Course Announcement for the Academic Year 2010 – 2011

This announcement supersedes the 2009-2010 Course Announcement Bulletin. The Bulletin of the University should be referred to for general information and descriptions of courses not included in this booklet.

Only those courses offered during the academic year 2010-2011 are included in the listings of course offerings which follow. All departments have been requested, as appropriate, to have available for distribution to students upon request individual course descriptions which provide more details than can reasonably be carried in one booklet.

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).

University Calendar and Registration-Related Deadlines 2010–2011

Summer Session

- June 20: Sunday. Residence halls open.
- June 23: Wednesday. Last day to change courses. All students MUST be in their registered courses by Thursday, June 24.
- July 5: Monday. Independence Day holiday; no classes.
- July 6: Tuesday. Last day to change grade options.
- August 3: Wednesday through Friday. Reading period. Last day to drop a course.
- August 6: Friday. Summer Session ends.
- August 7: Saturday. Residence halls close.

Semester I, 2010-11

- August 1: Sunday. Last day for payment of charges.
- August 28: Saturday. New student orientation begins.
- August 31: Tuesday. New students register for first semester classes.
- September 1: Wednesday. First day of classes for the fall term. Opening Convocation: 4:00 pm.
- September 14: Tuesday. Last day to add a course without a fee. (5 pm deadline)
- September 28: Tuesday. Last day to add a course with a fee, change from audit to credit, or change a grade option declaration. (5 pm deadline)
- October 8: Friday. Mid-semester deadline. Last day to change from credit to audit in a course. (5 pm deadline) Last day to request a Course Performance Report. Deadline to confirm readmission for Semester II.
- October 11: Monday. Fall Weekend holiday. No University exercises.
- October 18 – October 29: Monday through Friday. Advising period for spring pre-registration. Students in their first through third semesters will need to procure their alternate PIN from their advisor in order to register.
- October 28: Thursday. Date by which sophomores entering their 5th semester must file their concentration declaration forms with the Registrar to avoid having a "No Concentration" hold placed against their Banner registration. (5 pm deadline)
- November 2 - 9: Tuesday through Tuesday. Registration for Semester II. No student will be permitted to register for his or her fifth semester unless a declaration of concentration has been filed.
- November 5: Friday. Deadline for submitting of proposals for undergraduate group study projects (GISPs) for Semester II.
- November 9: Tuesday. End of the pre-registration period. Last day for students planning to graduate in May to declare a second concentration. (5 pm deadline)

Semester II, 2010-11

- January 1: Saturday. Last day for payment of charges.
- January 17: Monday. Martin Luther King, Jr. holiday. No University exercises.
- January 25: Tuesday. New students register for the second semester.
- January 26: Wednesday. Second semester classes begin. Theses of candidates for Masters and Ph.D. degrees in May due. Deadline to declare a leave for Semester II.
- February 8: Tuesday. Last day to add a course without a fee. (5 pm deadline)
- February 19-22: Saturday through Tuesday. Long weekend. No University exercises.
- February 23: Wednesday. Last day to add a course with a fee, change from audit to credit, or change a grade option declaration. (5 pm deadline)
- March 11: Friday. Mid-semester deadline. Last day to change from credit to audit in a course. (5 pm deadline) Last day to request a Course Performance Report.
- March 26-Apr 3: Saturday through Sunday. Spring recess.
- April 1: Friday. Deadline to confirm readmission for Semester I.
- April 4: Monday. Classes resume.
- April 4-15: Monday through Friday. Advising period for fall pre-registration. Students in their first through third semesters will need to procure their alternate PIN from their advisor in order to register.
- April 8: Friday. Deadline for submitting proposals for undergraduate group study projects (GISPs) for Semester I.
- April 14: Thursday. Date by which sophomores entering their 5th semester must file their concentration declaration forms with the Registrar to avoid having a "No Concentration" hold placed against their Banner registration. (5 pm deadline)
- April 19-26: Tuesday through Tuesday. Registration for Semester I, 2011-12. No student will be permitted to register for his or her fifth semester unless a declaration of concentration has been filed.
- April 26: Tuesday. End of the pre-registration period. Last day for students in their 7th semester to declare a second concentration. (5 pm deadline)
- April 29 - May 10: Friday through Tuesday. Reading Period (optional and at the discretion of the instructor).
- April 29: Friday. Theses of candidates for Masters and Ph.D. degrees in May due. Deadline to declare a leave for
May 29 Sunday. Commencement.

May 11-20

Wednesday through Friday. Final Examination Period.

May 29 Sunday. Commencement.

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Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
Academic Regulations

For the full text on the Academic Regulations and Instructions for Registration, see the Registrar’s Office web site at:
http://www.brown.edu/Administration/Registrar/guidelines/index.html

For a tutorial on registration, see:
http://www.brown.edu/CIS/Training/onlinetraining/index.php

To access the Catalog or Schedule in Banner, see:
http://selfservice.brown.edu/menu

Course Credit: The semester course is the unit of credit. This is defined as a course taken for the duration of one semester and, for purposes of evaluation, may be considered the approximate equivalent of four semester hours.

Maximum Course Load and Audits: A degree candidate who is paying full tuition and is enrolled for credit in fewer than five courses may be permitted to audit additional courses in any semester without charge. The total number of course registrations plus audits may not exceed five credits per semester, or two credits in the summer.

Repeated Courses: Unless specifically mentioned as an exception in this announcement, any course already completed for credit (either at Brown or through transfer credit) may not be repeated.

Final Examination Schedule - 2010-2011

A period at the close of each semester (eight days for Semester I and nine days for Semester II) is provided for final examinations for those courses for which such an examination is scheduled. Two examination periods are held each day. The examination group for each course is indicated by the figure in parentheses following the meeting time for each course.

The schedule for final examinations for the academic year 2010-2011 is as follows:

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EXAM EXCUSES: The Dean of the College Office is solely responsible for determining whether a student’s absence from a final examination is excused. To ensure equitable treatment of all students, students are excused from exams only for family or medical emergencies or for religious reasons. Please note that students’ travel plans are never an excuse for missing a final exam. Faculty wishing to grant a student an exam excuse may contact Dean Stephen Lassonde or Dean Kathleen McSharry, the deans authorized to grant exam excuses. In emergency situations, students who are unable to contact their professors must contact Dean Lassonde or Dean McSharry, who will determine whether or not an exam excuse is warranted. Course instructors are notified of exam excuses granted by the Dean of the College Office. Consistent with Brown’s policy on nondiscrimination, students who are unable to take a final examination due to religious observance may arrange to take their final at an alternate time. Consultation is required with the course instructor, the Chaplain’s Office, and the Office of the Registrar, and the arrangements must be made by mid-semester. Students may obtain more information and an application for rescheduling a final due to religious observance from the Registrar’s Office.

Make-up exams for approved exam excuses are administered by the Registrar in the second week of the subsequent fall or spring term. The Registrar’s Office informs students by email of the date, time, and location of make-up exams.

COURSE REGISTRATION IN BANNER:

Glossary of terms:
CATALOG: the record of all courses that are approved to be taught at Brown. Course descriptions appear at the Catalog level.
SCHEDULE: the record of course offerings (sections, labs, conferences, etc.) being offered in any given semester and the level at which students register. The course description is accessible from the Schedule record.
CRN: Course Reference Number, a unique number for each section which can be used to register for the course.

COURSE DEPARTMENT: A full list of department codes may be found at the end of this introduction and at http://brown.edu/web/intranet/banner/course_codes.html

COURSE NUMBERS: Courses that are primarily for undergraduates are numbered under 1000; courses for Undergraduate and Graduates are numbered 1000 to 1999; courses primarily for Graduate students are numbered 2000 – 2999; and courses for Medical students are numbered 3000 and above.

LIMITED ENROLLMENT COURSES: The following principles, recommended by the College Curriculum Council, govern registration in limited enrollment courses numbered 1-1999.

In order to ensure quality teaching and create an environment conducive to learning, many courses have enrollment limits and/or other registration parameters (e.g. concentrators only; freshmen only). Students attempting to enroll in a limited course will be allowed to register online only if they meet all of the parameters and space is available in the course. Once classes have begun, priority will be given to students who have pre-registered for the course, who meet the posted admission criteria, and who attend the first class meeting. Students who have permission for a limited enrollment course must attend the first three class meetings (or the first two meetings of once-weekly seminars); otherwise, they forfeit any claim to a place in that course. Students who decide against taking the course are asked to drop it immediately to open a space for others who wish to add the course.

If the enrollment limit in a course has been reached and the course is therefore closed to registration, the instructor may grant a registration override which will allow the student to register.

REGISTRATION RESTRICTION OVERRIDE: Students whose registration is blocked by a registration restriction (enrollment limit; class restriction; pre-requisite requirement, etc.) must obtain a registration override. There are two ways of obtaining the override. First, the instructor may provide the student with a pre-printed Registration Override Code which the student will then enter into the Add Registration Override Code area of Banner. Once the Code is correctly entered, the student will be able to add the course by clicking the Add to Worksheet button and submitting changes. Alternately, the instructor can enter the student’s Banner ID into a special online form. Once the override is entered, the student will be able to add the course. It is important to note that the instructor’s entering of the override only allows for the student to register online; it does not in itself register the student for the course. The student must still add the course themselves once the override has been entered.

NOTE: Starting the third week of classes, the student must add the course using a drop/add form submitted to the Office of the Registrar. The instructor’s online entering of the override or signature on the add form is still required during that period.

CROSS-LISTED COURSES: Many departments cross-list courses taught outside the department that may be of interest to concentrators in the department. Cross-listed courses may be found in the course Announcement and in the Banner Schedule either in the body of the department’s course listing or at the end of the department’s section.

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
under the course number “XLIST”.

NOTE: Cross-listed courses included in the body of the department’s course listing (known as “secondary cross-listings”) are not open for registration and are intended only to refer to the primary cross-listing in the other department. Interested students should and can register only for the primary listing.

FRESHMEN and SOPHOMORES – ALTERNATE PIN REQUIRED: Students in their first through third semester, including incoming first-year students, need an advising PIN (personal identification number) in order to register. Your advisor will give this to you after you meet to discuss your academic plans. Be sure to keep track of this PIN since you will need it to make any changes to your registration.

YEAR COURSE: A year course is one in which both halves must be passed in order to get credit for the entire year. The grade at the end of the first semester is normally a temporary one. Neither semester may be elected independently without special permission. The final grade submitted at the end of the course covers the work of the entire year and is recorded as the final grade for both semesters. It is normally expected that the second half of a year course will be completed in the second semester of the same academic year in which the first half was taken. If the second half of the year course is not completed at the end of that academic year, the grade for the first semester will become a No Credit. If the student completes the second part of the year course during a later academic year, he or she may need to notify the Registrar’s Office, in order to reactivate the first part of the course.

In registering for the second half of a year course, students must register for credit if the first half was taken for credit. Similarly, if registered for audit in the first half, the second half of the course registration must also be as an audit. Exceptions must be approved by both the academic department and the Committee on Academic Standing.

EXAM GROUP: The number in parentheses that follows the meeting time designates the examination group assigned to the section. The date and time for each numbered exam group can be found in the table above (FINAL EXAMINATION SCHEDULE). Every course has an assigned examination time although not every course has an exam at that time.

S/NC -- This notation will appear as part of the course description for those courses which have been restricted by the instructor to the grade option of Satisfactory/No Credit. For all other courses, the student has the choice of option: A,B,C/NC or S/NC.

ARR. -- Arranged. This can be for either the recitation group or the final examination group. The intent is that a time is set which is mutually agreeable to the instructor and the students.

MEETING CODE -- The course code consisting of up to twelve characters, including a section number, is listed for each course following the course description. It is to be used by students in registering for or changing course enrollments.

S01, S02, etc. -- Section. In general this involves grading units for the course and may include a division of the course enrollment into smaller numbers to facilitate opportunities for discussion. When registering for a course, a student must indicate a section number as part of the meeting code. All courses have at least one section.

C01, C02, etc. -- Conference. Generally an auxiliary meeting such as a discussion group or a problem-solving session. Attendance at conferences may be required.

L01, L02, etc. -- Laboratory.

F01, F02 -- Filming or screening.

NOTE: Students should register for ALL meeting types of a course. In most cases, the course description will indicate that there are other meeting types for which the student should register in addition to the section. Details about the other meetings, their times, etc., can be found in the Banner Schedule.

DECLARATION OF CONCENTRATION: By faculty rule, students in their fourth semester must have declared a concentration before they can register for their fifth. Students in their fourth semester or above who have not declared a concentration will have a hold placed on their Banner registration. They will not be allowed to register until a concentration declaration has been filed in J. Walter Wilson Hall, Room 319, and the hold has been removed. Failure to file a concentration declaration until after a pre-registration deadline will not exempt a student from being charged the late pre-registration fee. Students transferring to Brown at the beginning of their junior year will have until the November pre-registration period to file a concentration.

The list of undergraduate concentrations with full descriptions can be found at the back of this Course Announcement and on-line on the Office of the Registrar website (http://www.brown.edu/Administration/Registrar/concentration.html).

Changes to registration:

THE SEMESTER “WEEK”: Classes for each semester begin on a Wednesday. Therefore, with regard to registration deadlines expressed in terms of weeks in the semester, the week is considered as beginning on a Wednesday and ending on a Tuesday.

ADDING A COURSE: Courses may be added online during the two pre-registration periods and during the first two weeks of each semester. Starting the third week of each semester, courses can only be added using a drop/add form that must be signed by the instructor and submitted by the student to the Office of the Registrar. Courses may not be added after the fourth week.

REGISTRATION FEES:

Late Pre-Registration Fee: Students who fail to pre-register by the conclusion of the pre-registration period will have a registration hold placed on their record. When registration opens again at the start of the semester, the student will have to contact the Office of the Registrar to have the hold lifted. A $15 late pre-registration fee will be charged to the student account at that time.

Late Add Fee: A course change fee of $15 will be charged to the student account for each course added after the second week of the semester unless the lateness of the add is attributable directly to University action.

DROPPING A COURSE: A course may be dropped online during the pre-registration period and at any time during the semester until the last day of classes. There is no fee for dropping a course.

CHANGE OF GRADE OPTION: Students may change a grade option online at any time during the pre-registration period and from the first day of classes to the end of the fourth week of the semester. Changes in grade options are not permitted after the fourth week of the semester. Students adding courses, with the permission of the Committee on Academic Standing, after the fourth week do not have a choice of grade option. They must take the course on an ABC/NC basis unless the grading is mandatory S/NC or unless they were previously registered for the course with an S/NC grade option.

COURSE REGISTRATION AND TUITION REGULATIONS: Tuition regulations currently in effect provide that payment of the annual tuition entitles degree candidates to full-time enrollment, which is defined as registration for 3, 4 or 5 courses per semester. This means that at no time may a student’s official registration for courses drop below three without a dean’s permission for part-time status and that at no time may the official course registration (including audits) exceed five. The minimum enrollment or tuition requirement is eight semesters or the equivalent for the baccalaureate degree. The minimum enrollment or tuition requirement for the program leading to the combined degrees of AB-ScB is ten semesters of tuition credit. For the complete text on the enrollment or tuition requirement, see the Registrar’s Office web site.

ADDITIONAL SEMESTERS: Except for students enrolled in the five year combined AB-ScB program, undergraduates must obtain special permission from a dean for a ninth semester. For a tenth semester the
student must petition the Committee on Academic Standing.

SUMMER COURSES: The University sponsors a formal program of summer study for Brown students. Among the many advantages offered by summer courses at Brown are: the luxury of small classes with some of Brown's best faculty and expert visiting faculty; a curriculum that includes innovative courses presently available only in the Summer Session; the opportunity to devote concentrated attention to one subject; and the availability of small sections of courses that are typically over-enrolled during the academic year.

In addition, Brown undergraduates can find summer courses helpful either to maintain progress towards their degree or to accelerate their degrees (i.e. graduate in seven semesters) by earning four summer credits at Brown, thus saving approximately half of one semester's tuition charges. (Note that summer courses taken elsewhere cannot be used to accelerate.)

Summer courses are equivalent to courses offered at Brown during the fall and spring semesters. They are intensive, meeting a minimum of seven hours per week. Courses carry full credit for undergraduates enrolled at Brown, and as many as four of these courses may count toward the baccalaureate degree. Students are advised to read carefully the Guidelines and Regulations Concerning Summer Study to understand a number of special policies that apply to the Summer Session. The Guidelines and Summer Session catalog is available online at http://www.brown.edu/scs/. The Continuing Education staff is available for information and advice; students are urged to consult the staff with any questions concerning summer courses or policies.

GENERAL ACADEMIC REQUIREMENTS:

Undergraduate Degrees:

1. Quantity: the minimum number of course credits that must be successfully completed for an AB or ScB is 30; for the combined AB-ScB the minimum is 38; for the concurrent Bachelor's/Master's programs the minimum is 34.

2. Writing Requirement: Learning to write well is a developmental process that occurs over time. Brown students are therefore expected to work on their writing across the four years, in their general studies and the concentration. Students may begin to fulfill this expectation by taking at least one WRIT-designated course. WRIT courses engage students in the writing process: they require students to draft and revise papers based on feedback about their prose.

Every piece of written work that students submit to their course instructors at Brown should meet baseline standards for effective written communication. Students whose work does not meet these standards are referred to an associate dean of the College, who will assess the student's writing abilities and help the student work out a program to fulfill the requirement. This might entail taking an English course or completing work at the Writing Center. Some students may be urged to complete a writing course when they first study at Brown.

Such cases are determined on the basis of written work students submit for admission to Brown or during the summer prior to their arrival at Brown.

3. Concentration: All students must complete at least one concentration in order to graduate from Brown. Standard concentration requirements may be found at the back of this Course Announcement and on the Registrar's web site. Students also have the option to create a concentration program of their own design, with the approval of the College Curriculum Council. Students may register for a maximum of two concentrations; Brown does not offer minors.

Students are required to declare a concentration by the middle of their fourth semester of study.

4. Residence Requirement: Every candidate for a baccalaureate degree must be enrolled on campus for at least four semesters as a full-time student and must complete satisfactorily a minimum of fifteen courses at Brown, excluding courses taken on Brown approved programs abroad.

5. Tuition Requirement: The minimum enrollment or tuition requirement is eight semesters or the equivalent for the baccalaureate degree. The minimum enrollment or tuition requirement for the program leading to the combined degrees of AB–ScB is ten semesters of tuition credit.

For descriptions of advanced degree requirements, see the Registrar's Office web site at: http://www.brown.edu/Administration/Registrar/guidelines/index.html and the Graduate School web site at: http://gradschool.brown.edu/

Curricular Programs

Diversity Perspectives: Diversity Perspectives courses focus primarily or at least substantially on the knowledge and experience of groups that are underrepresented in traditional approaches to knowledge and learning. These courses examine the ways in which disciplines, histories, and paradigms of knowledge are reconfigured by the study of diversity-related intellectual questions.

Diversity Perspectives courses are designated “DVPS” at the end of course descriptions. They may be viewed in the Banner Class Schedule by choosing “Diversity Perspectives” in the Attribute Types section.

First Year Seminars: First-Year Seminars ensure close contact between first-year students and faculty members while simultaneously offering a rigorous introduction to the concepts and methods of a particular subject area or department. Seminars have few if any prerequisites and are offered in all areas of the curriculum, from anthropology to physics to literary arts. Students receive regular feedback on the work they produce for first-year seminars, and seminar faculty often serve as informal mentors for their students long after the class has ended.

First-Year Seminars are designated “FYS” at the end of course descriptions. A complete list of each semester’s seminars may be viewed in Banner’s Class Schedule by choosing “First-Year Seminars” in the Attribute Type section. Registration for first-year seminars takes place during the summer prior to students’ matriculation to Brown. Depending on availability, students may also add first-year seminars to their course schedules during pre-registration and shopping periods.

Liberal Learning Courses: Liberal Learning course list was created to assist students in undertaking a broad and coherent course of study consistent with the goals of a liberal education. These courses, which are an established part of the Brown curriculum, emphasize synthesis rather than survey and focus on methods, concepts, and values. Reflecting Brown’s conviction that liberal education requires active student involvement, Liberal Learning courses entail extensive student participation through papers, projects, reports, and class discussion.

Liberal Learning Courses are designated with “LILE” at the end of course descriptions. A complete list of each semester’s LILE courses may be viewed in Banner’s Class Schedule by choosing “Liberal Learning” in the Attribute Type section.

Writing-Designated Courses: Brown students are expected to work on writing in their general studies and in the concentration. Students may begin to fulfill this expectation by taking at least one Writing-designated course. Writing-designated courses engage students in the writing process by having them draft and revise papers based on feedback about their prose. Such courses are offered across the curriculum and help students develop the ability to write well in styles appropriate to different academic disciplines.

Writing-designated Courses are designated with “WRIT” at the end of course descriptions. A complete list of each semester’s WRIT courses may be viewed in Banner’s Class Schedule by choosing “Writing-Designated Courses” in the Attribute Types section.

