature and Thought - \(New Course\)](#)
 [Historical Study B-35. The French Revolution: Causes, Processes, and Consequences]
 [*History 81f (formerly History 1127). Women's Voices in Medieval and Early Modern Europe]
[*History 84s. Women Acting Globally - \(New Course\)](#)
[History 1462. History of Sexuality in Modern West - \(New Course\)](#)
[History 2805 \(formerly History 2905\). Gender and Sexuality: Comparative Historical Studies of Islamic Middle East, North Africa, South, and East Asia: Seminar](#)
 [*History 2967 (formerly *History 2912). What is History? Concepts, Practices, Critique: Seminar]
 [History 2970. Gender History: Proseminar]
[History of Art and Architecture 70. Introduction to Modern Art and Visual Culture, 1700–1990s](#)
[History of Science 108. Bodies, Sexualities, and Medicine in the Medieval Middle East - \(New Course\)](#)
[Japanese History 145. Lady Samurai in Medieval Japan](#)
[Japanese Literature 133 \(formerly Japanese Literature 250r\). Gender and Japanese Art](#)
[Latin American Studies 90b. Gender, Writing, and Subalternity in the Americas - \(New Course\)](#)
[Literature and Arts A-16. Lives Ruined by Literature: The Theme of Reading in the Novel](#)
[Portuguese 44 \(formerly Portuguese 38\). Images of Brazil: Contemporary Brazilian Cinema](#)
[Spanish 172. Barcelona and Modernity](#)
[Spanish 277. Africa in the Modern Hispanic Imaginary](#)
 [United States in the World 14 (formerly Historical Study B-40). Pursuits of Happiness: Ordinary Lives in Revolutionary America]
 [United States in the World 16 (formerly Historical Study A-86). Men and Women in Public and Private: the US in the 20th Century]
 [Visual and Environmental Studies 181. Frames of Mind: Film Theory]
 [*Visual and Environmental Studies 182. Film Architectures: Seminar]
 [Visual and Environmental Studies 184. Imagining the City: Literature, Film, and the Arts]
 [Visual and Environmental Studies 196. Women's Film and Video in France: Agnès Varda, Chantal Akerman and Claire Denis]



[*Visual and Environmental Studies 285x (formerly *Visual and Environmental Studies 185x). Visual Fabrics: Film, Fashion and Material Culture: Seminar]