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Diversity Perspectives

Fall

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
Africana Studies
AFRI1020B S01 15850 Freedm in Africana Polctl Thgt Barrymore Bogues
AFRI1060A S01 15933 Africa Since 1950 Nancy Jacobs

American Civilization
AMCV1611A S01 14860 20thC US Immigrant Ethnic Lit Richard Alan Meckel

American Sign Language
SIGN1910 S01 14272 Independent Study Arkady Belozovsky

Anthropology
ANTH3000 S01 14352 Culture and Health Sherine Hamdy
ANTH1124 S01 14463 United States Culture Nicholas Townsend
ANTH1224 S01 15992 Human Trafficking Kay Warren
ANTH1305 S01 15794 Medical Humanities Bianca Dahl

Classics
CLAS0820 S01 15506 Epics of India James Fitzgerald

Comparative Literature
COLT0810J S01 15527 Colonial/Postcolonial Marvelous Stephanie Merrim

English
ENGL0610E S01 14019 Postcolonial Literature Olakunle George
ENGL0610K S01 14049 20th-C Literatures in English E. Tamar Katz
ENGL0800B S01 15405 African Amer Lit and Slavery Rolland Murray
ENGL1710H S01 15420 Black Internslm + /Am Lit Rolland Murray
ENGL1710J S01 14029 Modern African Literature Olakunle George
ENGL1761R S01 15442 Non-Fiction of "Race" Daniel Kim

Hispanic Studies
HISP0730 S01 15369 Early/Contmp Wrtr of Span Amer Aldo Mazzucchelli

Latin American and Caribbean Studies
CROL0300 S01 13781 Advanced Intermediate Creole Patrick Sylvain

Modern Culture and Media
MCM0901B S01 15592 The Art of Failure Anna Fisher
MCM0901B F01 15593 The Art of Failure Anna Fisher

Music
MUSC0021B S01 15617 Reading Jazz Matthew McGarrell

Religious Studies
RELS0090B S01 15956 Hindu/Christ Modes of Devotion Donna Wulff
RELS0130 S01 13541 Hinduism Donna Wulff
RELS0150 S01 10730 Islam: Mohamed 9/11 + Beyond Nancy Khalek

Stavic Languages
SLAV1790 S01 15944 Eastern European Literature

Theatre Arts and Performance Studies
TAPS1610 S01 15971 Political Theatre of Americas Patricia Ybarra

Spring
Africana Studies
AFRI1050P S01 24013 Art and Civic Engagement Karen Allen Baxter
AFRI1150 S01 23527 Afro-Caribbean Philosophy Paget Henry

American Civilization
AMCV1610G S01 25471 Asian American History Robert George Lee
AMCV1901D S01 24053 Motherhood in Black and White Beverly Haviland

Anthropology
ANTH0066B S01 25550 Mythscapes William Simmons
ANTH0800 S01 23656 Intro to Linguistic Anthro

American Sign Language
SIGN1910 S01 24399 Introduction to Deaf Studies Arkady Belozovsky
SIGN1910 S01 24184 Independent Study Arkady Belozovsky

Center for Race and Ethnicity
ETHN1990A S01 25889 Latino Politics in the U.S. Anthony Affigne

Comparative Literature
COLT0810J S01 25320 Talemakers of Non-Western Wrld Lore Levy
COLT1811D S01 25328 Reading Revolution Esther Whitfield

Economics
ECON1420 S01 23638 Urbanization in China J. Vernon Henderson

Education
EDUC0410D S01 24334 Brown v. Board of Education Tracy Steffes
EDUC0410E S01 23505 Empowering Youth Deborah Rivas

Enlish
ENGL0200G S01 25179 Identity in African Amer Lit Sachelle Ford
ENGL0610D S01 25157 Intro to Asian American Lit Daniel Kim
ENGL1710I S01 25173 Harlem Renaissance Rolland Murray
ENGL1760B S01 25174 AF-Amer Lit + End of Identity Rolland Murray
ENGL1760T S01 23975 Literary Africa Olakunle George
ENGL1761S S01 25199 The Fifties in Color Daniel Kim
ENGL1900R S01 21824 Aesthetics and Sexuality Jacques Khalip

Environmental Studies
ENVS1550 S01 25898 Nature,Culture,Hist,Environmnt Kathryn DeMaster
ENVS1650 S01 25899 Sustenance and Sustainability Kathryn DeMaster

Gender and Sexuality Studies
GNSN0090C S01 23491 Reproductive Health Sarah Fox

Latin American and Caribbean Studies
CROL0300 S01 24074 Advanced Intermediate Creole Patrick Sylvain

Literary Arts
LITR1230J S01 20820 Writing: Material Differences John Cayley

Modern Culture and Media
MCM0901A S01 25404 Queerness, Race, Globalization Aniruddha Maitra
MCM0901A F01 25405 Queerness, Race, Globalization Aniruddha Maitra
MCM0901B S01 25413 Race and/as Technology Wendy Hui Kyong Chun
MCM0901B F01 25414 Race and/as Technology Wendy Hui Kyong Chun

Music
MUSC0021D S01 25428 Latino Diaspora Music

Religious Studies
RELS0080 S01 25375 Gender, Power, God(s) Ross Kraemer
RELS0105 S01 25527 Judaism Txt/Context (JUDS0010)
RELS0140 S01 23483 Religion in India Donna Wulff
RELS0910 S01 25800 Music,Drama,Religion in India Donna Wulff

Slavic Languages
SLAV1790 S01 15944 Eastern European Literature

Theatre Arts and Performance Studies
TAPS1610 S01 15971 Political Theatre of Americas Patricia Ybarra

First Year Seminars
Fall
Africana Studies
AFRI1010B S01 15934 The Last Professors Corey D. Walker

Ancient Western Asian Studies
AWAS0300 S01 15642 Babylon: Myth and Reality John Steele

Archaeology and the Ancient World
ARCH270 S01 14794 Troy: Archaeology of an Epic

Biology and Medicine
BIOL1900E S01 11430 Botanical Roots/Mod Medicines Fred Jackson
BIOL1900E L01 11431 Botanical Roots/Mod Medicines Fred Jackson
BIOL1900F S01 15857 Darwinian Medicine Marc Tatar

Center for Race and Ethnicity
ETHN0909A S01 15866 The Border/La Frontera Evelyn Hu-Dehart

Chemistry
CHEM0080A S01 12915 First Year Seminar- Energy Peter Weber
CHEM0080B S01 13735 Molecular Structures in Chem/Bio Paul Gregory
Williard

Bookstore Programs
Curricular Programs / 7

available in the Brown Course Scheduler as of July 1, 2010.
Curricular Programs / 9

Biology and Medicine
BIOL0190H S01 15588 Plants, Food, and People Peter Heywood
BIOL0380 S01 13636 Eco + Evo Infectious Disease Daniel Weinreich

Classics
CLASS020 S01 14330 The Greeks
CLASS0620 S01 15505 Greek Tragedy Jeri Debrohun
CLASS1120G S01 15507 The Idea of Self Joseph Michael Pucci

Cognitive, Linguistic, and Psychological Sciences
CLSP0030 S01 15671 Intro to Linguistic Theory Pauline Jacobson
CLSP0610 S01 15577 Nature of Cognitive Development David Sobel

Comparative Literature
COLT0810F S01 15526 Desire and the Marketplace Meera Sushila

Computer Science
CSCI0931 S01 14513 Intro to CS for Hum + Soc Sci Steven Reiss

English
ENGL0200F S01 15429 Reading Modernist Literature Katherine Miller
ENGL0400A S01 11418 Introduction to Shakespeare Coppelia Kahn
ENGL0450A S01 15400 Hawthorne and James Stuart Burrows
ENGL0450E S01 15846 Inventing America James Egan
ENGL0600E S01 14018 British Romanticism William Keach
ENGL0610K S01 14049 20th-C Literatures in English E. Tamar Katz
ENGL0650H S01 11419 Realism and Modernism Paul Armstrong
ENGL1360S S01 14053 Renaissance Ovid Coppelia Kahn
ENGL1360T S01 15996 Conrad and Naipaul Timothy R. Bewes
ENGL1760E S01 15421 Who's Afraid of Virginia Woolf Ravit
ENGL1761T S01 15439 Eco-Shakespeare Jean Feerick
ENGL1761R S01 15442 Non-Fiction of "Race" Daniel Kim
ENGL1761P S01 15996 Yeats, Pound, Eliot Mutlu Konuk Blasing
ENGL1760V S01 25175 Lying, Cheating, and Stealing Ravit Reichman
ENGL1561H S01 25197 The Brain and the Book Vanessa Ryan
ENGL1561G S01 25196 Swift, Pope, Johnson Melinda Alliker Rabb
ENGL1561F S01 25195 Sacred Readings, Victorian Literature George Landow
ENGL1561D S01 25194 The Romantics, Romanticism Kathlyn DeMaster
ENGL1561C S01 25193 Shakespeare, Donne, Milton Coppelia Kahn
ENGL1560Y S01 23516 Ethics of Romanticism Jacques Khalip

Hispanic Studies
HISP0730 S01 15369 Early/Contmp Wrtr of Span Amer Aldo Mazzucchelli

History of Art and Architecture
HIAA0050C S01 15557 Illustrating Knowledge Evelyn Lincoln

Italian Studies
ITAL0751 S01 13592 Machiavelli in Intl Context Caroline Castiglione

Modern Culture and Media
MCM100 S01 11299 Intro to Modern Culture + Media Wendy Hui

Music
MUSC0021B S01 15674 Reading Jazz Matthew McCarroll
MUSC0200 S01 15910 Computers and Music Todd Winkler

Religious Studies
REL0006B S01 15956 Hindu/Christ Modes of Devotion Donna Wulf
REL0090E S01 14223 Faith and Violence Michael Satlow
REL0130 S01 13541 Hinduism Donna Wulf
REL0150 S01 10730 Islam: Mohamed 9/11 + Beyond Nancy Khalek
REL0260 S01 14224 Religion Gone Wild Madis
REL0400 S01 13541 New Testament/Begin of Christinity Ross Kraemer
REL1000 S01 13532 Methods in Religious Studies Thomas Lewis

Science and Society
SCSO1400 S01 13688 Sci + Soc: Theories/Controversies Sherine Hamdy

Slavic Languages
SLAV1790 S01 15944 Eastern European Literature

Spring
Africana Studies
AFRI1050P S01 24013 Art and Civic Engagement Karen Allen Baxter
AFRI1150 S01 23527 Afro-Caribbean Philosophy Paget Henry

Anthropology
ANTH0800 S01 23565 Intro to Linguistic Anthro
ANTH1151 S01 25771 Ethnographies Muslim Mid East Sherine Hamdy

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
Writing Designated

Fall

Africana Studies
AFRI0600 S01 14409 Race, Gender, + Urban Politics Keisha-Khan Perry
AFRI1110 S01 12832 Voices Beneath the Veil Elmo Terry-Morgan

American Civilization
AMCV0190A S01 15645 Selling Love, Selling Sex Elizabeth Burbank-
AMCV0190T S01 15646 Early Amer Houses/Furnishings Robert Emlen
AMCV0190B S01 15655 Henry James Goes to the Movies Beverly Emlen
AMCV0190V S01 15647 Reading Cities: LA, NY, Manila Sarah Fine
AMCV1250F S01 15648 Furniture/Art/Design Qualities Stephen Gilb

Anthropology
ANTH1224 S01 15992 Human Trafficking Kay Warren

Center for Race and Ethnicity
ETHN0090A S01 15686 The Border/La Frontera Evelyn Hu-Dehr

Classics
CLAS0620 S01 15505 Greek Tragedy Jeri Debrohun
CLAS1120G S01 15507 The Idea of Self Joseph Michael Pucci

Cognitive, Linguistic, and Psychological Sciences
CLPS0020 S01 15670 Intro to Cognitive Science Sheila Blumstein

Community Health
PHP1070 S01 12646 Brdn of Disease in Devel Cntry Stephen McGarvey

Comparative Literature
COLT0710L S01 15524 New Worlds Stephanie Merrim
COLT0710J S01 15527 Colonial/Potocolonial Marvelous Stephanie Merrim

East Asian Studies
EAST0950A S01 15547 Turning Japanese Kerry Smith

Education
EDUC0400 S01 10923 Amer College/University-1960's Luther Spoehr
EDUC1130 S01 13728 Economics of Education I John Tyler
EDUC1140 S01 13729 Psych of Race, Class + Gender I
EDUC1740 S01 15724 Academic Freedom on Trial Luther Spoehr
EDUC1850 S01 15775 Moral Development + Education Jin Li

Engineering
ENGG1930G S01 12116 Entrepreneurship I Eric Suuberg

English
ENGL0250F S01 14014 Shakespeare's Present Tense Stephen Merriam Foley
ENGL0400A S01 11418 Introduction to Shakespeare Coppelia Kahn
ENGL0400A C01 11486 Introduction to Shakespeare
ENGL0400A C02 11487 Introduction to Shakespeare
ENGL0400A C03 11488 Introduction to Shakespeare
ENGL0450A S01 15400 Hawthorne and James Stuart Burrows
ENGL0450E S01 15846 American Poetics/Gender Identity James Edgar
ENGL0600E S01 14018 British Romanticism William Keach
ENGL1310B S01 15411 American Degenerates James Edgar
ENGL1310B C01 15413 American Degenerates
ENGL1310B C02 15414 American Degenerates
ENGL1310B C03 15415 American Degenerates
ENGL1360S S01 14053 Renaissance Ovid Coppelia Kahn

Environmental Studies
ENV0345S S01 14255 Coastal Ecology + Conservation Mark Bertness
ENV0409S S01 15718 Environmental Sci-Chngwrld Stephen Porder

Gender and Sexuality Studies
GNSS0090B S01 15390 Bodies out of Bounds Gail Cohee
GNSS1960B S01 14187 Health/Healing in US History Deborah Weinstein

Geological Sciences
GEOG0160F S01 14279 Patterns: in Nature, in Society Reid Cooper
GEOG0160G S01 15729 Energy Resources James Hirth
GEOG0160L S01 15929 Diamonds Stephen Parman
GEOG1110 S01 14282 Estuarine Oceanography Warren Prell
GEOG1130 S01 15930 Ocean Biogeochemical Cycles Timothy Herbert
GEOG1240 S01 12494 Stratigraphy and Sedimentation James Russell

German Studies
GRMN0500F S01 15635 German Culture 1945 to Present Carol Jean Poore
GRMN1090 S01 11370 Adv Written and Spoken German Carol Jean Poore
GRMN1340M S01 15954 Kafka's Writing Zachary Sn

Hispanic Studies
HISP0730 S01 15369 Early/Contmp Wrtr of Span Amer Aldo Mazzucchelli
HISP0740 S01 12115 Intensive Survey of Spanish Lit Mercedes Vaquero

History
HIST1220 S01 15482 Eur Intell/Cult Hist:1880-1914 Mary Gluck

History and Art Architecture
HIAA0050C S01 15557 Illustrating Knowledge Evelyn Lincoln
HIAA1650D S01 15560 Materialities, Perils Grand Tour K. Dian Kriz

International Relations
INTL1910 S01 10563 Senior Honors Seminar Claudia Jean Elliott

Italian Studies
ITAL0580 S01 15389 Word, Image, Power Ren. Italy Caroline Castiglione
ITAL1075 S01 13592 Machiavelli in Intl Context Caroline Castiglione
ITAL1010 S01 10688 Dante in English Translation Ronald Martinez
ITAL1550 S01 15387 Italian Representatn Holocaust Suzanne Stewart-Steinberg

Judaic Studies
JUDS0630 S01 14060 Believers, Agnostics, Atheists David Jacobson
JUDS0630 S01 15666 Holocaust Literature David Jacobson
JUDS0530 S01 15667 Judaism, Christianity + Bible Michael Satlow
JUDS0610 S01 15669 American Jewish History Maud Mandel
JUDS0980U S01 15683 History of Hasidism
JUDS1400 S01 15684 The Archaeology of Palestine Katharina Galor

Literary Arts
LITR0110A S01 10626 Fiction I
LITR0110A S02 10627 Fiction I
LITR0110A S03 10628 Fiction I
LITR0110B S01 10630 Poetry I
LITR0110B S03 14100 Poetry I
LITR0201A S01 10645 Fiction Writing II
LITR0201A S02 15709 Fiction Writing II Joanna Howard
LITR0201B S01 14419 Poetry Writing II
LITR0201D S01 10646 Electronic Writing II Ian Hatcher
LITR0410L S01 10647 Electronic Writing II Ian Hatcher
LITR0710 S01 13103 Writers on Writing Seminar Annette Gladman
LITR0710 S02 15710 Writers on Writing Seminar Joanna Howard
LITR1010A S01 10648 Advanced Fiction Thaila Field
LITR1010A S02 10649 Advanced Fiction Meredith Steinbach
LITR1010A S03 15975 Advanced Fiction John Edgar Wideman
LITR1010B S01 15655 Advanced Poetry Michael Harper
LITR1010B S02 13629 Advanced Electronic Writing John Cayley
LITR1010E S01 15711 Advanced Screenwriting Aisah Rahaman
LITR1010F S01 15712 Advanced Translation Bernard Waldrop
LITR1010G S01 13628 Cave Writing John Cayley
LITR1110L S01 14102 Aspects Contemp Prose Practice Ama Ata Aidoo
LITR1110S S01 14104 Fiction into Film Meredith Steinbach
LITR1110S F01 14730 Fiction into Film Gail Cohee
LITR1150F S01 10930 Home and Abroad George Lamming
LITR1150S S01 15713 What Moves at the Margins Aisah Rahaman
LITR1150V S01 15717 The Novel in Brief Annette Gladman
Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
Africana Studies

(Primarily for Undergraduates)

0090 An Introduction to Africana Studies
This course introduces students to the vibrant and contested field of Africana Studies by critically exploring and analyzing the links and disjunctures in the cultural, political, and intellectual practices and experiences of people of African descent throughout the African diaspora. Beginning with a critical overview of the history, theoretical orientations, and multiple methodological strategies of the discipline, the course is divided into three thematic units that examine intellectual, political, and social changes; identity construction and formation; and literary, cultural, and aesthetic theories and practices in the African diaspora. DVPS LILE

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
0710 Topics in Africana Studies

0710A Racial and Gender Politics in Contemporary Brazil
Brazili is commonly understood as an example of a "racially democratic" nation, but as scholars have recently shown, racism permeates all aspects of Brazilian society. This course traces the development of the theorization of race, racial identity and race relations in contemporary Brazil. The approach of the course will be interdisciplinary, drawing upon works from anthropology, literature, history, music, and film. Topics will include colonialism and enslavement, nationalism, social activism, and nation. Particular attention will be placed on the interrelationship between race, gender, class, and nation. WRIT

Spr AFRI0710A S01 21777 TTh 9:00-10:20(08) (K. Perry)

0710B Ethics of Black Power
In his now classic text Blood in My Eye, George Jackson writes "All revolution should be love inspired". This course will plumb the depths of Jackson's remark by critically interrogating the ethical dimensions of the Black Power concept and the cultural, ideological, and political interventions influenced by the conceptual revolution. We will assess the ethical parameters of the various ideological tendencies that influenced the conceptual formulation and political articulation of Black Power including Black Nationalism, Feminism, Liberalism, Marxism, Leninism-Maoism and Pan-Africanism.

Spr AFRI0710B S01 24010 MWF 11:00-11:50(04) (C. Walker)

0760 Topics in Africana Studies

0760B Reggae, Rastafari and Revolution
Bob Marley in the song Revolution declares, "Revolution Reveals." Beginning from this frame this course will examine the history of Rastafari since it was formed in the late 1930s as an Afro-Caribbean religious practice. It will examine how the emergence of reggae music in Jamaica in the late 1960s mixed and then became one central ingredient of what has been called "conscious music" in the period of the flowering of anti-colonial and black radicalism in the 20th century. The course will explore how reggae music became a form of subaltern language rethinking questions of nation and history in the Caribbean and Africa.

Spr AFRI0760B S01 25779 TTh 9:00-10:20(11) (B. Bogues)

0800B African American Literature and the Legacy of Slavery

0800B African American Literature and the Legacy of Slavery (ENGL 8000B)
Interested students must register for ENGL 8000B S01 (CRN 15405).

0901A Unruly Crossings: Queerness, Race and Globalization

0901A Unruly Crossings: Queerness, Race and Globalization (MCM 901A)
Interested students must register for MCM 9001A S01 (CRN 25404).

0950 History, Literature and the Caribbean Novel
This course examines the ways in which literature is influenced by major historical events with special reference to the literatures of the Caribbean. Students will undertake a critical examination of the fictional representation of Europe's encounter with Africa and Asia in the Americas.

Fall AFRI0950 S01 14410 M 3:00-5:20(13) (G. Lamming)

0990 Black Lavender: Black Gay/Lesbian Plays/Dramatic Constructions in the American Theatre
An interdisciplinary approach to the study of plays that address the identities and issues of black gay men and lesbians and offers various perspectives from within and without the black gay and lesbian artistic communities. Focuses on analysis of unpublished titles. Also includes published works by Baraka, Bullins, Corbett, Gibson, Holmes, West, and Pomo Afro Homos. Some evening screenings of videotapes. Enrollment limited to 40. WRIT DVPS

Fall AFRI1000 S01 18905 M 3:00-5:20(13) (E. Terry-Morgan)

Fall AFRI1090 S01 14410 M 3:00-5:20(13) (G. Lamming)

Fall AFRI1105A S01 21771 Th 4:00-6:20(16) (K. Perry)

1020 Special Topics in Africana Studies

1020B Freedom in Africana Political Thought
This course will be a comparative analysis of freedom as a central value in political thought. It will do this by comparing the knowledge and practices of freedom to slaves in the Haitian Revolution, the ideas of freedom in the Civil Rights Movement, and then finally, the conceptions of freedom in South Africa. Enrollment limited to 30. DVPS

Spr AFRI1020B S01 15850 M 3:00-5:20(13) (B. Bogues)

1020C The Afro-Luso-Brazilian Triangle
Examines three historical components of the South Atlantic in terms of history, culture, and contemporary political and economic consequences. European colonialism in Africa and Brazil constitutes the baseline for this exploration, but the long and tardy nature of Portuguese colonialism in Africa in comparison with other European colonial powers, especially in its post-World War II manifestations, is our starting point. DVPS

Spr AFRI1020C S01 21770 Th 4:00-6:20(16) (A. Dzidzienyo)

1020D Race, Rights, Rebellion
Provides an in-depth examination of different kinds of social movements. Emphasis will be placed on the theoretical and methodological distinctions among the various kinds of social protests and social movement actors. From anti-slavery revolts to struggles for independence to anti-apartheid movements, key concepts will include power, resistance, subaltern, hegemony, identity politics and consciousness.

Spr AFRI1020D S01 25780 Th 4:00-6:20(16) (K. Perry)

1050 Seminar in Africana Studies

1050A Advanced RPM Playwriting
Third level of RPM Playwriting; for students that have successfully completed RPM Playwriting and Intermediate RPM Playwriting (workshop). Instructor's permission required.

Fall AFRI1050A S01 12824 Th 4:00-6:20(13) (E. Terry-Morgan)
Spr AFRI1050A S01 21771 Th 4:00-6:20(16) (E. Terry-Morgan)

1050D Intermediate RPM Playwriting
Second level of RPM Playwriting; for students that want to continue developing their RPM plays or want to begin a new project (workshop). Instructor's permission required.

Fall AFRI1050D S01 12826 Th 4:00-6:20(13) (E. Terry-Morgan)
Spr AFRI1050D S01 21772 Th 4:00-6:20(16) (E. Terry-Morgan)

1050E RPM Playwriting
Research-to-Performance Method (RPM) Playwriting guides students through the process of developing new plays that are informed by scholarly research (workshop). Instructor's permission required. DVPS

Fall AFRI1050E S01 12829 Th 4:00-6:20(13) (E. Terry-Morgan)
Spr AFRI1050E S01 21773 Th 4:00-6:20(16) (E. Terry-Morgan)

1050G Narrating the Radical Self
How black women in the United States and elsewhere have written about their lives in autobiographies will be the focus of this course. We will discuss black women's use of autobiographical writing to document their own individual experiences in political movements as well as to...
provide key insights into how black people throughout the black diaspora have organized in recent history. Enrollment limited to 20.

Fall AFRI1050G S01 15582 Th 4:00-6:20(13) (K. Perry)

1050M Roots of African American Fiction: Oral Narrative through Richard Wright
This course will employ a variety of narrative forms -- oral folktales, WPA narratives, slave narratives, short stories by European and American writers -- will also investigate the multiple traditions of African American fiction.

Spr AFRI1050M S01 23852 W 3:00-5:20(14) (J. Wideman)

1050P Art and Civic Engagement: Creativity/Reality
The primary objective of this course is to learn about and reflect upon public art and communities. This course will use selected public art and artists’ ideologies as a framework for exploring culture, creativity, politics and practices and focus on the ways in which these public art works and artists’ responses to varied forms of internal and external operators and stimuli successfully and unsuccessfully give voice to aspects of the environment, history, culture, social justice, health, politics and the imagination. This course will also pay attention to arts organizations, government agencies, history, power relations, human resources as well as leadership and the political that continues to influence public modes of artistic production. DVPS LILE

Spr AFRI1050P S01 24013 M 3:00-5:20(13) (K. Baxter)

1060 Seminar in Africana Studies

1060A Africa Since 1950
This seminar offers a survey of post-colonial African history, while probing the challenges of writing post-colonial history. Readings and discussions will focus on histories that bridge the colonial and post-colonial periods. How robust are these periods? What can historians draw from post-colonial theory? How can historical narratives account for both the colonial legacy and post-colonial dynamism. Enrollment limited to 20; instructor permission required. Students with a background in African history or contemporary African social science will be given priority. Interested students should email the professor at Nancy_jacobs@brown.edu. DVPS

Fall AFRI1060A S01 15933 F 3:00-5:20(15) (N. Jacobs)

1060E West African Writers and Political Kingdom
Do West African writers have a role to play in the changing political landscape of their countries? An examination of the ways and means through which a select group of West African writers have dealt with issues that relate to the role of the state in the management of individual and group relations, the politics of gender, civil and military relations, and the construction of new forms of civil society. DVPS

Spr AFRI1060E S01 21774 W 3:00-5:20(14) (A. Dzidzienyo)

1060G Black Radical Tradition
This advanced seminar in Africana philosophy will explore the contours of insurgent forms of Africana social and political philosophy. With a temporal focus on the twentieth century, we will concern ourselves with explicating the dominant themes, theoretical orientations, and methodological understandings that in/form constructions and articulations of the varieties of Africana feminism/womanism, black nationalism, Marxism-Leninism-Maoism, Pan-Africanism, and radical democracy. Enrollment limited to 20.

Spr AFRI1060G S01 25399 M 3:00-5:20(13) (C. Walker)

1060L Varieties of American Philosophical Experience
In contrast to Pragmatist and European-oriented views of American philosophy, this course will emphasize the colonial dimensions and features of American philosophy that emerged out of the colonial soil of early America. Out of this soil sprang extended debates between Native Americans, Euro-Americans and African Americans over the legitimacy of the hegemony that Euro-Americans were establishing over increasing portions of North America. This course views American philosophy as having within it two opposing traditions that have been engaged in ongoing angry dialogues: the dominant or Prospereran tradition of Euro-Americans and the subjigated or Caliban tradition of Native Americans and African Americans.

Fall AFRI1060L S01 13758 MWF 2:00-2:50(07) (P. Henry)

1060R Comparative Africana Literatures and Criticism
Caribbean, African American and African literature has been called engaged literature with explicit commitments to memory, history and ways to think about the political. This course will explore a set of writers, their novels, critical essays and their practices of criticism. It will examine anti-colonial, post-colonial writers as well as African American writers who in the words of Toni Morrison, “rip that veil drawn over proceedings to terrible to relate.” We will in this course read the works of George Lamming, Patrick Chamoiseau, Toni Morrison, Richard Wright, Edwidge Danticat, Yvonne Vera, Zoe Wicomb and Njabulo Ndebele.

Fall AFRI1060R S01 15935 Th 4:00-6:20(13) (B. Bogues)

1090 Black Freedom Struggle Since 1945
Examines the extended history of the Civil Rights Movement in the U.S. with a range of primary sources. Starting at World War II, the course considers the roles of the courts, the government, organizations, local communities, and individuals in the ongoing struggle for African American equality, focusing on African American agency. Sources include photographs, documentaries, movies, letters, speeches, autobiography, and secondary readings. Must have taken at least one post-1865 U.S. history course demonstrating a foundation in this time period. Enrollment limited to 50.

Fall AFRI1090 S01 16038 TTh 1:00-2:20(10) (F. Hamlin)

1110 Voices Beneath the Veil
Thirty plays, written by Afro-American playwrights and presented on the American stage between 1858 and the 1990s, are examined as cultural and historical documents of Afro-American realities. Supplementary readings from the humanities and social sciences provide critical framework for in-class discussions and student papers. Enrollment limited to 40. Instructor permission required. WRIT DVPS

Fall AFRI1110 S01 12832 TTh 10:30-11:50(09) (E. Terry-Morgan)

1110L Aspects of Contemporary Prose Practice (LITR 1110L)
Interested students must register for LITR 1110L S01 (CRN 14102).

1150 Afro-Caribbean Philosophy
An introduction to the field of Afro-Caribbean philosophy. The first half focuses on the history of the field, identifying its African background and surveying some of its major schools, such as the Afro-Christians, the poeticians, the historicists, and existentialists. The second half consists of a more intensive comparative focus on the ontologies and epistemologies of two of these schools. DVPS LILE

Spr AFRI1150 S01 23527 TTH 10:30-11:50(09) (P. Henry)

1150F Home and Abroad (LITR 1150F)
Interested students must register for LITR 1150F S01 (CRN 10930).

1210 Afro-Brazilians and the Brazilian Polity
Explores the history and present-day conditions of Afro-Brazilians, looking specifically at the uses of Africana in contemporary Brazil, political and cultural movements among Afro-Brazilians, domestic politics and its external dimensions, and Brazilian race relations within a global comparative framework. Texts from a variety of disciplines. A reading knowledge of Portuguese is not required but students so advantaged should inform the instructor. DVPS

Fall AFRI1210 S01 12833 W 3:00-5:20(14) (A. Dzidzienyo)

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
1260 The Organizing Tradition of the Southern Civil Rights Movement
This seminar aims to fill in some of the gaps of the official canon by emphasizing that the modern (1954-1966) southern civil rights movement was not as it is mainly portrayed, a movement of mass protest in public spaces led by charismatic leaders; but rather, a movement of grassroots community organizing - quiet day-to-day work.
Spr AFRI1260 S01 23294 T 4:00-6:20(16) (C. Cobb)

1280 Writing About Race in the Post Civil Rights Era
This seminar is an explanation of the transformation of racial policies, relations and rhetorics since the end of the civil rights era in the United States. We will examine the complex ways race has remained central to US society and yet has dramatically shifted- examining terms such as: color-blind society; integration; political race, racialized (and gendered) community formation. Enrollment limited to 20. Instructor's permission required.
Fall AFRI1280 S01 14072 W 3:00-5:20(14) (P. Rose)

1360 Africana Studies: Knowledge, Texts and Methodology
This course will explore the issues of Africana Studies as a discipline by engaging in a series of critical readings of the central texts, which laid the protocols of the discipline. The course will also raise issues of knowledge production and methodologies. This course is a senior capstone seminar. Open to all senior Africana Studies concentrators; others by instructor permission only. DVPS LILE
Spr AFRI1360 S01 21775 W 3:00-5:20(14) (B. Bagues)

1580 Contemporary African Women's Literature
The aim of the course is to introduce students to novels like Head's A Question of Power, El Saadawi's God Dies by the Nile, Achebe's Half of a Yellow Sun and other major prose works by contemporary African women writers. It will present the African woman as a writer, her environment and her commitments. The emphasis is on the writing of continental African women, but will include works of other women writers. For a brief but necessary historical background to the course, it will be introduced with selections from Margaret Busby's Daughters of Africa. Enrollment limited to 25. DVPS LILE
Fall AFRI1580 S01 12836 M 3:00-5:20(13) (A. Aidoo)

1710H Black Internationalism and African American Literature (ENGL 1710H)
Interested students must register for ENGL 1710H S01 (CRN 15420).

1710I Harlem Renaissance: The Politics of Culture (ENGL 1710I)
Interested students must register for ENGL 1710I S01 (CRN 25173).

1710J Modern African Literature (ENGL 1710J)
Interested students must register for ENGL 1710J S01 (CRN 14029).

1760B Contemporary African American Literature and the End(s) of Identity (ENGL 1760B)
Interested students must register for ENGL 1760B S01 (CRN 25174).

1760T Literary Africa (ENGL 1760T)
Interested students must register for ENGL 1760T S01 (CRN 23975).

1900T The Postcolonial and the Postmodern (ENGL 1900T)
Interested students must register for ENGL 1900T S01 (CRN 25200).

1965 Social Change in the 1960s (HIST 1965)
Interested students must register for HIST 1965 S01 (CRN 25297).

1970 Independent Reading and Research
Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course.

Fall: Spr

2110 Anthropological Theories in Africa (ANTH 2110)
Interested students must register for ANTH 2110 S01 (CRN 15764).

2970C Rethinking the Civil Rights Movement (HIST 2970C)
Interested students must register for HIST 2970C S01 (CRN 15492).

American Civilization

(Primarily for Undergraduates)

0150 First Year Seminar
Enrollment limited to 20 first year students. WRIT

0150J The Boy Problem
Focusing on the beginning, middle, and especially concluding decades of the 20th century, this course examines the ways in which both expert and popular discourse in the US have conflated male adolescence with social pathology and have constructed an image of the teenage boy as both symptomatic of and responsible for the nation's ills. Particular attention will be paid to issues of gender, race, and class. Primary source readings and original research will be emphasized. Enrollment limited to 20 first year students. WRIT
Spr AMCVO150J S01 25466 M 3:00-5:20(13) (R. Meckel)

0150  First Year Seminar
Enrollment limited to 20 first year students. WRIT

0190A Selling Love, Selling Sex: Romance in Popular Culture
Where do our beliefs about love and romance come from? Is it true that "sex sells"? This course examines representations of love in advertising and popular culture from the 1920s, 1950s, 1980s and the present. We'll compare texts such as Ladie's Home Journal, I Love Lucy, and Dynasty to Maxim, Desperate Housewives, and Mad Men. Enrollment limited to 17 freshmen and sophomores. WRIT
Fall AMCVO190A S01 15644 MTW 2:30-3:50(11) (E. Burbank-Gilb)

0190C Introduction to American Studies
This course examines the historical context for contemporary political issues including immigration, global warming, and "the war on terror" to better understand how the American past has shaped the American present. We will examine films, literature, and visual arts in the contexts of history and cultural criticism. Enrollment limited to 17 freshmen and sophomores. WRIT
Sum AMCVO190C S01 60268 MWTh 9:00-11:00 (E. Mazaris)

0190D Popular Music and the City
This course will examine the relationship between popular music and its sociocultural context by concentrating on three urban music forms; blues, soul, and hip hop. Readings will focus on: (1) concepts such as audiences, the music industry, cultural infrastructure, and race; (2) processes such as urbanization, demographic change, and the politicization of popular music. Enrollment limited to 17 freshmen and sophomores. WRIT
Sum AMCVO190D S01 60269 MW 6:00-10:00 PM (T. Chronopoulos)

0190E Sexuality in American History, 1880-1980
This course focuses on popular struggles over sexuality in the United States from 1880-1980. We will study how sexual values have been constructed and have changed over time. Topics include: same sex
ongoing conversations and conflicts among Los Angeles's diverse depictions of reading, visiting, touring, and living in cities especially through three case studies: Michael Jordan's rise to sports media played a generative role in late twentieth century American culture through three case studies: Michael Jordan's rise to sports stardom; the emergence of skateboarding as an "alternative" sport; and controversies surrounding transgender and transsexual athletes. Non-sports fans are welcome and encouraged! Enrollment limited to 17 freshmen and sophomores. WRIT

Spr AMCV0190W S01 25468 TTh 9:00-10:20(08) (E. Gonzales)

0190X Global Women: Nurses, Maids and Sex Industry Workers in Developed Countries
Today's women workers migrate at an unprecedented pace. This class looks at Third World women who move to developed countries to work as nurses and maids and in the sex industry. We examine their experiences through the intersectional lens of gender, race, class, and nationality and question the social, political, and economic forces that drive migration and draw women workers to specific destinations. Finally, we will look at the multiple inequalities these workers confront and the ways in which they negotiate and challenge them. Enrollment limited to 17 freshmen and sophomores. WRIT

Spr AMCV0190X S01 25469 TTh 2:30-3:50(11) (M. Hwang)

0190Y Re-viewing the American West: Exploring Race and Ethnicity Through Visual Culture
How has the ethnic borderland of the American West been remembered in visual culture? How have innovations in online archiving and access influenced collective memory? This course considers how different people clashed and coexisted in the nineteenth century American West. By placing the experiences of diverse ethnic groups in dialogue, the course provides both an understanding and a challenge to the ways in which scholars think and write about the American West. The final project will be an online exhibit featuring images, documents and video from online archives. Enrollment limited to 17 freshmen and sophomores. WRIT

Spr AMCV0190Y S01 25470 MW 8:30-9:50(02) (A. Johnson)

0190Z The Undocumented Speak Out: Immigrant Youth Activism and New Media
Examines contemporary undocumented immigration in the United States focusing on youth. We will examine the history of their migration and lived experiences by exploring the growing activism of undocumented youth and their use of new media in community organizing. As an intensive writing course, multidisciplinary approaches will include ethnography, blogging, proposal writing and academic historical writing. Enrollment limited to 17 freshmen and sophomores. WRIT

Spr AMCV0190Z S01 25843 TTh 6:30-7:50(12) (T. Tran)

(For Undergraduates and Graduates)

1250 Topics in Material Culture Studies

1250F Topics in Material Culture: Houses and Their Furnishings in Early America
Old houses and the objects used to furnish them are interpreted as material evidence of domestic life in colonial and early national America. Through slide lectures and field trips, this class examines Providence's historic buildings, museum collections, and public archives as primary documents in the study of cultural history. WRIT

Fall AMCV1250F S01 15648 TTh 10:30-11:50(09) (R. Emien)

1550 Methods in Public Humanities
A survey of the skills required for public humanities work. Presentations from local and national practitioners in a diverse range of public humanities topics: historic preservation, oral history, exhibition development, archival and curatorial skills, radio and television documentaries, public art, local history, and more. Enrollment limited to 50.

Spr AMCV1550 S01 23577 MWF 11:00-11:50(04) (A. Vaik)

1570 Site- Specific Writing in Brown's Historical Spaces

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
Using on-site writing techniques, students will write, workshop, and directed research-based site-specific short plays to be performed by local actors in historic Providence mansions. Class discussion will explore local history (class includes a walking tour), performance texts, and types of site-specific work. Students will emerge having written and directed a research-based work in a National Historical Landmark. Enrollment limited to 13.

Fall AMCV1570 S01 15649 Th 4:00-6:20(13)

1610 Special Topics in American Civilization

1610G Asian American History
A survey of the history of Asians in the U.S. from the early 19th century to the present. Focuses on the changing patterns of immigration, labor, community building, and civil rights struggles. DVPS
Spr AMCV1610G S01 25471 MWF 10:00-10:50(03) (R. Lee)

1611A Making America: Twentieth-Century U.S. Immigrant/Ethnic Literature
Examines the literature of first and second generation immigrant/ethnic writers from 1900 to the 1970’s. Attempts to place the individual works (primarily novels) in their literary and sociocultural contexts, examining them as conscious works of literature written within and against American and imported literary traditions and as creative contributions to an ongoing national discourse on immigration and ethnicity. DVPS
Fall AMCV1611A S01 14860 TTh 1:00-2:20(10) (R. Meckel)

1611D Popular Culture in American History
This interdisciplinary course examines the history of popular culture in the industrialized United States, drawing on methodologies from different fields, and using a variety of evidence, including minstrel song sheets, amusement parks, circuses, television, and fast food. We look at the audience, the producers and the texts presented by American popular culture both domestically and internationally.
Fall AMCV1611D S01 15650 MWF 11:00-11:50(04) (S. Smulyan)

1611M Trauma and the Shame of the Unspeakable: The Holocaust, Slavery, and Childhood Sexual Abuse
The problem of representing traumatic experience has been raised by philosophers, artists, and survivors. This course compares three historical situations by reading histories, memoirs, fictions, poems; viewing photographs and film; and analyzing the material cultural artifacts such as memorials. Readings will include Freud, Harriet Jacobs, La Capra, Primo Levi, Toni Morrison and "Maus" by Art Spiegelman. WRIT
Spr AMCV1611M S01 24051 MWF 11:00-11:50(04) (B. Haviland)

1611V Color Me Cool: A Survey of Contemporary Graphic Novels
Surveys a variety of comic books and graphic novels, both mainstream and independent. The emphasis, however, will be on the independent graphic novel. Students will also read history and criticism to understand better the context from which the books emerge and to grasp more firmly their visual and textual aesthetics. Must attend first three lectures to be eligible for enrollment.
Fall AMCV1611V S01 15651 MWF 10:00-10:50(03) (R. Rodriguez)

1611Z The Century of Immigration
Examines in depth the period of immigration that stretched from the 1820s through the 1920s and witnessed the migration of over 36 million Europeanans, Asians, Canadians, and Latin Americans to the United States. Explores causal theories of migration and settlement, examines the role of family, religion, work, politics, cultural production, and entertainment in immigrant/ethnic communities, and traces the development and impact of federal immigration policy.
Spr AMCV1611Z S01 24736 TTh 1:00-2:20(10) (R. Meckel)

1612A Chicago and America
This course explores the history of Chicago, but also uses the city as a way to think about issues in American history. Sources include novels, memoirs, popular histories, film, and music.
Spr AMCV1612A S01 25472 TTh 6:30-7:50(12) (E. Gorn)

1612B Celluloid America
In this course, we will explore 20th century American history through film, examining both the history of this quintessentially American medium and the way in which American history has been represented within the medium. Topics include the invention of the moving picture, the rise and fall of the Hollywood studio system, the emergence and evolution of film genres (westerns, film noir, Blaxploitation, etc.), race and film, and the future of cinema in the digital age.

The course meets two evenings per week, with the first half of each session dedicated to discussion of assigned readings and the second half to the screening and discussion of select films. To complete the course successfully, students will be expected to submit short (+/- 2 pages) weekly essays and to complete a final project.

Fall AMCV1612B S01 15908 MWF 1:00-1:50(06) (S. Zipp)

1612I Women on the Move: Gender, Sexuality and Migration
This course looks at the experiences of migrant women through the lens of gender and sexuality. It addresses the constitution of gender and sexuality in the process of women’s migration, analyzes the ways that society disciplines migrant women via the control of their gender and sexuality, and lastly identifies the ways that women utilize gender and sexuality to negotiate the various structural inequalities they confront in the process of migration. This course situates our discussion of gender and sexuality in the institutions of the state, labor market, family and community. Instructor permission required.
Spr AMCV1612I S01 25757 MWF 1:00-1:50(06) (S. Zipp)

1612M Children of Immigrants
Gives an overview of the experiences of the children of contemporary immigrants in the United States. It looks at their experiences in key social institutions including schools, the family and ethnic community. The course will examine the integration of immigrant children and how factors of race, class, and gender shape their experiences. To address the integration of immigrant children, the course will look at their process of assimilation, maintenance of transnational ties, and lastly the formation of youth identity.
Fall AMCV1612M S01 15909 MWF 8:00-9:50(02) (R. Parrenas)

1700 Interdisciplinary American Seminar
Usually taken in the junior year, this seminar is required of all concentrators in American Civilization.

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
1700D The Teen Age: Youth, Society and Culture in Early Cold War America
An interdisciplinary and multimedia exploration of the experiences, culture, and representation of youth in the United States from the end of World War II through the beginning of the Vietnam War. Limited to American Civilization concentrators. Instructor’s permission required.
Fall AMCV1700D S01 15652 M 3:00-5:20(13) (R. Meckel)

1700F American Publics
Americans worry about the quality of their civic life and fear its decline. This junior seminar examines an important concept, the public sphere, in its popular and political dimensions as well as looking at the challenges to the boundaries of American public life. Who is a citizen and thus eligible to participate? The course pays particular attention to concerns about the impact of new media--print, broadcasting, the internet--and offers a range of possible final projects. Not open to freshmen or sophomores. WRIT
Spr AMCV1700F S01 25474 Th 4:00-6:20(16) (S. Smulyan)

1900 Undergraduate Seminars in American Civilization
These seminars are primarily for juniors and seniors. Undergraduates only. Priority will be given to senior and junior concentrators in American Civilization. Enrollment limited to 20.

1901D Motherhood in Black and White
Focuses on American motherhood with respect to race: under slavery; at the turn of the 20th century; and in contemporary society. Texts include fiction, film, history, feminist and psychoanalytic theory, e.g. "Uncle Tom's Cabin," "Incidents in the Life of a Slave Girl," "Imitation of Life," and "The Reproduction of Mothering." Enrollment limited to 20. DVPS WRIT
Spr AMCV1901D S01 24053 W 3:00-5:20(14) (B. Haviland)

1902Z Radio: From Hams to Podcasts
This course examines the history of radio broadcasting and asks if a consideration of radio's historic flexibility can predict the future of this interesting medium. Readings will focus on the exciting new field of radio studies, emphasizing economics, structures, and listeners. Topics include radio’s ability to cross borders, create racial and gender categories, and change programming possibilities. Enrollment limited to 20 juniors and seniors. WRIT
Spr AMCV1902Z S01 25475 F 3:00-5:20(15) (S. Smulyan)

1903B Alien-nation: Latina/o Immigration in Comparative Perspective
Explores how Latina/o immigration to the United States has reshaped the meaning of "America" over the last hundred years. We will study Latina/os in comparison to other imm/migrants and examine how US immigration policy has created a nation partly composed of "alien" residents, some citizens, others not, who have constructed alternative notions of belonging. Enrollment limited to 20 juniors and seniors.
Fall AMCV1903B S01 15653 W 3:00-5:20(14) (M. Garcia)

1903U The Cultural Logics of Intimacy in America
Sexual practices are a mirror to American society in past and present. Sex is not a mere biological reality or a natural force but instead is as much a social and cultural construct. Acts of sex are etched into the structure of states, economies, and families, embedded in systems of inequality based on race, class, gender, and nation. Economic, social, and political processes shape how we make sense of sex, and meanings of sex shift across time and space. The one central question is: how have the meanings of sexuality, standards of sexual regulation and sexual politics varied over time with changing circumstances? Enrollment limited to 20 juniors and seniors.
Fall AMCV1903U S01 15654 TTh 9:00-10:20(08) (R. Parrenas)

1904B Henry James Goes to the Movies
This course will focus on some of the novels and stories by James that have been made more than once into films or tv shows - Washington Square, The Turn of the Screw, The Portrait of a Lady, and The Golden Bowl - and study the narrative and visual choices as interpretations of James's texts. Critical readings on the art of fiction and the art of film will also be included. Enrollment limited to 20. WRIT
Fall AMCV1904B S01 15655 Th 4:00-6:20(13) (B. Haviland)

1904C The Pacific Rim in American History
Investigates the circuits of people, goods and ideas between Asia and the Americas. Although these flows have been at work for the past half millennium, this course will focus principally on three historical moments: the trading world of the 17th and 18th centuries; colonialisms and their critics in the late 19th and early 20th centuries; and the "American Century" in the late 20th century. Enrollment limited to 20 juniors and seniors.
Fall AMCV1904C S01 15656 M 3:00-5:20(13) (R. Lee)

1904D End of the West: The Closing of the U.S. Western Frontier in Images and Narrative
In 1893, Historian Fredrick Jackson Turner declared "the closing of the American frontier," touching off an argument among historians about the meaning and significance of European expansion and settlement in the area west of the Mississippi River. Historians, filmmakers, television producers and photographers have continued the debate in their writings, images, and drama that will be the subject of this class. We will consider the various ways The West has "ended" in popular culture and academia, and consider how these narratives shape our present perceptions of the region and the people and cultures that inhabit and border it. Enrollment limited to 20 juniors and seniors.
Spr AMCV1904D S01 25758 Th 4:00-6:20(16) (M. Garcia)

1970 Independent Reading and Research
Required of all honors candidates in the senior year. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor’s permission required.
Fall; Spr (Primarily for Graduates)

2010 Introduction to Interdisciplinary Methods
Introduction to interdisciplinary studies required of all first-year graduate students in American civilization. Graduate students from other departments may enroll with permission of the instructor.
Fall AMCV2010 S01 14115 W 3:00-5:20(14) (E. Gorn)

2220 Topics in American Studies
2220B Culture, Politics and the Metropolitan-Built Environment
This interdisciplinary readings seminar will provide graduate students with an introduction to recent scholarly work on 20th century and contemporary cities and suburbs. Readings will be drawn from cultural, political, social, and intellectual history, American Studies, political science, sociology, and ethnography. They will investigate the interconnections between urban and suburban development and the role of ideology, class, gender, race, and globalization in shaping planning, architecture, culture, policy, politics, and social movements. This class is open to students in American Civilization, History, Sociology, Political Science, Anthropology, and other disciplines who find themselves interested in multi-disciplinary approaches to the study of cities and suburbs.
Spr AMCV2220B S01 25476 W 3:00-5:20(14) (S. Zipp)
2220C Transnational American Ethnographies
Asks if it is possible to study "America" outside the territorial boundaries of the United States. If so, how have scholars conducted ethnographies outside the U.S. territories that are of relevance to social, political, and economic issues concerning the United States? What are the various approaches that scholars have utilized and designed to address the lives of non-Americans to learn more about America? What are the various ways that the United States are culturally, politically, economically and socially implicated in the daily lives of those outside the United States? In a nutshell, how do we learn about America when looking outside of the United States?
Spr AMCV2220C S01 24737 TTh 9:00-10:20(08) (R. Parrenas)

2520 American Studies: Professional Issues in American Studies
Examines the methodological and theoretical underpinnings of current and past American studies scholarship. Enrollment limited to graduate students with preference given to American Civilization graduate students.
Fall AMCV2520 S01 11105 'To Be Arranged' (S. Smulyan)

2650 Introduction to Public Humanities
This class, a foundational course for the MA in Public Humanities with preference given to American Civilization graduate students, will address the theoretical bases of the public humanities, including topics of history and memory, museums and memorials, the roles of expertise and experience, community cultural development, and material culture. Enrollment limited to 20 graduate students.
Fall AMCV2650 S01 13640 W 3:00-5:20(14) (S. Lubar)

2652 Community Documentary and Storytelling
Pending Approval. This class focuses on ways that documentary methodologies and storytelling help individuals articulate and negotiate issues of race, ethnicity, gender and social class in local and regional communities. Through readings, discussions, and presentations by guest speakers, students will examine written, digital, visual, video/film, and oral presentations and performances as ways to express community stories. We will also consider how such projects can facilitate civic engagement. The class will involve participation in a community documentary project. Enrollment limited to 15 graduate students.
Fall AMCV2652 S01 15657 T 4:00-6:20(13) (A. Valk)

2653 Public Art: History, Theory, and Practice
The course offers an opportunity for RISD and Brown students to work together to understand how public art is shaped by ideas of community and audience, to discover the creative possibilities in the growing field of public art, to understand the changing nature of public art, and to question how it is shaped by ideas of community and audience. We will study the history of public art in America and Europe beginning in the early 20th century, and look at the ways public art administration and practice have evolved over this time, changing with pivotal events. Enrollment limited to 12. Instructor's permission required.
Fall AMCV2653 S01 14728 M 1:00-5:50(13) (J. Zweig)

2655 Challenges of Contemporary Curation: Contemporary Art to Relational Heritages
Pending Approval. Whether you are working with 2,000 year old artifacts or avant garde performance art or both, curation is a contemporary art of creation, mediation and relation. Over the 20th century, the act of curation has expanded beyond galleries and museums to include an array of agencies in the creative, cultural, educational and industrial sectors and a diverse range of artistic and media forms. Although you can now "curate" music play lists and clothing catalog collections, this course will explore curation as more than aesthetic discernment and stylistic choice, but as the reflective and reflexive creation and mediation of meaningful relations, spaces and experiences. Enrollment limited to 18.
Fall AMCV2655 S01 15659 Th 10:00-12:20(09) (I. Russell)

2670 Practicum in Public Humanities
Practicums in public humanities provide practical, hands-on training that is essential for careers in museums, historic preservation, and cultural agencies. Students will work with faculty to find appropriate placements and negotiate a semester's or summer work, in general a specific project. Available only to students in the Public Humanities M.A. program.
Fall AMCV2670 S01 13738 'To Be Arranged' (A. Valk)
Spr AMCV2670 S01 24738 'To Be Arranged' (A. Valk)

2680 Practicum in Public Humanities
Practicums in public humanities provide practical, hands-on training that is essential for careers in museums, historic preservation, and cultural agencies. Students will work with faculty to find appropriate placements and negotiate a semester's or summer work, in general a specific project. Available only to students in the Public Humanities M.A. program.
Fall AMCV2680 S01 15658 'To Be Arranged' (A. Valk)
Spr AMCV2680 S01 23879 'To Be Arranged' (A. Valk)

2690 Management of Cultural Institutions
What does it take to run a public humanities institution? This course explores the "behind the exhibits" systems of planning, administration, governance, revenue generation, finance and marketing. Throughout the course, students will explore the challenges/tensions that develop between fulfilling the mission and developing sustainable organizations.
Spr AMCV2690 S01 25477 'To Be Arranged'

2920 Independent Reading and Research
Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor's permission required.
Fall; Spr

2990 Thesis Preparation
For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing a thesis.
Fall AMCV2990 S01 11111 'To Be Arranged'
Spr AMCV2990 S01 20799 'To Be Arranged'

American Sign Language see Center for Language Studies

Ancient Studies see Early Cultures

Ancient Western Asian Studies see Egyptology and Ancient Western Asian Studies

Anthropology
(Primarily for Undergraduates)

0066 Seminars
Enrollment limited to 20 first year students.

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
0066B Mythscapes
An experimental seminar that will combine classroom discussion with visits to field sites within walking distance of the Brown campus. The aim will be to acquaint students with some fundamentals of symbolic analysis and to apply these fundamentals to interpreting the moral and historical messages suffused in the landscapes around us. Readings will include sources on the anthropological interpretation of myth combined with historical sources on Brown and its neighboring communities and institutions. Students will acquire a deeper sense of the mythic qualities of this place and some analytical tools for understanding mythscapes elsewhere. Enrollment limited to 20 first year students. FYS DVPS

Spr ANTH0066B S01 25550 M 3:00-5:20(13) (W. Simmons)

0066Q Crisis of Identities in the Global Order
The seminar is intended to engage first-year students in discussion and analysis of one of the perplexing questions of the modern age. Why, with globalization and an attendant world-view shaped by the technological revolutions of communication that appeal to commonalities, we find more emphasis on local differences, more conflicts related to identities determined by opposition to “the other”? A concordant question will be: how do different disciplines address the concept of identity? Enrollment limited to 20 first year students. FYS

Spr ANTH0066Q S01 24288 T 1:30-3:50(11) (P. Leis)

0100 Introduction to Cultural Anthropology
This course provides an introduction to cultural anthropology, surveying its defining questions, methods, and findings. We will examine the history and utility of anthropology's hallmark method, ethnography, the long-term immersion of the researcher in the culture under study. We will compare cultural anthropological findings and comportment in other cultures to its conclusions and conduct in our own. No prerequisites. DVPS LILE

Sum ANTH0100 S01 60272 MWF 4:00-6:40 (E. Korouchkina)
Spr ANTH0100 S01 21027 MWF 12:00-12:50(05)

0125 Violence and the State
This course allows students the opportunity to interrogate the relation between violence and the state. Students will be introduced to a variety of analytical frames through which to understand both the concept of violence and that of the state from an anthropological perspective. Through diverse case studies we will consider topics such as what it means to see and be seen by the state, the rationalization of “exceptional” violence, and domination through symbolic violence. The course has no prerequisites, but a foundational course in the social sciences is recommended.

Sum ANTH0125 S01 60273 MWF 9:00-11:40 (J. Ashley)

0200 Culture and Human Behavior
The goal is to challenge our beliefs about some taken for granted assumptions about human behavior and psyche by examining cultures with different conceptions of self and cognition. We will examine the issues of the role of nature and nurture in development, the nature of intelligence, coming of age, the association of psychological characteristics with gender and the naturalness of emotions. DVPS LILE

Fall ANTH0200 S01 10762 MW 10:00-10:50(03) (M. Hollos)

0300 Culture and Health
An introduction to the field of Medical Anthropology. Lecture reading and discussion will examine the social context of health and illness, looking at the diverse ways in which humans use cultural resources to cope with disease and develop medical systems. The course will provide an introduction to the overall theoretical frameworks that guide anthropological approaches to studying human health related behavior. Medical anthropology offers a unique and revealing perspective on the cultural diversity that characterized the universal human experience of sexuality, disease, aging, mental illness, disability, inequality and death. DVPS LILE

Fall ANTH0300 S01 14352 MWF 11:00-11:50(04) (S. Hamdy)

0302 Anthropology of Gender and Globalization
Pending Approval. We live in a global world in which the movements of people, goods, and ideas cause productive frictions, transforming the prevailing formations of gender and sexuality. This course examines the intersections of gender and globalization by looking at how globalization shapes cultural constructions and political configurations of gender, and exploring how an ethnographic focus on gender sheds light on various aspects of globalization. Topics covered include anthropological theory of gender and sexuality, gender and global capital, gender and the (colonial) state, and gender and global politics (including gender activism, human rights, and development).

Spr ANTH0302 S01 25774 T 4:00-6:20(16)

0500 Discovering the Past: Introduction to Archaeology and Prehistory
This course is an introduction to the biological origins and cultural developments of mankind over the past 4 millions years. In particular we shall address the following: human evolution, the methods and aims of archaeological research, human dispersal throughout the world, first from Africa to Eurasia, and from there to North and South America, Australia and the Pacific. We will look into hunting and fishing and gathering lifeways. We will study the beginnings and results of settled life, agriculture, and animal domestication, the evolution of complex societies and rise (and fall) of Civilization. LILE

Fall ANTH0500 S01 15737 MWF 11:00-11:50(04) (D. Anderson)

0520 Classic Mayan Civilization
Examines the history, culture, and society of the Classic Maya, with special emphasis on Preclassic precursors, dynasties, environmental adaptation, imagery, architecture, urban form, and the Maya Collapse.

Spr ANTH0520 S01 25559 TTh 10:30-11:50(09) (S. Houston)

0800 Sound and Symbols: Introduction to Linguistic Anthropology
An introduction to the relationship between language and culture. Questions we consider include: how does language create social realities? How does language construct us as individuals and mark us as members of groups? What role does language play in processes like socialization, globalization, and domination? Topics we cover include theories of language as a symbolic system, language differences and inequality, political speech, and creative use of language in performance, literature, advertising, and mass media. We also consider language use in specific social contexts, such as classrooms, courtrooms, medical and scientific settings, policy debates, and political campaigns. DVPS LILE

Spr ANTH0800 S01 23656 MWF 11:00-11:50(04)

(For Undergraduates and Graduates)

1110 African Issues in Anthropological Perspective
Western ideas of Africa are dominated by images of a primitive and timeless past and of a present characterized by poverty, AIDS, famine, and violence. In reality, Africa is a vast continent with a rich history and a population of half a billion people who live in very varied physical, economic, political, and cultural environments. We will read fiction by African authors, see African films, look at African art, and listen to African music. Goals of the course are: 1) Learn about the lives of a variety of Africans at particular times and in particular places, 2) Know the outline of the history that has formed the African present, 3) Understand specific world views and patterns of belief that have been
described as typically African, and 4) Investigate the possibility, and the problems, of generalizing about Africa. DVPS LILE

1124 United States Culture
The United States is often described as "multi-cultural". This course examines dominant cultural values such as equality, choice, privacy, and responsibility. It also investigates aspects of the social structure of the United States such as inequality, power, race/ethnicity, kinship, and gender. Individual lives illustrate the ways that people living in the United States negotiate cultural values and confront social institutions. DVPS LILE

Fall ANTH1124 S01 14463 TTh 10:30-11:50(09) (N. Townsend)

1151 Ethnographies of the Muslim Middle East
This course is an introduction to ethnographic studies of the Muslim Middle East, with particular focus on: religion, language, modernity, gender, and expressive culture. This is not a comprehensive survey of Middle Eastern history or politics. Rather, it is a critical examination of the ways in which anthropologists have sought to capture Middle Eastern life, and the problems that have pervaded anthropological representation, both methodologically and theoretically. Thus, in this course you will learn, through the ways in which American anthropologists have sought to depict Middle Eastern "others," the processes by which we come to understand cultural difference, as well as the ways in which this encounter can shed light on our own selves and practices. A previous course in anthropology is suggested. Enrollment limited to 20. DVPS LILE

Spr ANTH1151 S01 25771 W 3:00-5:20(14) (S. Hamdy)

1211 Cross Cultural Perspectives on Children
Explores how the behavior and psychological functioning of children are shaped by culture and how different cultures tend to produce children with characteristic personalities, selves, thought patterns and behaviors. Every cultural community provides developmental pathways for children. These pathways are shaped by history and by the goals of parents, communities and children themselves. The course will focus on how human knowledge is transmitted through multiple cultural channels, in both informal and formal contexts. This is a service-learning course in which students provide a needed service. Mentoring and tutoring Liberian young people in a literacy program. This will serve as a basis for conducting research on this refugee population and the final paper will be the recording of oral histories from teenagers. Enrollment limited to 30. DVPS LILE

Spr ANTH1211 S01 24276 TTh 10:30-11:50(09) (M. Hollos)

1224 Human Trafficking, Transnationalism, and the Law
Designed to give students an opportunity to engage in transnational research on social issues through an extended case study of a new generation of international norms that identify and combat "human trafficking." The course format combines seminar discussions, lectures, and small group exercises. Students will learn by doing. As we consider legal instruments, UN and U.S. documentary archives, anti-trafficking media such as films and websites, and the prosecution of criminal networks, we will experiment with alternative methodologies for analyzing them. We will study the relation of texts to the social and political contexts of their production and circulation. Enrollment limited to 30. DVPS LILE WRIT

Fall ANTH1224 S01 15992 W 6:00-8:20 PM(18) (K. Warren)

1227 Science, Activism, and Politics of Gender: The Awkward Endings of Female Genital Cutting
Pending Approval. How did much of the world agree that female genital cutting should be ended? This course explores grassroots and international campaigns in Africa and the West, effects of asylum and criminal laws, and international organizations' attempts to create evidence-based, scientific governance to end cutting. We will focus on ethnographies that problematize these interventions by analyzing their histories, cultural politics, contradictory effects on local communities, and global political ramifications. By examining interventions against cutting, this course offers a methodological and conceptual blueprint for researching local-global production of human rights crises and efforts to resolve them.

Fall ANTH1227 S01 15927 M 5:00-7:20(18)

1229 Democracy and Difference
Pending Approval. No description available.

Fall ANTH1229 S01 15792 TTh 2:30-3:50(11) (M. Brink-Danan)

1322 War and Society
Cross-cultural and historical perspectives on war and its larger social context. Course readings and lectures use political economic, cultural, and feminist approaches to understanding war and its effects on social life. Case studies will be drawn from several eras and areas of the globe, including the Rwandan genocide, Central American counterinsurgency wars of the 1980s, and the war in Iraq. LILE

Spr ANTH1322 S01 25561 MWF 10:00-10:50(03) (C. Lutz)

1333 Ethnographies of Global Connection: Politics, Culture and International Relations
Historically, IR and Anthropology examined interactions within and among bounded objects, whether sovereign states or small-scale societies. Increasingly, through, they explore flows, circulations and exchanges across borders, and their impact on different societies. Through case-studies, the course will analyze evolving understandings of "globalization" and "culture," and explore how effectively different genres of research and representation capture their complex interactions.

Fall ANTH1333 S01 14596 MWF 12:00-12:50(12) (K. Brown)

1334 Anthropology and Utopia
Utopia: designs for good societies and efforts to create them; and Anthropology: observation and description of societies. A wide-ranging reading and discussion class that will address such questions as: Does Anthropological description contribute to the design of good societies? Have Anthropologists been looking for Utopia? What does Anthropology suggest is wrong with existing societies? Whose job is it to judge societies? How would Utopias be like to live in? How have people tried to build Utopias? Have they failed completely? Is failure inevitable? Is a better world possible? What would it look like? How would we get there? LILE

Spr ANTH1334 S01 25564 TTh 9:00-10:20(08) (N. Townsend)

1440 Religion and Culture
Looking at religion as a mode of thought, we examine theories that attempt to explain the origins, world-wide manifestation, and vitality of myths, rituals, magic, witchcraft, and other ways of thinking and acting that are typically associated with (or against) the concept of religion. Collaterally, we examine the methodologies by which we hope to understand the meaning of these concepts. DVPS LILE

Spr ANTH1440 S01 25566 TTh 1:00-2:20(10) (P. Leis)

1525 Film and Anthropology: Identity and Images of Indian Societies
The course examines representation of Indian society in film and anthropological literature. We compare how gender, national identity, religious practices, and historical events are portrayed in films and anthropological literature. We will explore the relationship between visual and textual, showing how film reflect and make comprehensible anthropological concepts of Indian culture, and creates different images of the society. Students MUST register for a filming/screening, and a lecture section. DVPS LILE

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
1251 Violence and the Media
The role of media in shaping perceptions of violent conflict. Analysis of constructions of the “violent other”, “victims”, and “suffering”, the use of culture, ethnicity, and psychopathology as tropes for articulating the motivations of violent perpetrators. Multiple subject positions and political interests will be considered. Case studies include the Cold War, conflicts, insurgencies urban riots, the genocide, and terrorism. Pre-requisite: a previous course in Anthropology, or permission of the instructor. Enrollment limited to 60. Students MUST register for a filmming/screening, and a lecture section.

Spr ANTH1251 S01 24596 TTh 6:30-7:50(12)  (K. Warren)

1260 Indigenous People and Nature: Birds
An exploration of intersections of indigenous peoples with the natural world; this semester with the avian world. Through a sustained focus on one class of living things, the hope is to gain access to a range of issues concerning the relationship between people and the environment. Enrollment limited to 20. LILE

Spr ANTH1260 S01 23673 MW 8:30-9:50(02)  (S. Kretch)

1305 Medical Humanities: Critical Perspectives on Illness, Healing, and Culture
Medicine is arguably the most humanistic of the hard sciences, one that strives to ensure the basic dignity of individuals. In our increasingly globalized world, access to medical care is recognized as a fundamental human right. However, there continues to be considerable debate over the "best" ways to provide medical services to economically and culturally diverse communities across the globe, given the complex ways that people prioritize and perpetuate their health. Drawing on a range of disciplines, this seminar explores the multifaceted relations between biomedicine and cultural understandings of illness, both in the US and worldwide. Instructor's permission required. Enrollment limited to 25 juniors and seniors. DVPS LILE

Fall ANTH1305 S01 15794 W 3:00-5:20(14)  (B. Dahl)

1310 International Health: Anthropological Perspectives
This upper-level medical anthropology course focuses on the social and cultural complexity of health problems in developing nations, employing anthropological approaches to public health. International health issues such as HIV/AIDS, malaria, tuberculosis, leprosy, reproductive health, violence, and mental illness will be examined. The historical, political and socio-cultural dimensions of international health problems will be explored through reading ethnographic case studies. DVPS LILE

Spr ANTH1310 S01 25576 MWF 11:00-11:50(04)  (D. Smith)

1411 Nations within States
Examines the interactions between small-scale indigenous societies (often referred to as Fourth World Nations) and the modern states within which they now exist. The relationship is obviously asymmetrical, yet these ethnic or "racial" minorities have the support of world opinion and international organizations. The sociocultural, economic, and political structure of these nations within states is the focus of the course. DVPS

Spr ANTH1411 S01 25578 TTh 2:30-3:50(11)  (D. Anderson)

1540 Power, Profit, and Pillage: The Rise and Fall of Trading Kingdoms in Asia
A course survey of the pre- and protohistoric archaeology of the eastern half of Asia. Topics include the origins and evolution of agricultural societies, the emergence of village and urban life, and the rise of states and kingdoms. The early states were often characterized and even reinforced by elaborate symbolic and religious systems expressed through ritual, art, and architecture-topics also covered by the course.

Spr ANTH1540 S01 25773 MWF 2:00-2:50(07)  (D. Anderson)

1621 Material Culture Practicum
Combines theory with hands-on study of material culture in historical archaeology. Students gain skills and experience in identifying, dating, recording, analyzing, and interpreting artifacts and conduct individual or team research projects. Enrollment limited to 15. LILE

Spr ANTH1621 S01 25582 T 1:30-3:50(11)  (P. Rubertone)

1650 Ancient Maya Writing
Nature and content of Mayan hieroglyphic writing, from 100 to 1600 CE. Methods of decipherment, introduction to textual study, and application to interpretations of Mayan language, imagery, world view, and society. Literacy and Mesoamerican background of script. Enrollment limited to 20. LILE

Fall ANTH1650 S01 15752 MW 11:00-11:50(04)  (S. Houston)

1900 History of Anthropology: Anthropological Theories
Looks at the way anthropological methods and theories have interfaciated through history to understand the dominant concerns in present-day anthropology. What were the important issues that influenced the discipline's history? Who were the significant, and not so well known, historic personalities who shaped anthropological practice and gave it its identity?

Fall ANTH1900 S01 14360 W 3:00-5:20(14)  (P. Leis)

1910 Social Construction
Enrollment limited to 20. Prerequisite: ANTH 1621, 1900, or 1950.

Fall ANTH1910E S01 15762 M 3:00-5:20(13)  (N. Townsend)

1940 Ethnographic Research Methods
To understand the different theoretical assumptions that shape research efforts; to examine how hypotheses and research questions are formulated; and to appreciate the ethical and scientific dimensions of research by hands-on experience in fieldwork projects. Enrollment limited to 20. Prerequisite: one Anthropology course.

Spr ANTH1940 S01 25596 W 3:00-5:20(14)  (L. Fruzzetti)

1970 Individual Research Project
Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course.

Fall; Spr

(Primarily for Graduates)

2000 History of Ethnological Theory
A seminar investigating some themes in the history of anthropological theory. Starting with the delineations of the scope and nature of social science by Marx, Durkheim, and Weber, the seminar then considers various explorations of the concepts of structure, function, and agency, concluding with Bourdieu's reformulation of social anthropology for a new generation in the form of practice theory.

Fall ANTH2000 S01 10806 W 3:00-5:20(14)  (W. Simmons)
2010 Principles of Cultural Anthropology
A seminar exploring fundamental theoretical and ethnographic currents in 20th-century cultural anthropology.
Spr ANTH2010 S01 21031 Th 12:30-3:50(11) (S. Hamdy)

2025 Research Design and Ethnographic Methods in Anthropology
The purpose of this seminar is to help graduate students conceptualize ethnographic research, formulate a research problem, develop a research design, consider its ethical implications, design appropriate methodologies and prepared the proposal for IRB approval. The methodologies will be discussed with a view to arriving at a critical understanding of the ethical, political and theoretical issues embedded in them and the way in which they fit into our conception of anthropological practice.
Spr ANTH2025 S01 25598 M 3:00-5:20(13) (M. Hollos)

2110 Critical Perspective: Social and Cultural Issues in Africa
Focuses on debates over significant social and cultural issues in Africa. Historical and cultural continuities are premised as a way of understanding political, economic, and religious complexities in present-day Africa.
Fall ANTH2110 S01 15764 F 3:00-5:20(15) (P. Leis)

2255 Gender, Liberalism, and Postcolonial Theory
Pending Approval. What makes gender useful to think with? What work is it charged with doing--in the "real" world and in scholarship? What is the explanatory and analytical potential of a category that has been appropriated to divergent ends? Drawing on multiple disciplines in the humanities and social sciences, this course operates at two registers throughout: it offers students a productive set of analytical tools for theorizing gender and sexuality in culture and society; and it constructs a genealogy of anthropological analysis of gender and sexuality from a postcolonial perspective, exploring how ethnography and postcolonial theory have challenged liberal feminism.
Fall ANTH2255 S01 15928 T 4:00-6:20(13)

2303 Anthropology of Fertility and Reproduction
A seminar examining the social significance and cultural meanings of human fertility and reproduction, including the social and cultural consequences of different fertility levels, the variety of people involved in decisions about reproduction, the allocation of responsibility for parenthood, and the political implications of contemporary debates about the meanings of biological and social reproduction.
Fall ANTH2303 S01 15765 T 1:30-3:50(11) (M. Hollos)

2304 Issues in Anthropology and Population
This seminar is intended for graduate students and postdoctoral fellows interested in anthropological approaches to population issues and is normally taken as the second course in a two-course sequence that begins with ANTH 2300. The overarching theme of the seminar is the contributions that sociocultural anthropology can make to the understanding of population processes.
Spr ANTH2304 S01 25599 T 4:00-6:20(16) (B. Dahl)

2310 Graduate Seminar on Violence
This seminar deals with contemporary anthropological approaches to violence, governance, and transnationalism. As faculty and graduate students, we have worked together to identify important ethnographic experiments that provide novel anthropological framings of major global issues. Our goal is to interrogate anthropological writing, explore its relation to field research, and trace anthropological appropriations of contemporary social theory from a variety of sources. Prerequisites: three previous courses in Anthropology. Enrollment limited to 20.

2310B Violence, Governance and Transnationalism
Deals with contemporary anthropological approaches to intersection of violence, human rights, law, and transnationalism. Readings will focus on the development of a new generation of research in the anthropology of human rights and its role for rethinking legal anthropology. Anthropology has moved beyond the "cultural relativism" paradigm on to new projects which analyze the appropriation and use of human rights discourse and international norms as political tools for a variety of national and local agendas. Anthropologists have produced ethnographies that focus on the institutional grounding of legal discourse and practice in community and neighborhood politics, social movements, and ethnic nationalist projects. They have studied the radical reworking of rights discourse in different parts of the world and debated the ways in which these technologies for legal redress in the face of violence are politically empowering and/or disempowering in particular historical and cultural circumstances. Enrollment limited to 20.
Fall ANTH2310B S01 15766 Th 4:00-6:20(13) (K. Warren)

2500 Problems in Archaeology

2500A Problems in Archaeology: Culture, Contact and Colonialism
Explores the theoretical discourses shaping anthropological approaches and defining archaeological projects on culture contact and colonialism. Attention will be given to examining colonial encounters between Europeans and indigenous peoples as ongoing processes rather than particular historical moments, and to looking at recent efforts at decolonizing archaeological practice.
Spr ANTH2500A S01 25601 Th 4:00-6:20(16) (P. Rubertone)

2501 Principles of Archaeology
Examines theoretical and methodological issues in anthropological archaeology. Attention is given to past concerns, current debates, and future directions of archaeology in the social sciences.
Fall ANTH2501 S01 13138 M 3:00-5:20(13)

2510 Circumpolar Archaeology
A specialized course dealing with advanced problems in Arctic archaeology. Although primarily oriented toward the northern specialist, the seminar is designed to present, by example, methodological and analytic problems that are applicable to most archaeological areas and to hunting, fishing, and gathering societies.
Fall ANTH2510 S01 15770 F 3:00-5:20(15) (D. Anderson)

2800 Linguistic Theory and Practice
An introduction to theoretical and methodological issues in the study of language and social life. We begin by examining semantic approaches to language. We turn to classical research on language as a structured system - covering such topics as phonology and grammatical categories - but we focus on the implications of such work for broader social scientific and humanistic research. We then consider areas of active contemporary research, including cognition and linguistic relativity, meaning and semantics, pronouns and deixis, deference and register, speech acts and performativity, interaction, verbal art and poetics, reported speech, performance, and linguistic ideology.
Spr ANTH2800 S01 21802 W 3:00-5:20(14)

2900 Teaching Practicum
Fall ANTH2900 S01 10835 "To Be Arranged"
Spr ANTH2900 S01 20634 "To Be Arranged"

2970 Preliminary Examination Preparation
For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing for a preliminary examination.
APPLIED MATHEMATICS

INTRODUCTION TO NUMERICAL COMPUTATIONAL METHODS
This course provides an introduction to numerical methods for solving mathematical problems that arise in real-world applications. Topics include numerical linear algebra, interpolation and approximation, numerical differentiation and integration, and the solution of differential equations. Emphasis is placed on both the theoretical foundations and practical implementation of these methods.

Mathematics

Numerical Linear Algebra

This course covers the fundamentals of numerical linear algebra, including direct and iterative methods for solving linear systems, eigenvalue problems, and singular value decomposition. The course also introduces the use of modern software packages for numerical computation.

Students are expected to have a solid background in linear algebra and calculus. The course uses MATLAB as the primary tool for implementation and experimentation.
Basic mathematical methods commonly used in the cognitive and neural sciences. Topics include: introduction to differential equations, emphasizing qualitative behavior; introduction to probability and statistics, emphasizing hypothesis testing and modern nonparametric methods; and some elementary information theory. Examples from biology, psychology, and linguistics. Prerequisite: MATH 0100 or equivalent.

Fall APMA0410 S01 11124 MWF 2:00-2:50(07) (L. Bienenstock)

0650 Essential Statistics

Spr APMA0650 S01 20801 TTh 2:30-3:50(11) (S. Geman)

(For Undergraduates and Graduates)

1070 Quantitative Models of Biological Systems
An introduction to the use of quantitative modeling techniques in solving problems in biology. Each year one major biological area is explored in detail from a modeling perspective. The particular topic will vary from year to year. Mathematical techniques will be discussed as they arise in the context of biological problems. Prerequisites: introductory level biology, APMA 0330, 0340 or 0350, 0360, or written permission. Offered in alternate years.

Fall APMA1070 S01 11138 MWF 10:00-10:50(03) (M. Maxey)

1080 Inference in Genomics and Molecular Biology
Sequencing of genomes (human and other) has generated a massive quantity of fundamental data that is revolutionizing the life sciences. The focus of this course is on drawing traditional and Bayesian statistical inferences from these data, including: alignment of biopolymer sequences; prediction of their structures, regulatory signals, and compositional characteristics; significances in database searches; phylogeny; and functional genomics. Emphasis is on inferences of the discrete high dimensional objects that are common in this field. Statistical topics: parameter estimation, hypothesis testing and false discovery rates, statistical decision theory, and Bayesian posterior inference. Prerequisite: APMA 1650 or MATH 1610 or equivalent; BIOL 0200 or equivalent; and experience with Matlab or another programming language.

Spr APMA1080 S01 20814 TTh 10:30-11:50(09) (W. Thompson)

1170 Introduction to Computational Linear Algebra
Focuses on fundamental algorithms in computational linear algebra with relevance to all science concentrators. Basic linear algebra and matrix decompositions (Cholesky, LU, QR, etc.), round-off errors and numerical analysis of errors and convergence, iterative methods and conjugate gradient techniques. Computation of eigenvalues and eigenvectors, and an introduction to least squares methods. A brief introduction to Matlab is given. Prerequisites: MATH 0520 is recommended, not required.

Fall APMA1170 S01 11149 TTh 10:30-11:50(09) (J. Hesthaven)

1180 Introduction to Numerical Solution of Differential Equations

Prerequisites: APMA 0330, 0340 or 0350, 0360. APMA 1170 is recommended.

Spr APMA1180 S01 25633 MWF 11:00-11:50(04) (J. Guzman)

1200 Operations Research: Probabilistic Models
Basic probabilistic problems and methods in operations research and management science. Methods of problem formulation and solution. Markov chains, birth-death processes, stochastic service and queuing systems, the theory of sequential decisions under uncertainty, dynamic programming. Applications. Prerequisite: APMA 1650 or MATH 1610, or equivalent. LILE

Spr APMA1200 S01 20817 TTh 9:00-10:20(08) (K. Spiliopoulos)

1210 Operations Research: Deterministic Models
An introduction to the basic mathematical ideas and computational methods of optimizing allocation of effort or resources, with or without constraints. Linear programming, network models, dynamic programming, and integer programming.

Fall APMA1210 S01 11152 TTh 9:00-10:20(08)

1360 Topics in Chaotic Dynamics
Overview and introduction to dynamical systems. Local and global theory of maps. Attractors and limit sets. Lyapunov exponents and dimension. Fractals: definition and examples. Lorenz attractor, Hamiltonian systems, homoclinic orbits and Smale horseshoe orbits. Chaos in finite dimensions and in PDEs. Can be used to fulfill the senior seminar requirement in applied mathematics. Prerequisites: differential equations and linear algebra.

Spr APMA1360 S01 23830 MWF 1:00-1:50(06) (J. Mallet-Paret)

1650 Statistical Inference I
APMA 1650 begins an integrated first course in mathematical statistics. The first half of APMA 1650 covers probability and the last half is statistics, integrated with its probabilistic foundation. Specific topics include probability spaces, discrete and continuous random variables, methods for parameter estimation, confidence intervals, and hypothesis testing. Prerequisite: MATH 0100, 0170, 0180, 0190, 0200, or 0350.

Fall APMA1650 S01 11183 TTh 1:00-2:20(10) (C. Lawrence)

1690 Computational Probability and Statistics
Examination of probability theory and mathematical statistics from the perspective of computing. Topics selected from random number generation, Monte Carlo methods, limit theorems, stochastic dependence, Bayesian networks, probabilistic grammars. Offered in alternate years.

Fall APMA1690 S01 14363 MWF 9:00-9:50(02) (M. Harrison)

1710 Information Theory
Information theory is the study of the fundamental limits of information transmission and storage. This course, intended primarily for advanced undergraduates and beginning graduate students, offers a broad introduction to information theory and its applications: Entropy and information, lossless data compression, communication in the presence of noise, channel capacity, channel coding, source-channel separation, lossy data compression. Prerequisite: one course in probability.

Fall APMA1710 S01 13717 MWF 11:00-11:50(04) (S. Geman)

1720 Monte Carlo Simulation with Applications to Finance
The course will cover the basics of Monte Carlo and its applications to financial engineering: generating random variables and simulating stochastic processes; analysis of simulated data; variance reduction techniques; binomial trees and option pricing; Black-Scholes formula; portfolio optimization; interest rate models. The course will use

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
Interested students must register for ENGN 2810 S01 (CRN 13696).

2100 Hilbert Spaces and Their Applications
A continuation of APMA 2110: metric spaces, Banach spaces, Hilbert spaces, the spectrum of bounded operators on Banach and Hilbert spaces, compact operators, applications to integral and differential equations.

Spr APMA2120 S01 24367 MWF 10:00-10:50(03) (H. Dong)

2190 Nonlinear Dynamical Systems: Theory and Applications

Fall APMA2190 S01 11185 TTh 2:30-3:50(11) (B. Sandstede)

2210 Topics in Nonlinear Dynamical Systems
This topics course focuses on applications of dynamical systems to nonlinear waves and patterns such as travelling waves and spiral waves. Among the topics that will be covered are exponential dichotomies, spectral theory of travelling waves, Fredholm theory, and Lyapunov-Schmidt reduction for homoclinic orbits with applications to waves in nonlinear optics and fluids. The prerequisite for the course is a solid (rigorous) grounding in nonlinear dynamics, typically APMA 2190-2200 or equivalent.

Fall APMA2210 S01 11189 MWF 2:00-2:50(07)

2230 Partial Differential Equations
Interested students must register for MATH 2370 S01 (CRN 15960).

2240 Partial Differential Equations
Interested students must register for MATH 2380 S01 (CRN 25693).

2410 Fluid Dynamics I
Interested students must register for ENGN 2810 S01 (CRN 13696).

2420 Fluid Dynamics II
A continuation of APMA 2410. Topics include: low Reynolds number flows, boundary layer theory, wave motion, stability and transition, acoustics, and compressible flows.

Spr APMA2420 S01 23493 MWF 2:00-2:50(07) (M. Maxey)

2550 Numerical Solution of Partial Differential Equations I
Finite difference methods for solving time-dependent initial value problems of partial differential equations. Fundamental concepts of consistency, accuracy, stability and convergence of finite difference methods will be covered. Associated well-posedness theory for linear time-dependent PDEs will also be covered. Some knowledge of computer programming expected.

Fall APMA2550 S01 11261 W 3:00-5:20(14) (C. Shu)

2560 Numerical Solution of Partial Differential Equations II
An introduction to weighted residual methods, specifically spectral, finite element and spectral element methods. Topics include a review of variational calculus, the Rayleigh-Ritz method, approximation properties of spectral end finite element methods, and solution techniques. Homework will include both theoretical and computational problems.

Spr APMA2560 S01 21026 W 3:00-5:20(14) (G. Karniadakis)

2570 Numerical Solution of Partial Differential Equations III
We will cover finite difference and other methods for solving hyperbolic partial differential. Background material in hyperbolic partial differential equations will also be covered. Algorithm development, analysis, implementation and application issues will be addressed. Prerequisite: APMA 2550 or equivalent knowledge in numerical methods. May be repeated once for credit.

Fall APMA2570 S01 11423 M 3:00-5:20(13) (C. Shu)

2580 Computational Fluid Dynamics
An introduction to computational fluid dynamics with emphasis on incompressible flows. Reviews the basic discretization methods (finite differences and finite volumes) following a pedagogical approach from basic operators to the Navier-Stokes equations. Suitable for first-year graduate students, more advanced students, and senior undergraduates. Requirements include three to four computer projects. Material from APMA 1170 and 1180 is appropriate as prerequisite, but no prior knowledge of fluid dynamics is necessary.

Spr APMA2580 S01 25635 ‘To Be Arranged’ (G. Karniadakis)

2610 Recent Applications of Probability and Statistics
This is a topics course, covering a selection of modern applications of probability and statistics in the computational, cognitive, engineering, and neural sciences. The course will be rigorous, but the emphasis will be on application. Topics will likely include: Markov chains and their applications to MCMC computing and hidden Markov models, Dependency graphs and Bayesian networks; parameter estimation and the EM algorithm; Nonparametric statistics (“learning theory”), including consistency, bias/variance tradeoff, and regularization; Gibbs distributions, maximum entropy, and their connections to large deviations. Each topic will be introduced with several lectures on the mathematical underpinnings, and concluded with a computer project, carried out by each student individually, demonstrating the mathematics and the utility of the approach.

Spr APMA2610 S01 25636 MWF 1:00-1:50(06) (M. Harrison)

2630 Theory of Probability
A one-semester course that provides an introduction to probability theory based on measure theory. The course covers the following topics: probability spaces, random variables and measurable functions, independence and infinite product spaces, expectation and conditional expectation, weak convergence of measures, laws of large numbers.
and the Central Limit Theorem, discrete time martingale theory and applications.

Fall APMA2630 S01 11424 TTh 1:00-2:20(10) (K. Ramanan)

2640 Theory of Probability
A one-semester course in probability that provides an introduction to stochastic processes. The course covers the following subjects: Markov chains, Poisson process, birth and death processes, continuous-time martingales, optional sampling theorem, martingale convergence theorem, Brownian motion, introduction to stochastic calculus and Ito’s formula, stochastic differential equations, the Feynman-Kac formula, Girsanov’s theorem, the Black-Scholes formula, basics of Gaussian and stationary processes. Prerequisite: APMA 2630 or equivalent course.

Spr APMA2640 S01 21024 TTh 1:00-2:20(10) (K. Ramanan)

2670 Mathematical Statistics I
This course presents advanced statistical inference methods. Topics include: foundations of statistical inference and comparison of classical, Bayesian, and minimax approaches, point and set estimation, hypothesis testing, linear regression, linear classification and principal component analysis, MRF, consistency and asymptotic normality of Maximum Likelihood and estimators, statistical inference from noisy or degraded data, and computational methods (E-M Algorithm, Markov Chain Monte Carlo, Bootstrap). Prerequisite: APMA 2630 or equivalent.

Fall APMA2670 S01 15799 TTh 2:30-3:50(11) (B. Gidas)

2680 Mathematical Statistics II
The course covers modern nonparametric statistical methods. Topics include: density estimation, multiple regression, adaptive smoothing, cross-validation, bootstrap, classification and regression trees, support vector machines, and neural networks. The course will provide the mathematical underpinnings, but it will also touch upon some applications in computer vision/speech recognition, and biological, neural, and cognitive sciences. Prerequisite: APMA 2670

Spr APMA2680 S01 25637 Th 4:00-6:20(16) (B. Gidas)

2810 Seminars in Applied Mathematics
The courses mentioned below are graduate level seminars.

2810X Introduction to the Theory of Large Deviations
Fall APMA2810X S01 15800 ‘To Be Arranged’ (P. Dupuis)

2970 Preliminary Examination Preparation
For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing for a preliminary examination.

Fall APMA2970 S01 11628 ‘To Be Arranged’
Spr APMA2970 S01 21241 ‘To Be Arranged’

2980 Research in Applied Mathematics
Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course.

Fall; Spr

2990 Thesis Preparation
For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing a thesis.

Fall APMA2990 S01 11629 ‘To Be Arranged’
Spr APMA2990 S01 21242 ‘To Be Arranged’

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
investigating layered urban topographies saturated with collective monumental building projects, and other commemorative practices, with comparative examples from pre-hispanic and Islamic regions. Considering contemporary approaches to urban space, we will explore urbanism in the ancient Near East, Africa, and the Middle East and its "periphery" such as Muslim Spain, sub-Saharan Africa, Central Asia, and the Indian sub-continent.

Interested students must register for RELS 1520 S01 (CRN 25519).

 Interested students must register for JUDS 1440 S01 (CRN 15684).

Interested students must register for EGYT 1470 S01 (CRN 15629).

Interested students must register for RELS 1550 S01 (CRN 25444).

Interested students must register for EGYT 1300 S01 (CRN 15568).

Interested students must register for RELS 1552 S01 (CRN 15572).
completed at least two university courses in archaeology, engineering, or any related discipline. Enrollment is limited to 20. Priority will be given to admitting a proportional number of students from archaeology, engineering and related fields.

Spr ARCH1860 S01 23818 MWF 10:00-10:50(03)

1900 The Archaeology of College Hill
A training class in field and laboratory techniques. Topics include the nature of field archaeology, excavation and survey methodologies, archaeological ethics, computer technologies (such as GIS), and site and artifact analysis and conservation. Students will act as practicing archaeologists through the investigation of local historical and archaeological sites in the College Hill area (e.g. the First Baptist Church of America and the John Brown House). Prerequisite: A previous course in Archaeology and the Ancient World or Anthropology is required. Restricted to sophomores, juniors, and seniors, except by permission of the instructor. Enrollment limited to 15.

Fall ARCH1900 S01 10710 M 3:00-5:20(13)

1902 Material Culture Practicum (ANTH 1621)
Interested students must register for ANTH 1621 S01 (CRN 25582).

1970 Individual Study Project in Old World Archaeology and Art
Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course.

Fall; Spr

1990 Senior Honors Thesis in Archaeology and the Ancient World
Honors students in Archaeology and the Ancient World who are completing their theses should enroll in this course in their final semester. The subject of the thesis and program of study will be determined by the needs of the individual student. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course.

Spr

(Primarily for Graduates)

2006 Principles of Archaeology (ANTH 2501)
Interested students must register for ANTH 2501 S01 (CRN 13138).

2010 Problems in Old World Archaeology

2010G Ethical Issues in Archaeology
Graduate students will certainly confront ethical, legal, and professional issues in the course of their own doctoral research and subsequent careers. This seminar offers a forum for open, but well-informed, discussion of a variety of significant ethical problems and dilemmas currently facing the discipline of archaeology worldwide. We will give attention to practical matters arising from archaeological field research, as well as a wide range of difficult questions concerning ownership and presentation of the past. Open to graduate students only.

Spr ARCH2010G S01 25629 M 3:00-5:20(13) (J. Cherry)

2020 Research Seminar in Greek Art and Architecture

2020E Economy and Trade in the Later Bronze Age Aegean and East Mediterranean
Beginning with an examination of the workings of the Mycenaean palace economy, including the evidence of Linear B documents, this seminar will then turn to a more inclusive consideration of trade and exchange involving Aegean states and their counterparts further east, and of the nature and extent of cultural interaction between them during the later Bronze Age (ca. 1600-1100 BC).

Fall ARCH2020E S01 15795 W 3:00-5:20(14) (J. Cherry)

2040 Research Seminar in Old World Archaeology

2040H Imperial Cities
What does Athens have to do with Jerusalem? Tenochtitlan with London? Beijing with Rome? Cuzco with Persepolis? All are capital cities of imperial systems, each shaping and reflecting the nature of the empire, its ruling ideology, and its social and economic infrastructure. The category of "imperial cities", however, must extend beyond these primate centers, to consider the urban networks in play across each empire's territorial reach, and beyond.

Fall ARCH2040H S01 16021 Th 4:00-6:20(13) (S. Alcock)

2110F Greek Palaeography and Premodern Book Cultures (GREK 2110F)
Interested students must register for GREK 2110F S01 (CRN 25309).

2300 The Rise of the State in the Near East
A seminar on the origins of food production and complex societies in the period from ca. 9000 to 2200 B.C. Topics will include: the first domestication of plants and animals, the earliest village communities in the Levant, Anatolia, and Mesopotamia, and the economic and social transformations accompanying the emergence of urbanized state societies in fourth and third millennia B.C. Mesopotamia.

Spr ARCH2300 S01 25631 Th 4:00-6:20(16)

2410 Archaeologies of Place
Places are understood as sites of human interaction in and with the material world. This course explores how archaeological and ethnographic research addresses material complexities and cultural meanings of places in the context of broader landscapes. We will investigate critical theories of place and landscape, while working with fieldwork data from the ancient Near East, particularly Hittite Anatolia. Enrollment limited to 20.

Spr ARCH2410 S01 25632 W 3:00-5:20(14)

2501A Problems in Archaeology: Culture, Contact and Colonialism (ANTH 2500A)
Interested students must register for ANTH 2500A S01 (CRN 25601).

2511 Circumpolar Archaeology (ANTH 2510)
Interested students must register for ANTH 2510 S01 (CRN 15770).

2970 Preliminary Examination Preparation
For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing for a preliminary examination.

Fall ARCH2970 S01 10639 "To Be Arranged"
Spr ARCH2970 S01 20496 "To Be Arranged"

2980 Individual Reading
Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course.

Fall; Spr

2982 Individual Reading for Dissertation
Reading leading to selection of the dissertation subject. Single credit. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course.

Fall; Spr

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Biology and Medicine

(Primarily for Undergraduates)

0030 Principles of Nutrition
Introduces the basic principles of human nutrition, and the application of these principles to the specific needs of humans, and the role of nutrition in chronic diseases. Provides an overview of the nutrients and their use by the human body. Also examines the role of nutrients in specific functions and disease states of the body. Not for biology concentration credit. Enrollment limited to 100. LILE

Fall BIOL0030 S01 11371 TTh 9:00-10:20(08) (M. Flynn)

0060 Introduction to Human Physiology
An introduction to human physiology aimed primarily at undergraduates who are not concentrating in biology. Topics include basic cardiovascular, respiratory, kidney, gastrointestinal, endocrine, and neuromuscular function, as well as aspects of reproduction and exercise physiology. Not for biology concentration credit. BIOL 0060 should not be taken following BIOL 0800 or the equivalent.

Sum BIOL0060 S01 60276 MTWTh 9:00-11:00 (A. Sobieraj)

0080 Biotechnology Management
An examination of the pharmaceutical, biotechnology, and medical product industries: what they are, how they function, whence they originate, and various perspectives on why some succeed and others fail. Pathways from lab-bench to marketplace are described as are the pervasive influences of the FDA, patent office, and courts. Extensive reading; emphasis on oral presentation. Primarily intended for students planning a career in biomedical industry. Not for biology concentration credit. Students MUST register for the lecture section and the conference. Enrollment limited to first year students.

Spr BIOL0080 S01 20990 MWF 12:00-12:50(05) (B. Bready)

0170 Biotechnology in Medicine
Introduces undergraduates to the main technological advances currently dominating the practice of medicine. Provides an overview of the objectives, techniques, and problems related to the application of biomedical technology to the diagnosis and treatment of disease and the contemporary health care industry. Topics include: pharmaceutical development and formulation; organ replacement by prosthesis and transplantation; medical imaging; tissue engineering, therapeutic cloning, regenerative medicine; stem cells; societal, economic, and ethical issues. Students MUST register for the lecture section and a conference. This course does carry Biology concentration credit.

Fall BIOL0170 S01 11393 MWF 12:00-12:50(12) (B. Zielinski)

0190 Biology Foundations Courses
Students beginning in college-level biology are encouraged to choose a section of BIOL 0190, courses that introduce biological sciences within the framework of particular topics. BIOL 0190 courses do carry concentration credit in biology programs. In order to assure student/faculty interaction, these sections are limited in size. BIOL 0190 courses are often suitable for students entering with AP biology credit. Some of these courses are designated as First Year Seminars.

0190A Adaptation to the Environment
Examines the diverse natural habitats on our planet and explores the biological adaptations of animals that live in them. Considers environments such as the deep sea, high altitude, the arctic, the intertidal zone, and hot deserts. Explores the strong link between life processes and the physical constraints of pressure, oxygen availability, temperature, salinity, and water availability. Enrollment limited to: 25.

FYS LILE

Sum BIOL0190A S01 60360 MTWTh 1:00-3:00 (J. Taylor)

0190E Botanical Roots of Modern Medicine
This course will explore a variety of medicinal plants found throughout the world, the diverse cultures that use them in their daily lives and the scientific underpinnings of these medicinal uses. In conjunction with readings, students will gain a hands-on approach in lab, observing, identifying and growing these plants. Enrollment limited to: 20. Fall enrollment reserved for First Year students only. Students MUST register for the lecture section and the lab.

FYS

Fall BIOL0190E S01 11430 T 4:00-6:20(13) (F. Jackson)
Spr BIOL0190E S01 21029 T 4:00-6:20(16) (F. Jackson)

0190F Darwinian Medicine
Explores evolutionary explanations of why we get sick, and how this can shape, or misshape, our interpretations of medicine. Draws on evolutionary genetics, population biology, molecular biology and physiology. This course will build on evolutionary biology and then focus on disease processes such as infection, aging, cancer, allergy, diabetes, and obesity. Enrollment limited to 20 first year students. Instructor's permission required.

FYS

Fall BIOL0190F S01 15857 TTh 2:30-3:50(11) (M. Tatar)

0190H Plants, Food, and People
Examines the selection, breeding, cultivation and uses of food plants. Discusses the effects on agriculture of pathogens, climate change, and loss of biodiversity. Considers whether enough food can be produced for a world population of potentially 10 billion, while sustaining biodiversity and environmental quality. Enrollment limited to 40. Instructor's permission required.

LILE

Fall BIOL0190H S01 15858 MW 3:00-4:20(13) (P. Heywood)

0190P Development of Scientific Theories: Context and the Individual
We will examine how the pace and shape of scientific progress is affected by the social/cultural context and the "personality" of the individual. We will look into how the interplay between society and the individual affects how scientific theories arise, are debated and are accepted. The course will initially focus on Charles Darwin and his theory of Natural Selection using the biography of Adrian Desmond and James Moore, "Darwin: The Life of a Tormented Evolutionist." Enrollment limited to 20 first year students.

FYS

Fall BIOL0190P S01 13702 TTh 2:30-3:50(11) (S. Helfand)

0200 The Foundation of Living Systems
A broad overview of biological systems, emphasizing patterns and processes that form the basis of life. Explores essentials of biochemistry, molecular, and cellular biology and their relationship to the larger issues of ecology, evolution, and development. Examines current research trends in biology and their influence on culture. Appropriate for all students interested in biology. Serves as a gateway course to much of the intermediate and advanced curriculum. Placement tests are offered (contact Jody_Hall@brown.edu); AP scores of 4 or 5 are equivalent to BIOL 0200. Students will be assigned to a lab section during the second week of class.

LILE

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
0280 Introductory Biochemistry
Lectures and recitation sections explore the mechanisms involved in the principles of macromolecular structure and function, the organization and regulation of pathways for intermediary metabolism, and the transfer of information from genes to proteins. It is expected that students have taken CHEM 0350 or are taking it concurrently. Students MUST register for a conference, and a lecture section.

0320 Vertebrate Embryology
Introduction to the developmental anatomy of vertebrate embryos, including humans, in an evolutionary context, through lecture, discussion and microscope slide study. Gametogenesis through germ layers and their organ system derivatives. Expected: BIOL 0200, or equivalent placement. Students MUST register for the lecture section and the lab. DVPS

0380 The Ecology and Evolution of Infectious Disease
We will survey the diverse biology of microbes responsible for human infectious disease, develop and apply ecological and evolutionary theory to infectious microbes, and provide practical experience interpreting and synthesizing the peer-reviewed scientific literature. The discovery of infectious microbes, the role of genetic novelty, population structure and transmission mode, and the influence of clinical therapies and host immune response will be considered. Evaluation will be based on preparation, participation, weekly student presentations, brief weekly written assignments, a midterm and a final. Expected: BIOL 0200 or equivalent. Enrollment limited to 25 freshmen and sophomores. Instructor permission required.

0390 Vertebrate Evolution and Diversity
An overview of vertebrate evolution that not only covers historical events, but also introduces various scientific concepts and modes of thought. Topics include past and present biodiversity, convergent evolution, biogeography, competition, continental drift, climatic change over time, the notion of evolution as progress, and a whole-animal approach to understanding evolutionary events. For freshmen (with AP Biology or equivalent) and sophomores; others by permission. Enrollment limited to 50. Instructor’s permission required.

0400 Biological Design: Structural Architecture of Organisms
Many questions about the workings of living creatures can be answered by joining math, physics, and biology. We will identify basic physical science concepts that help biologists understand the structure and function of animals, plants, and microorganisms, and use these to study how the physical world constrains and facilitates the evolution of the extraordinary design and diversity of organisms. For first and second year students; others by permission. Recommended background: BIOL 0200, or equivalent. Enrollment limited to 40. Instructor permission required.

0410 Invertebrate Zoology
A survey of invertebrate animals emphasizing evolutionary patterns and ecological relationships. Functional morphology, physiology, reproduction, development, and behavior of invertebrates will be examined. Laboratory exercises and two separate day-long field trips provide firsthand experience with the animals. Expected: BIOL 0200 or equivalent. Students MUST register for the lecture section and a lab.

0420 Principles of Ecology
The principles, concepts, and controversies involved in the study of the distribution and abundance of plant and animal populations and their integration into natural communities. Emphasizes interactions among organisms and the hierarchical nature of ecological processes affecting individuals, populations, and communities. Expected: BIOL 0200 (or equivalent) and MATH 0090. Lectures and weekly discussion, arranged.

0460 Insect Biology
Focuses on the characteristics that make insects unique and why more insect species have been described than all other organisms combined; the opportunity they provide to investigate diversity and adaptation within a group sharing common constraints; their abundance, small size, and short lifespans; their importance as agents of biological control, pollinators, agricultural pests, and disease vectors. Expected: BIOL 0200 or equivalent. Enrollment limited to 20. Students MUST register for the lecture section and the lab.

0470 Genetics
Instructors will discuss the principles, concepts, and controversies involved in the study of the genetic material, elements of genetic engineering, and evolutionary genetics. One laboratory session and one discussion session per week. Students should not plan to take BIOL 0470 after 1540. Expected: BIOL 0200 (or equivalent placement). Students will be assigned to Lab sections the first week of class.

0480 Evolutionary Biology
A broad introduction to the patterns and processes of evolution at diverse levels of biological organization. Topics covered include natural selection, adaptation, speciation, systematics, macroevolution, mass extinction events, and human evolution. Weekly discussion sections involve debates on original research papers. Occasional problem sets involve computer exercises with population genetics and phylogeny reconstruction. Expected: BIOL 0200 (or equivalent placement).

0500 Cell and Molecular Biology
This course examines the structure and function of the basic unit of an organism, the cell. An experimental approach is used to examine cellular functions, ranging from gene transcription, cell division and protein secretion, to cell motility, and signal transduction. Relevance to disease, biotechnological application, and social context will be considered. Expected: BIOL 0200 (or equivalent placement).

0510 Introductory Microbiology
Introduces role of microbes in our understanding of biology at the cellular and molecular level. Focuses on microbial significance for infectious disease, public health, genetics, biotechnology, and biogeochemical cycles. Laboratory involves basic microbiological techniques and selection and manipulation of microbes and their genes. Expected: BIOL 0200 (or equivalent placement); CHEM 0330. Students MUST register for the lecture section and the lab. Enrollment limited to 72.
**0800 Principles of Physiology**
Introduction to the function and integration of animal systems with an emphasis on mammals. Includes basic concepts in cell and organ system physiology as well as fundamentals of modern trends in physiological science. Emphasizes the constraints of physical and chemical principles to animal function at both the cellular and systemic levels. Expected: BIOL 0200 (or equivalent placement).

**0860 Diet and Chronic Disease**
This course addresses the relationship of food to the development and treatment of chronic diseases. Chronic diseases discussed are obesity, dyslipidemia/heart disease, diabetes mellitus, cancers and osteoporosis. Dietary recommendations for these diseases are critically assessed. For advanced undergraduates and graduate students. Enrollment limited to 20 juniors, seniors, and graduate students concentrating in Biology.

**0950 Independent Study in Science Writing**
Incorporates a nontechnical science journalism component into the BioMed curriculum. A series of four to six specific assignments are recommended, based on topics derived from another biology course taken previously by the student, whose instructor has agreed to serve as a BIOL 0950 sponsor. Assignments may include, for example, investigative or analytical reviews, or feature articles on ethical or social impacts of new discoveries. The student and instructor schedule meetings to discuss topics and due dates, review rough drafts, and evaluate completed work.

**1050 Biology of the Eukaryotic Cell**
Examines organelles and macromolecular complexes of eukaryotic cells with respect to structural and functional roles in major cellular activities. Emphasizes experimental basis for knowledge in modern cell biology using original literature, and discusses validity of current concepts. For advanced undergraduates and beginning graduate students. Complementary to BIOL 1270 and 1540. Prerequisites: BIOL 0280, 0470, 0500, or instructor permission. Graduate students register for BIOL 2050. Students MUST register for a conference, and a lecture section.

**1090 Polymer Science for Biomaterials**
Basic principles of polymer science and its application in medicine. Topics include basic polymerization chemistry, kinetics of polymerization and depolymerization with emphasis on bioerodible polymers, characterization of polymers by physical methods, bulk and surface properties, behavior of polymers in solutions, crystallization, gelation, and liquid crystals. Hands-on experience with polymer characterization. Note: In biology programs, this course carries physical science credit. Expected: CHEM 0350.
1160 Principles of Exercise Physiology
Application of the basic principles of physiology to the study of the response mechanisms of the human body during exercise. Topics include muscle and neural control, metabolism, energy sources, cardiovascular and respiratory effects, thermoregulation, and special topics (e.g., exercising at high altitude). Student presentations based on scientific articles are included. Expected: BIOL 0800 or written permission of the instructor.

Spr BIOL1140 S01 21155 T 4:00-6:20(16) (D. Hoffman-Kim)

Enrollment limited to 20. Instructor permission required.

1180 Comparative Animal Physiology
Comparative approach to the function and regulation of animal systems with an emphasis on vertebrates. Topics include circulation, gas exchange, neuromuscular function, excretion, acid-base and ion regulation, and temperature regulation. Considers the unity and diversity of physiological processes in animals differing both in phylogeny and environmental adaptation. Original papers are discussed. Expected: BIOL 0800 or equivalent.

Spr BIOL1180 S01 23571 W 3:00-5:20(14) (D. Jackson)

1190 Synaptic Transmission and Plasticity
Synapses are the means by which the nervous system communicates. In this seminar-style course, we will explore the molecular and physiological underpinnings of synaptic transmission. We will then examine ways in which synapses can modulate their strength during development, learning, and other adaptive processes. Expected: BIOL 0800 or NEUR 1020. Enrollment limited to 20. Instructor's permission required.

Fall BIOL1190 S01 11569 TTh 1:00-2:20(10) (J. Kauer)

1200 Protein Biophysics and Structure
Structural Biology is the science to determine three-dimensional structures of biomacromolecules, e.g., proteins, RNA and DNA. These structures enable biologists to understand and explore their function. Since proteins, RNA and DNA are the primary molecules of life, structural biology enables us to understand and influence these molecular machineries which form the basis of all biological process. Expected: BIOL 0280. Instructor's permission required.

Spr BIOL1200 S01 21260 Th 4:00-6:20(16) (W. Peti)

1210 Synthetic Biological Systems
A multidisciplinary course that combines science and engineering providing a solid foundation in a cutting edge field of biological engineering. Synthetic biology is a mixture of biology, chemistry, engineering, genetic engineering and biophysics. It builds on recent work in systems biology which involves the modeling of biological systems, but goes further in that it involves the construction and standardization of biological parts that fit together making complex systems. This course will combine classes, guest lectures and discussion lab visits to give students the best possible tools for understanding and applying research in synthetic biology. Expected: at least two courses in any of the key disciplines (biology, chemistry, physics, math, engineering, computer science) beyond the introductory level, and permission of the instructor.

Spr BIOL1220 S01 23572 MW 3:00-5:20(13) (G. Wessel)

1260 Physiological Pharmacology
Covers the physiology of human disease (e.g., Heart failure and arrhythmia; cancer signaling pathways with a focus on breast cancer; neurological disorders such as schizophrenia and Parkinson's disease) and discusses the pharmacology of the drugs used to treat the disease. A group of the most commonly prescribed drugs is discussed in terms of their fundamental modes of action and clinical importance. Expected: BIOL 0800.

Fall BIOL1260 S01 11571 TTh 10:30-11:50(09) (J. Marshall)

1270 Advanced Biochemistry
An advanced course in biochemistry, biochemical methods, and reading of the primary literature, featuring systematic coverage of the biochemistry of the central dogma, including DNA (replication, repair, recombination), RNA (regulation and mechanism of transcription, processing, turnover), and proteins structure, synthesis, modification, degradation, mechanisms of action, function). Lectures complemented by review sessions and laboratory exercises. Expected: BIOL 0280, CHEM 0350, 0360. Graduate students register for BIOL 2270. Students MUST register for the lecture section and a lab.

Fall BIOL1270 S01 11576 TTh 2:30-3:50(11) (A. Brodsky)

1310 Analysis of Development
Explores mechanisms underlying development. Topics: gamete interactions, establishment of body plans, cell signaling and tissue interactions, morphogenetic pattern formation, developmental regulation of gene expression, molecular control of tissue specification and diversification, and the evolutionary comparison of developmental processes. Primary literature will be discussed in sections. Laboratory, involves work with live embryos. Expected: BIOL 0200 (or equivalent), and one additional course in the area of genetics, embryology, cell biology, molecular biology. Graduate students register for BIOL 2310. Students MUST register for the lecture section and the lab. Expected: BIOL 0200; plus at least one of the following: BIOL 0280, 0310, 0320, 0470, 0500, 1050. Enrollment limited to 36. Instructor permission required. Students MUST register for a lab, and a lecture section.

Spr BIOL1310 S01 21157 TTh 9:00-10:20(08) (K. Wharton)

1410 Evolutionary Genetics
This course will focus on selected topics in molecular population genetics, molecular evolution, and comparative genomics. Classic and current primary literature at the interface of evolution and genetics will be discussed in a seminar format. The laboratory involves wet-lab exercises (allozymes, PCR- RFLP, sequencing), plus computer labs using DNA analysis packages. Students will prepare a final grant proposal on specific research interests. Expected: BIOL 0470 or 0480. Students MUST register for the lecture section and the lab. Enrollment limited to 20. Instructor's permission required.

Spr BIOL1410 S01 25698 TTh 1:00-2:20(10) (D. Rand)

1420 Experimental Design in Ecology
An overview and discussion of the basic principles used to design lab and field experiments in ecology and environmental science. Topics include: replication and statistical power, appropriate use of factorial designs, nonparametric methods, post hoc tests, natural versus manipulative experiments, experimental artifacts and impact study design. Discussions based on primary literature and a new text.

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
1470 Conservation Biology
Conservation Biology is the scientific study of the phenomena that affect the maintenance, loss, and restoration of biological diversity. Topics covered include: 1) the impacts of global warming, species invasions, and habitat destruction on biodiversity, 2) strategies developed to combat these threats, and 3) a consideration of key economic and ethical tradeoffs. Special attention will be paid to current debate and controversy within this rapidly emerging field of study. Readings will include the primary literature. A term-paper will be required. Prerequisite: BIOL 0420 or instructor permission. Enrollment limited to 30.

1480 Terrestrial Biogeochemistry and the Functioning of Ecosystems
Three fundamental multidisciplinary questions will be addressed: How do ecosystems work? What limits the growth of life on Earth? How are humans altering the framework in which all life exists? Earth is basically a closed chemical system, and the reactions that support life are fueled by sunlight. But added to this chemistry and physics is the tremendous influence of life. Living organisms create a complex atmosphere; the evolution of biological nitrogen fixation exponentially increased how many organisms could exist, and the soils that support human food production developed only by biologically-mediated processes. Throughout Earth's 4.5 billion-year history changes in Earth's basic biogeochemical processes have been fairly slow. Under our inattentive approach, we have almost instantaneously altered all of the major element cycles. We will focus heavily on what these changes mean for life on Earth. Instructor permission required. Enrollment limited to 20.

1500 Plant Ecology
An in-depth look at plant ecological strategy, focusing on the anatomical and physiological adaptations of plants to particular environments. Additional topics include plant-plant interactions, historical biogeography, and community assembly processes. A comparative, phylogenetic approach is emphasized. Lectures present a broad overview of topics, and discussions focus on current outstanding problems. Lab exercises provide hands-on experience in designing experiments, measuring plant performance, and scientific writing. Required laboratory hours to be arranged by the instructor. Expected: BIOL 0430 or BIOL 0440. Enrollment limited to 15.

1520 Innate Immunity
Innate immunity is the initial response to microbes that prevents infection of the host. It acts within minutes to hours, allowing the development of the adaptive response in vertebrates. It is the sole mechanism of defense in invertebrates such as insects. The components and mechanisms dictating this response are explored. Prerequisite: BIOL 0530. Instructor permission required.

1540 Molecular Genetics
Covers advanced genetic and molecular methods and their use in analysis of complex biological phenomena such as development, signaling, behavior, and disease. Discusses how these techniques are applied across an array of organisms, with special emphasis on the major eukaryotic genetic model systems (Drosophila, nematodes, mouse, yeast, Arabidopsis). Uses primary research literature to analyze the design of forward- and reverse-genetic approaches to discover novel gene function. For advanced undergraduates and beginning graduate students. Prerequisite for undergraduates: BIOL 0470 or instructor permission. Expected background: any of BIOL 0280, 0500, 1050, or 1310. Graduate students should register for BIOL 2540.

1550 Biology of Emerging Microbial Diseases
Emerging diseases of the health of human populations in less developed countries and are expected to have similar effects worldwide. Rising incidence of "new" diseases underscores the need for knowledge of infection mechanisms and their outcomes. Focuses on biochemical, genetic, cellular and immunological events of emerging pathogens and host responses. Prerequisites: BIOL 0470 or BIOL 0530, or instructor permission.

1560 Virology
Emphasizes the understanding of molecular mechanisms of viral pathogenesis. Begins with a general introduction to the field of virology and then focuses on the molecular biology of specific viruses that are associated with human disease. Lectures based on current literature. Prerequisite: BIOL 0280, 0470, or 0530, or instructor permission.

1580 Animal Locomotion
How and why do animals run, jump, swim and fly? Physiology, anatomy, ecology, and evolutionary history all influence, and are influenced by, the way animals move around. We will integrate analyses from many levels of biological organization - from molecular motors, through bone-muscle systems, to biogeography - with methods and approaches from mechanics, fluid dynamics, and robotics. Expected: BIOL 0800 and PHYS 0030. Enrollment limited to 20. Not open to beginning graduate students. Prerequisite for undergraduates: BIOL 0530 or BIOL 0470 or BIOL 0500. Prerequisite for beginning graduate students: BIOL 0530 or BIOL 0470 or BIOL 0500.

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
1870 Techniques in Pathobiology
A methodology course featuring laboratory and lecture instruction in established and leading-edge technologies. Examples: flow cytometry (multi-parameter analysis, cell sorting, DNA analysis, apoptosis analysis); molecular biology (PCR, in situ hybridization, southern blotting, cytogenetics, gene cloning, bioinformatics); digital imaging (image acquisition, processing and analysis); light microscopy (confocal, immuno-histochemistry); transmission electron microscopy (immuno/lectin/enzyme cytochemistry); scanning electron microscopy (including x-ray microanalysis). Enrollment limited to 16.

Spr BIOL1870 S01 21170 TTh 1:00-3:50(10) (C. Jackson)

1880 Comparative Biology of the Vertebrates
The biology, structure, and evolutionary history of the vertebrates considered phylogenetically, emphasizing evolution of the major body systems. Stresses an evolutionary approach to the correlation of structure and function with environment and mode of life. Labs include dissection of several different vertebrates, comparative osteological material, and a museum trip. Prerequisites: BIOL 0320 or 0800, or instructor permission. Freshmen and sophomores must obtain instructor permission to register. Students MUST register for the lecture section and the lab. Enrollment limited to 64.

Spr BIOL1880 S01 22410 MWF 10:00-10:50(03) (C. Janis)

1920 Topics in Social Studies of Biology
Topics each year vary by section. Enrollment limited to 20 juniors and seniors.

1920A Imperialism and Public Health in Africa: Past and Present
This interdisciplinary course explores the history of public health in changing imperial contexts in Africa, focusing on the following questions: What are the consequences of imperial science for the production of public health knowledge about peoples, their lives, and their human possibilities? What was the role of public health in producing knowledge about race, racial difference, and disease? A course in Science and Technology Studies and/or Africana Studies strongly recommended. Enrollment restricted to third and fourth year students and limited to 20. Written permission required. An application for entry will be distributed in the first day of class. Not for concentration credit as a biology course.

Spr BIOL1920A S01 25705 W 3:00-5:20(14) (L. Braun)

1920B Health Inequality in Historical Perspective
This seminar course takes a historical perspective to explore the fundamental causes of health inequality in the US. We will draw on a series of case studies from the 19th century to the present to examine the socio–political and economic context of health and disease, focusing specifically on how race, class, and gender shape the experience of health, notions of disease causality, and public health responses. Topics include the health consequences of immigration, incarceration, race-based medicine, the Chicago heat wave, and Katrina. BIOL 0200 and previous course work in Africana Studies and/or Science and Technology Studies preferred. Enrollment is restricted to second and third year students and is limited to 20 students. Written permission required. An application for entry will be distributed on the first day of class. Not for concentration credit as a biology course.

Fall BIOL1920B S01 15868 W 3:00-5:20(14) (L. Braun)

1920C Social Contexts of Disease
What shapes our understandings of disease? What makes a disease real? How might we explain the demise of formerly prevalent diseases (e.g. neurasthenia) and the arrival of others (e.g., fibromyalgia)? How do politics, technologies, and institutions like hospitals affect conceptions of disease and structure their treatment? We will examine the impact of social context on patients’ experiences of disease, as well as clinical, scientific, and public health approaches to disease. We will also consider disease in relation to important social relations such the doctor-patient relationship, the power of the state to monitor and regulate disease, disparities in the burden of disease, and the cultural care of the body. Enrollment limited to 20 juniors and seniors, required instructor permission; AB Human Biology seniors intending this as capstone will have first priority; others by permission.

Fall BIOL1920C S01 16045 M 1:00-3:30(06) (D. Weinstein)

1940 Special Topics

1940X Topics in Conservation Science
This seminar will explore our current understanding in conservation science, which ranges from the biology of invasive and threaten species to management and policy options. The course will cover the topics of: (1) managed relocation of species and the creation of novel ecosystems, (2) ecosystem–based management, and (3) consequences of biofuel production on biodiversity. Instructor permission required.

Fall BIOL1940X S01 14810 ‘To Be Arranged’ (O. Sala)

1950 Directed Research/Independent Study
Directed research projects supervised by individual faculty members in the Division of Biology and Medicine. Required for Sc.B. programs in Biology, Biophysics, Marine Biology, Applied Math-Biology, Biochemistry and Molecular Biology, Bioengineering, Computational Biology, and Human Biology; optional for others. Opportunities are available in both campus and hospital-based based. Projects can serve as basis for Honors theses. Information on specific opportunities and faculty research areas are found in a research database at bms.brown.edu/bu/pages/research.html. The site also offers a student manual, proposal forms, budget request forms, and information about Honors. Individual consultations can be scheduled with Dean Thompson. Required: A completed proposal form, sponsor's and concentration advisor's approval, and written permission from Dean M. Thompson (following review of proposal) prior to registering for any section of this course. Instructor's permission required.

Fall 1960 Directed Research/Independent Study
Please see description for BIOL 1950. Instructor’s permission required.

Spr (Primarily for Graduates)

2010 Quantitative Approaches to Biology
Graduate level introduction to quantitative and computational methods in modern biology. Topics include Programming, Modeling, Algorithms, Bioinformatics, Applied Statistics, Structural Biology, Molecular Dynamics, Enzyme Kinetics, and Population and Quantitative Human Genetics. Preference is given to graduate students in Molecular Biology, Cell Biology and Biochemistry and Molecular Pharmacology, Physiology, and Biotechnology. Limited to 20 students. Instructor permission required.

Fall BIOL2010 S01 11610 MWF 3:30-4:50(13) (J. Sedivy)

2030 Foundations for Advanced Study in the Life Sciences
A double-credit graduate course on multidisciplinary experimental approaches to biological questions. Focusing on primary literature, the mechanism and regulation of basic cellular processes involving nucleic acids (synthesis, structure, maintenance and transmission) and proteins (synthesis, maturation, function) and their integration into more complex events (signaling, organelle biogenesis and inheritance, and cell cycle control) will be presented. Discussion sections complement lectures.

Fall BIOL2030 S01 11609 F 10:25-11:35 &
2050 Biology of the Eukaryotic Cell
(Undergraduate students should register for BIOL 1050.) Students MUST register for a conference, and a lecture section.

Fall BIOL2050 S01 11611 TTh 1:00-2:20(10) (S. Gerbi)

2060 Ultrastructure/Bioimaging
This course examines microscopy and image analysis in the life sciences. Theoretical and practical aspects of microscopy will be discussed. Students will obtain hands-on experience with human microscopy, light microscopy, fluorescence microscopy, and confocal microscopy. Students will learn to display images in 3D. For graduate students and advanced undergraduates. Instructor permission required. Prerequisite: BIOL 0500 or 1050.

Spr BIOL2060 S01 25734 M 3:00-5:20(13) (R. Creton)

2110 Drug and Gene Delivery
Topics in drug delivery systems including history of the field, advantages of controlled release technology, stabilization and release of proteins, fabrication methods, regulatory considerations, economic aspects, patents and intellectual property rights, and more. Prepares students for research in industry and academia, and offers information for consultants in the field. Expected: BIOL 1090, 1120; CHEM 0350, 0360.

Fall BIOL2110 S01 11616 M 3:00-5:20(13) (E. Mathiowitz)

2130 Techniques in Molecular and Cell Science
This course provides hands-on laboratory training in state-of-the-art techniques in molecular and cellular sciences, and reinforces this training with didactic lectures that stress key principles, the quantitative approach and the most exciting applications of these technologies in the context of current research. Areas covered include cell culture, tissue engineering, DNA cloning, gene therapy, quantitative assays, microscopy and image analysis. Enrollment is limited to 12; written permission required. Permission will be granted after the first class. Students MUST register for the lecture section and a lab. Prerequisite: BIOL 0800 and instructor's permission.

Fall BIOL2130 S01 15894 ‘To Be Arranged’ (J. Morgan)

2140 Principles in Experimental Surgery
An introduction to the principles and practice of surgery, sterile technique, anesthesia, and laboratory animal care. Intended to provide highly supervised, hands-on experience in techniques for humane handling and surgical management of experimental animal subjects. Emphasizes surgical technique, anesthesia technique, and laboratory animal medicine. Primarily for graduate students. Limited to 6. Students MUST register for the lecture section and the lab. Prerequisite: BIOL 0800 and instructor's permission.

Spr BIOL2140 S01 21228 T 4:00-6:20(16) (J. Harper)

2150 Scientific Communication
Focused on the effective dissemination of scientific information. Through practical examples of activities common to the profession (writing a grant proposal, presenting research work orally, and preparing a critical review of a submitted scientific manuscript), students will develop the skills necessary to effectively communicate scientific ideas, experiments and results. Each of the activities will be dissected into key sets that will be individually developed with the aid of interactive discussions and peer review. Enrollment limited to 12 graduate students. Instructor's permission required.

Fall BIOL2150 S01 14407 W 1:00-3:50(06) (T. Serio)

2170 Molecular Pharmacology and Physiology
Fundamental concepts in pharmacology and physiology from the cellular/molecular level to organ systems. Required of first-year graduate students in Molecular Pharmacology and Physiology. Instructor’s permission required.

Fall BIOL2170 S01 11617 MW 12:30-1:50(12) (A. Zimmerman)

2200 Current Topics in Biochemistry
Enrollment Limited to 20.

2200A Molecular Biology and Chemistry
A critical evaluation of contemporary research in biochemistry, molecular biology, and structural biology. Intensive reading and discussion of the current literature, critical analysis, and student presentations in seminars. Advanced undergraduates with permission. Enrollment limited to 20.

Spr BIOL2200A S01 25727 ‘To Be Arranged’ (G. Jogl)

2200B Post-Transcriptional Regulations of Gene Expression
Enrollment limited to 20.

Spr BIOL2200B S01 25728 ‘To Be Arranged’ (J. Laney)

2210 Current Topics in Molecular Biology
Enrollment Limited to 20.

2210A Molecular Mechanisms in Site–Specific Recombinations and DNA Transposition
Enrollment limited to 20.

Fall BIOL2210A S01 15891 ‘To Be Arranged’ (A. Landy)

2210B Ribosomes
Enrollment limited to 20.

Spr BIOL2210B S01 25729 ‘To Be Arranged’ (A. Dahlberg)

2230 Artificial Organs/Biomaterials/Tissue Engineering Seminar
Required of all first- and second-year graduate students in the Artificial Organs/Biomaterials/Cellular Technology graduate program, and open to others. Concepts of drug delivery and tissue engineering, implantation biology, and cellular therapy, as well as the research projects directed by program faculty. Students present research seminars and participate in presentations by outside speakers. Includes Journal Club activities. Enrollment limited to 20.

Fall BIOL2230 S01 11624 ‘To Be Arranged’ (E. Mathiowitz)

2240 Artificial Organs/Biomaterials/Tissue Engineering Seminar
See Artificial Organs/Biomaterials/Tissue Engineering Seminar (BI02230) for course description. Enrollment limited to 20.

Spr BIOL2240 S01 21392 ‘To Be Arranged’ (E. Mathiowitz)

2270 Advanced Biochemistry
(Undergraduate students should register for BIOL 1270.) Instructor's permission required.

Spr BIOL2270 S01 25730 TTh 2:30-3:50(11) (A. Brodsky)

2290 Current Topics in Cell Biology
Topics vary from semester to semester, with sections offered each semester. Enrollment limited to 20.

2290D MicroRNA Regulation of Germ Cells and Development
Enrollment limited to 20. Instructor’s permission required.

Fall BIOL2290D S01 15892 ‘To Be Arranged’ (M. Johnson)

2290E Signal Transduction
Enrollment limited to 20.

Spr BIOL2290E S01 25731 ‘To Be Arranged’ (A. DeLong)
2310 Analysis of Development
(Undergraduate students should register for BIOL 1310.) Students MUST register for a lab, and a lecture section. Instructor’s permission required. Enrollment limited to 36.

Spr BIOL2310 S01 21250 TTh 9:00-10:20(08) (K. Wharton)

2320 Current Topics in Developmental Biology
A critical evaluation of current research trends in developmental biology conducted in seminar/discussion format. Topics vary each semester. Expected: an advanced course in cellular, molecular biology, or genetics. For graduate students and qualified undergraduates with permission.

2320A Cell Fate and Lineage Decisions in Neural Development and Neurological Diseases
A critical inquiry into systems biology and it's applications to development and evolution are the basis for this graduate-level seminar. Student–led discussion topics include, among others, gene regulatory networks, self–organizing biological systems, evolution of gene networks, organisal interactomes, computational analysis and modeling. Enrollment limited to 20. Instructor permission required.

Fall BIOL2320A S01 15893 ‘To Be Arranged’ (M. Zervas)

2320D The Biology of Aging
Studying the mechanisms underlying the process of aging promises to be one of the next great frontiers in biomedical science. Understanding the biology of aging is important not only for the long-term possibility of increasing life span, but for the more immediate benefits it will have on age-related diseases. As demographics of industrialized countries have changed, age-related diseases such as cancer, cardiovascular disease, stroke, osteoporosis, arthritis and Alzheimer’s disease have assumed epidemic proportions. A thorough understanding of the aging process is an important pre-requisite for designing rational therapeutic interventions for the treatment of these age-related disorders. We will focus on examining the biology of aging primarily through the examination of treatments of a molecular, cellular, genetic and demographic nature. Lectures and presentations are based on reading of the primary and secondary literature. Advanced undergraduates with permission of the instructor. Enrollment limited to 20.

Spr BIOL2320D S01 23306 ‘To Be Arranged’ (S. Helfand)

2430 Topics in Ecology and Evolutionary Biology
Current literature in ecology, behavior, and evolutionary biology is discussed in seminar format. Topics and instructors change each semester. Representative topics have included: structuring of communities, biomechanics, coevolution, quantitative genetics, life history strategies, and units of selection. Expected: courses in advanced ecology and genetics. Instructor’s permission required. Enrollment limited to 20.

Fall BIOL2430 S01 11637 F 2:00-3:50(07)

2440 Topics in Ecology and Evolutionary Biology
See Topics In Ecology And Evolutionary Biology (BIOL 2430) for course description. Instructor’s permission required. Enrollment limited to 20.

Spr BIOL2440 S01 21251 F 2:00-3:50(07)

2470 Current Topics in Genetics and Genomics
A critical evaluation of research in genetics and genomics in a seminar/discussion format. Specific focus will vary and will reflect areas of interest to the field, faculty and students in the genetics and genomics. Topics may include mechanisms of genre regulation, evolutionary genetics and genomics, genetic dissection of development in complex organism, dosage compensation, genetic and genomic analysis of gene and protein regulatory networks, chromosome transmission, interactions between genetic and epigenetic mechanisms. Prerequisites: BIOL 0470 and BIOL 1540.

Spr BIOL2470 S01 25732 ‘To Be Arranged’ (W. Fairbrother)

2480 Current Topics in Molecular Genetics
Critical evaluation of research in genetics and genomics, and related topics in a seminar/discussion format. Topics vary each semester. Expected: Strong background in genetics, e.g. both BIOL 0470 Genetics and BIOL 1540 Molecular Genetics, or equivalent. For graduate students; undergraduates with permission of the instructor. Enrollment limited to 20.

2480D Molecular Neurogenetics
Enrollment limited to 20. Instructor permission required.

Spr BIOL2480D S01 25733 ‘To Be Arranged’ (R. Reenan)

2490 Current Topics in Cell Biology

2490A Nuclear Hormone Receptors in Growth, Differentiation and Disease
Key developmental and homeostatic hormones such as steroid hormones (e.g. estrogen, testosterone, glucocorticoids), and lipophilic non-steroids (e.g. retinoic acid, thyroid hormone) act through receptors that directly bind DNA and control gene expression. This course examines the activities, structures, functions, and mechanisms of action of these Nuclear Hormone Receptors and the consequences of alterations in protein or hormone function. Approaches span genetics, biochemistry, genomics, proteomics, and developmental biology.

Spr BIOL2490A S01 25735 ‘To Be Arranged’

2540 Molecular Genetics
(Undergraduate students should register for BIOL 1540.) Instructor’s permission required.

Spr BIOL2540 S01 21252 TTh 1:00-2:20(10) (J. Bender)

2640 Topics in Microbiology and Immunology
Topics vary each year.

2640A Viral Immunology
Viral Immunology is an advanced topics course in Microbiology and Immunology which will be focused on viral immunology. Weekly meetings will cover different issues concerning defense against viral infections and pathology related to viral infection, with focus on viral-host interactions. Topics will be selected to present either important basic concepts in the context of immune responses and/or major challenges in controlling viral infections. Recent advances in understanding virus-host interactions, host responses to viruses, cytokine regulation of immune responses or cytokine-mediated pathology during viral infections will be emphasized.

Fall BIOL2640A S01 15895 ‘To Be Arranged’ (C. Biron)

2840 Topics in Pathobiology

2840F Pathobiological Basis of Disease: Intrinsic and Environmental Regulators

Spr BIOL2840F S01 24611 ‘To Be Arranged’ (S. DeLaMonte)

2840G Small Wonders: Science, Technology, and Human Health Impacts of Nanomaterials
A multidisciplinary course focusing on nanomaterials as enabling components in emerging nanotechnologies. Covers major classes of nanomaterials, their synthesis, processing, and properties. The fundamental interactions of nanoscale structures with biological molecules, cells, and whole organisms will be explored. Suitable for students in engineering, physical sciences, or biology. Primarily for graduates. Undergraduate enrollment by written permission. Enrollment limited to 20.

Fall BIOL2840G S01 15896 ‘To Be Arranged’ (R. Hurt)
**2840H Human Reproduction Biology and Toxicology**
This seminar is primarily intended for graduate students with a solid background in the life sciences and with some knowledge of human physiology. The course will review basic human female and male reproductive systems and methods in assessment of reproductive status. We will discuss assisted reproductive techniques and launch into the topics of various toxicants and their impact on reproductive development and function. Enrollment limited to 20.

**2850 Introduction to Research in Pathobiology**
Introduces incoming pathobiology graduate students with research opportunities in the laboratories of program faculty. Consists of seminars with individual faculty members in the graduate program in pathobiology. Required background reading of recent papers lead to a discussion of current research in the faculty member’s laboratory. Additional discussions include safety and ethical issues in research. Open only to first-year graduate students in the program in pathobiology.

**2860 Molecular Mechanisms of Disease**
Examines research and modern techniques, emphasizing infectious disease and environmental exposures relating histopathology with molecular pathogenesis: cell injury, inflammation, thrombosis and vascular disease, cancer, and toxicology. Based on BIOL 1860 lectures plus discussion section. Expected: BIOL 1290, 2050 (other 1000-level biology course with approval). Textbook plus primary lecture. Required for Pathobiology graduate students, written permission for other graduate or M.P.H. students.

**2890 Thesis Preparation**
For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing a thesis.

**2900 Thesis Preparation**
For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing a thesis.

**3010 Systemic Pathology**
First-semester systemic pathology course building on the general principles of disease introduced in general pathology IMS-1. Objectives include learning the classification of systemic disease according to basic pathological mechanisms, describing and explaining the functional and structural changes produced by the most common diseases, and enhancing the ability to diagnose and treat patients. Runs in parallel with pathophysiology BIOL 3500; covers four organ system segments: cardiovascular, renal, and pulmonary and supporting structures.

**3640 Doctoring I**

**3641 Integrated Medical Sciences I - Comprehensive**

**3642 Integrated Medical Sciences I - Scientific Foundations of Medicine**

**3643 Integrated Medical Sciences I - Histology**

**3644 Integrated Medical Sciences I - Human Anatomy**

**3645 Integrated Medical Sciences I - General Pathology**

**3650 Doctoring II**

**3651 Integrated Medical Sciences II - Comprehensive**

**3652 Integrated Medical Sciences II - Brain Sciences**

**3653 Integrated Medical Sciences II - Microbiology/Infectious Diseases and Epidemiology**

**3654 Integrated Medical Sciences II - Endocrine Sciences**

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
1070 The Burden of Disease in Developing Countries
Defines and critically examines environmental, epidemiologic, demographic, biomedical, and anthropological perspectives on health and disease in developing countries. Emphasis on changes in the underlying causes of morbidity and mortality during economic development. Focuses on the biosocial ecology of diseases. Guest lecturers cover different diseases and public health perspectives. Enrollment limited to 70.

Special application form available at the International Health Institute website: bms.brown.edu/ihi/

No students will be pre-registered for PHP 1070 before the first day of class. The instructor will decide which students will be permitted to register after the first day of class. The decision will be based on the replies on the permission form and its date of submission. The required form must be submitted by noon of the first day of class, and should be submitted via campus mail: International Health Institute, Box G-S121, or dropped off at the office of the Dept of Community Health, 2nd floor of 121 South Main St.

Fall PHP1070 S01 12646 MW 8:30-9:50(02) (S. McGarvey)

1100 Comparative Health Care Systems
Focuses on principles of national health system organization and cross-national comparative analysis. Emphasizes application of comparative models to the analysis of health and health-related systems among nations at varying levels of economic development and health care reform. Addresses research questions related to population health and systems' performance. Questionnaire completion required. Enrollment limited to 30. Instructor’s permission required.

DPVS

Spr PHP1100 S01 21747 T 12:00-2:20(10) (S. Allen)

1320 Survey Research in Health Care
An introduction to the methodology of survey research as it is conducted by social scientists and epidemiologists. Provides an overview of all aspects of study design and instrument development as well as an introduction to statistical analysis of survey data. Students should take PHP 0320 and fulfill the department's statistics requirement prior to taking or concurrently with this course.

Fall PHP1320 S01 12647 TTh 10:30-11:50(09) (S. Allen)

1500 Emergency Medical Systems: An Anatomy of Critical Performance
Problems and issues surrounding delivery of emergency medical services in U.S. Topics: cost of illness; rationing health care; living wills; malpractice and its affects; access to health care and emergency care. Priority to community health concentrators and PLME students pursuing MPH degree. Enrollment limited to 60.

Spr PHP1520 S01 22482 W 3:00-5:20(14) (B. Becker)

1530 Case Studies in Public Health: The Role of Governments, Communities and Professions
This course provides an integrated knowledge of the public health's development, policy, practice and infrastructure and its relationship to medical care, social services and the environment. The matrix approach juxtaposes public health content (e.g., infectious disease) and public health tools (e.g., behavioral theory, policy/advocacy/epidemiology/quality improvement/program planning) using case studies. It aims to strengthen students' capacity to apply a population-based viewpoint to public health practice. Prerequisite: PHP 0320. Enrollment limited to 40.

Spr PHP1530 S01 23500 M 3:00-5:20(13) (R. Marshall)

1680 Social and Community Medicine
A series of seminars on major current issues in public health and health care delivery.

1680I Pathology to Power: Disability, Health, and Community
This course offers a comprehensive view of health and community concerns experienced by people with disabilities. Guest speakers, site visits, and hands on field research involving interactions with people with disabilities will facilitate the students gaining a multi-layered understanding of the issues faced by people with disabilities and their families.

Fall PHP1680I S01 13225 W 3:00-5:20(14) (B. Becker)

1680N Tobacco, Smoking, and the Evil Empire
Reviews the epidemiology of smoking and nicotine addiction and briefly examines its neurobiological and behavioral underpinnings. Covers prevention efforts and state-of-the-art treatment interventions with an emphasis on policy implications. Course background in psychology, sociology, or community health is recommended. Suggested prerequisites: PHP 0320 and CLPS 0010 (PSYC 0010). Restricted to juniors, seniors, and graduate students.

Spr PHP1680N S01 25391 M 2:30-5:00(13) (P. Monti)

1700 Current Topics in Environmental Health
This course is designed to introduce students to the field of environmental health, and demonstrate how environmental health is integrated into various aspects of our lives, both directly and indirectly. Topics to be covered include: toxic metals, vector-borne disease, food safety, water quality, radiation, pesticides, air quality, hazardous waste, risk assessment, and the role of the community in environmental health. Several topics will be presented by guest speakers so that students can learn from the expertise of professionals in the field. Instructor permission required.

Fall PHP1700 S01 13337 M 1:00-3:30(06) (K. Kelsey)

1740 Principles of Health Behavior and Health Promotion Interventions
Examines health behavior decision-making and elements for design of health promotion interventions. Covers theories of health behavior (focusing on primary and secondary prevention), principles of intervention design, and reading of research literature. Emphasizes psychological, social, and proximate environmental influences on individuals' health-related behaviors. Restricted to juniors, seniors, and graduate students. Prerequisite: PHP 0320 or equivalent. Enrollment limited to 25.

Fall PHP1740 S01 12678 TTh 2:30-3:50(11) (W. Rakowski)

1910 Community Health Senior Seminar: Health and Human Rights
Violations of human rights are particularly relevant to population health. Discrimination and stigmatization, health policies, civil and international conflicts, and practices in biomedical and behavioral research contribute to population patterns of disease, injury, and disability. Principles of human rights and their application to current crises are the basis for seminar discussion. Prerequisite: PHP 0310, 0320, and 1320. Open to Senior Community Health concentrators only.

Fall PHP1910 S01 12684 M 3:00-5:20(13) (M. Lurie)

1970 Independent Study
A special project may be arranged in consultation with an individual faculty sponsor. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor's permission required.

Fall Spr

(Primarily for Graduates)

2030 Clinical Trials Methodology
We will examine the modern clinical trial as a methodology for evaluating interventions related to treatment, rehabilitation, prevention and diagnosis. Topics include the history and rationale for clinical trials.
ethical issues, study design, protocol development, sample size considerations, quality assurance, statistical analysis, systematic reviews and meta-analysis, and reporting of results. Extensively illustrated with examples from various fields of health care research. Recommended prerequisites: introductory epidemiology and statistics. Prerequisites: PHP 2120, 2500 or 2510.

Fall PHP2030 S01 14709 ‘To Be Arranged’

2040 Applied Research Methods
Emphasizes the theory of sampling and survey methods and their application to public health research. Topics include: survey design and planning; principles of sampling and survey terminology; questionnaire construction; protection of human subjects; data collection (including interviewing and data coding procedures); and application, presentation, and evaluation of results. Suggested prerequisites: PHP 2120, and PHP 2500 or 2510.

Spr PHP2040 S01 21748 M 5:30-8:30 PM(18) (M. Clark)

2060 Qualitative Methods in Health Research
Introduces qualitative approaches to data collection and analysis in health research. Methods covered include: participant observation, key-informant interviews, focus groups, innovative data collection strategies, and non-obtrusive measures. Students will use applied projects to develop skills in qualitative data collection and management, interviewing, transcript analysis using computerized software, triangulation between qualitative and quantitative data, and report preparation for qualitative studies. Enrollment limited to 20.

Spr PHP2060 S01 21749 W 9:00-11:30(02) (T. Weten)

2070 Public Health/Community Service Internship
The course is an introduction to the history, organization, resources, concepts and issues of public health and health care. Students will be matched according to their interests in a related practical experience in a health-related organization, with the expectation that they complete a project or produce a product of public health utility. This gives students an opportunity to critically apply knowledge and skills learned in didactic sessions. Instructor's permission required.

Spr PHP2070 S01 25392 ‘To Be Arranged’ (P. Vivier)

2075 MPH Analytic Internship
The primary objective of this course is to gain hands-on experience in using data to address public health questions. Concepts from previous courses will be re-enforced as students work through the steps of addressing a public health question. Both data analysis and data interpretation will be emphasized in the context of a public health question. STATA 8.0 will be used to analyze data.

Spr PHP2075 S01 21750 TTh 10:30-11:50(09) (A. Gjelsvik)

2090 Scientific Writing in Public Health
Addresses methodologic and operational issues associated with developing research studies in epidemiology (including clinical trials). Students prepare protocols for research studies in human populations with attention to ethical guidelines and regulations. Students critique completed proposals, are exposed to existing systems for submission and review of funding applications, as well as controversial issues such as conflict of interest. Enrollment limited to 10. For Summer enrollment, students must be accepted to the Clinical and Translational Research Institute. Instructor's permission required.

Sum PHP2090 S01 60342 ‘To Be Arranged’ (M. Stein)
Spr PHP2090 S01 25393 F 1:00-3:20(06) (E. Loucks)

2120 Introduction to Methods in Epidemiologic Research
Epidemiology quantifies patterns and determinants of human population health, with a goal of reducing the burden of disease, injury, and disability. An intensive first course in epidemiologic methods, students learn core principles of study design and data analysis through critiques of published epidemiologic studies as well as hands on practice through weekly exercises and assignments.

Fall PHP2120 S01 12698 ‘To Be Arranged’ (E. Triche)

2180 Critical Epidemiology
This advanced graduate seminar is a critical history of epidemiologic concepts and methods, emphasizing 19th century to the present. Students build on teachings from PHP 2120 to understand and apply theoretical challenges of disease definitions and causal thinking. Weekly reading and writing assignments strengthen skills in awareness of belief systems and construction of facts within specific ideologic frameworks. Prerequisite: PHP 2120.

Fall PHP2180 S01 15580 ‘To Be Arranged’ (D. Michaud)

2200 Intermediate Methods in Epidemiologic Research
Reinforces the concepts and methods taught in PHP 2120, with in-depth instruction in study design, confounding, model construction, measurement error, estimation, effect modification, and causal inference. Prerequisites or co-reqs: PHP 2120, PHP 2510, PHP 2511.

Spr PHP2200 S01 21751 TTh 10:30-11:50(09) (S. Buka)

2210 Epidemiology of Chronic Disease
A survey of central issues in selected health conditions that have major disabling consequences. The focus is on epidemiologic and biologic features of these conditions and their social and biologic determinants such as smoking, poverty, occupational exposures, nutrition, and heredity. Methodological areas include classification, screening, lead time bias, time trends, etc. Seminar format. Students present reviews of selected topics.

Spr PHP2210 S01 25394 ‘To Be Arranged’ (D. Michaud)

2220 Special Topics Series: Epidemiology Substantive Courses
The epidemiology of specific diseases or conditions-for example, reproductive epidemiology, infectious disease and cancer-either individually or in combination. Prerequisites for all sections: PHP 2120.

2220C Perinatal Epidemiology
Provides an overview of topics related to reproduction, maternal and fetal outcomes of pregnancy, and longer term consequences of adverse pregnancy outcomes. Methodological issues unique to reproductive and perinatal epidemiology are discussed, as well as general epidemiologic methods as applied to topics in reproductive and perinatal epidemiology. Students are expected to actively participate in class discussions, lead discussions related to selected topics by providing an overview of the biology, descriptive epidemiology, and known risk factors of the topic, along with a detailed critique of recently published articles on the topic. Prerequisite: PHP 2120.

Spr PHP2220C S01 25395 M 9:30-11:50(03) (E. Triche)

2300 Research Methods in Behavioral Science
This course provides students with fundamental principles of behavioral and social research methodology for understanding the determinants of public health problems, and for executing and testing public health interventions. We will focus on experimental methods, observational studies, and qualitative approaches. We will develop skills in understanding and interpreting data--both quantitative and qualitative. Throughout the course we will emphasize ethical, cultural, and professional issues for designing public health interventions. Prior coursework in research methodology and quantitative methods is recommended but not required. Open to graduate students and advanced undergraduates. Enrollment limited to 15.

Fall PHP2300 S01 14848 W 1:00-3:30(06) (D. Operario)

2310 Physical Activity and Public Health
This course examines physical activity and health with an emphasis on the development of behavioral interventions to increase physical activity. Students gain knowledge of the impact of physical activity on
Students will conduct weekly readings, engage actively in seminar discussions, and present on the linkages between science and HIV prevention practice/policy. A particular focus of this course is on the state of empirical research and the need for intervention mapping, implementing interventions, ethical considerations, evaluating and disseminating results. Students will critique intervention studies and gain experience in developing a hypothetical behavior change intervention. Graduates will have opportunities to use this experience in future careers.

Enrollment limited to 20.

Spr PHP2360 S01 21796 W 3:00-5:20(14) (K. Gans)

2371 Psychosocial and Pharmacologic Treatment of Substance Use Disorders

Intended to provide an overview of the history of the treatment of substance use disorders; assessment methods designed to determine progress in substance use treatment; and the current most common types of psychosocial and pharmacologic treatments for substance use. Enrollment limited to 20 graduate students. Instructor permission required.

Fall PHP2371 S01 15962 F 1:00-3:20(06) (P. Monti)

2380 Health Communication

This course will explore Health Communication, with a focus on behavioral and social science interventions delivered through health communication programs. The course is structured so that basic building blocks (i.e., definitions of health communication, public health context for health communications interventions, theories of health communication and health behavior change) are presented sequentially early in the semester. Students will synthesize knowledge and demonstrate their understanding of the role of health communication through a final research project. The class is open to all graduate students in Community Health. Seniors with concentration in Community Health may enroll with instructor's permission.

Enrollment limited to 20.

Fall PHP2380 S01 15918 Th 1:00-3:20(10) (D. Williams)

2400 The U.S. Health Care System: Case Studies in Financing, Delivery, Regulation and Public Health

Reviews the development of the health care delivery, financing and regulatory control systems in the U.S. and reviews the literature on the relationship between health system structure and the services used and health outcomes that populations experience. A case-study approach is used to understand the inter-relationship between financing, delivery and regulatory components of the health system and their implication for public health by drawing on epidemiological, economic, political and sociological principals. Prerequisites: Graduate standing or PHP 0310 or PHP 0070 (not available to freshmen or sophomores). Instructor permission required.

Fall PHP2400 S01 12724 MW 10:30-11:50(04) (C. Koller)

2430 Analysis of Population Based Datasets

Epidemiologic, health services, and social research often conducts "secondary analysis" of existing population-based datasets. Benefits include their representative sampling frames allowing generalizability to larger populations, timeliness, and lower cost. In addition, computer technology makes it possible to link some databases providing richer sources of information. There are several technical and methodological concerns when conducting "secondary analysis." Students will download, link, and analyze several data sets to understand the advantages of these data for health policy analysis as well as understand and apply different analytic methods. Familiarity with statistical analysis software is required.

Spr PHP2430 S01 23925 F 10:00-12:30(03)

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
incentives, organizational change, and health care disparities. Students will engage in a team-based quality improvement project. Limited to Grad students only.

Fall PHP2450 S01 14005 F 9:00-11:50(02) (A. Trivedi)

2460 Research Methods in Clinical, Translational and Health Services Research
This course will take an applied approach to understanding research methods used in health research. Students will explore concepts, gain knowledge and develop skills in the following areas: 1. Developing and refining research questions; 2. Designing research projects and appropriately implementing research methodologies; 3. Understanding the strengths and weaknesses of different study designs in addressing specific research questions, including an understanding of threats to validity; 4. Identifying Data Sources, including primary and secondary sources; 5. Understanding research ethics, including IRB processes and HIPPA regulations. Students must be accepted to the Clinical and Translational Research Summer Institute to enroll.

Sum PHP2460 S01 60118 'To Be Arranged' (A. Gjelsvik)

2470 Topics in Clinical, Translational and Health Services Research
Through a combination of mini-courses and seminars, students will explore concepts, gain knowledge and develop skills in a variety of public health areas. To receive a half credit for this course, students will be required to successfully complete 70 units. Units must be pre-determined by the course instructor and the unit instructor. Units are generally based on the number of in-person contact hours and the number of outside of class/homework hours required for a mini-course or seminar. Students must receive special permission from the instructor or be accepted to the Clinical and Translational Research Summer Institute to enroll.

Sum PHP2470 S01 60119 'To Be Arranged' (P. Vivier)
Fall PHP2470 S01 15581 'To Be Arranged' (P. Vivier)
Spr PHP2470 S01 25397 'To Be Arranged' (P. Vivier)

2500 Introduction to Biostatistics
The first in a two-course series designed for students who seek to develop skills in biostatistical reasoning and data analysis. Offers an introduction to basic concepts and methods of statistics as applied to diverse problems in the health sciences. Methods for exploring and presenting data; direct and indirect standardization; probability; hypothesis testing; interval estimation; inference for means and proportions; simple linear regression, etc. Statistical computing is fully integrated into the course. Students MUST register for a lab, and a lecture section.

Fall PHP2500 S01 12727 'To Be Arranged'

2510 Principles of Biostatistics and Data Analysis
Intensive first course in biostatistical methodology, focusing on problems arising in public health, life sciences, and biomedical disciplines. Summarizing and representing data; basic probability; fundamentals of inference; hypothesis testing; likelihood methods. Inference for means and proportions; linear regression and analysis of variance; basics of experimental design; nonparametrics; logistic regression. Open to advanced undergraduates with permission. Students MUST register for a lab, and a lecture section.

Fall PHP2510 S01 12734 'To Be Arranged'

2511 Applied Regression Analysis
Applied multivariate statistics, presenting a unified treatment of modern regression models for discrete and continuous data. Topics include multiple linear and nonlinear regression for continuous response data, analysis of variance and covariance, logistic regression, Poisson regression, and Cox regression. Primarily for graduate students and advanced undergraduates. Students MUST register for a lab, and a lecture section.

2520 Statistical Inference I
First of two courses that provide a comprehensive introduction to the theory of modern statistical inference. PHP 2520 presents a survey of fundamental ideas and methods, including sufficiency, likelihood based inference, hypothesis testing, asymptotic theory, and Bayesian inference. Measure theory not required.

Fall PHP2520 S01 12736 MW 8:30-9:50(02)

2540 Advanced Methods for Multivariate Analysis
Survey of modern statistical methods for analysis of multivariate and high-dimensional data. Topics include inference for multivariate normally distributed data, methods for data reduction, classification and clustering, multiple comparisons for high-dimensional data, analysis of multidimensional contingency tables, and functional data analysis. Applications to diverse areas of scientific research, such as genomics, biomarker evaluation, and neuroscience will be featured. Prerequisites: APMA 1650-1660 or PHP 2520, MATH 0520.

Spr PHP2540 S01 23501 MW 10:00-11:20(03)

2580 Statistical Inference II
This sequence of two courses provides a comprehensive introduction to the theory of modern inference. PHP 2580 covers such topics as non-parametric statistics, quasi-likelihood, resampling techniques, statistical learning, and methods for high-dimensional Bioinformatics data.

Spr PHP2580 S01 23926 MW 8:30-9:50(02)

2601 Linear and Generalized Linear Models
Generalized linear models provide a unifying framework for regression. Important examples include linear regression, log-linear models, and logistic regression. GLMs for continuous, binary, ordinal, nominal, and count data. Topics include model parameterization, parametric and semiparametric estimation, and model diagnostics. Methods for incomplete data are introduced. Computing with modern software is emphasized.

Fall PHP2601 S01 13693 TTh 1:00-2:20(10)

2602 Analysis of Lifetime Data
Comprehensive overview of methods for inference from censored event time data, with emphasis on nonparametric and semiparametric approaches. Topics include nonparametric hazard estimation, semiparametric proportional hazards models, frailty models, multiple event processes, with application to biomedical and public health data. Computational approaches using statistical software are emphasized. Recommended: Intermediate-level courses in biostatistics: PHP 2510, 2511 or equivalent.

Spr PHP2602 S01 23621 TTh 2:30-3:50(11)

2610 Causal Inference and Missing Data
Systematic overview of modern statistical methods for handling incomplete data and for drawing causal inferences from "broken experiments" and observational studies. Topics include modeling approaches, propensity score adjustment, instrumental variables, inverse weighting methods and sensitivity analysis. Case studies used throughout to illustrate ideas and concepts.

Spr PHP2610 S01 25398 'To Be Arranged'

2950 Doctoral Seminar in Public Health
The purpose of this seminar is to facilitate discussions of current scientific literature in epidemiology, biostatistics, health services, and public health in general. The main goal is to expose students to current methodological issues and controversies in epidemiology, biostatistics,
Fall PHP2950 S01 14593 M 12:00-1:30(12)
Spr PHP2950 S01 24930 M 12:00-1:30(05)

2980 Graduate Independent Study and Thesis Research
Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor’s permission required.
Fall; Spr

2985 MPH Independent Study for Thesis Preparation and Research
This optional half credit course may be taken up to two times during preparation for the MPH degree. It provides MPH students with self-directed thesis research and preparation time under the guidance of a thesis advisor. Prior to taking this course the student and advisor must reach agreement as to what constitutes satisfactory completion of the course (e.g., completion of a satisfactory literature review, attainment of specific thesis benchmarks, or completion of the thesis). Please check Banner for the correct section number and CRN to use when registering for this course. Instructor’s permission required.
Fall; Spr

2990 Thesis Preparation
Fall PHP2990 S01 13102 ‘To Be Arranged’
Spr PHP2990 S01 21795 ‘To Be Arranged’

BioMed-Neuroscience

(Primarily for Undergraduates)

0010 The Brain: An Introduction to Neuroscience
Introduction to the mammalian nervous system with emphasis on the structure and function of the human brain. Topics include the function of nerve cells, sensory systems, control of movement and speech, learning and memory, emotion, and diseases of the brain. Instructors: John Stein and Michael Paradiso. No prerequisites, but knowledge of biology and chemistry at the high school level is assumed. LILE

Sum NEUR0010 S01 60307 MTWTh 1:00-3:00 (R. Patrick)
Fall NEUR0010 S01 12038 TTh 1:00-2:20(10) (J. Stein)

0650 Biology of Hearing
Examines the sensory and perceptual system for hearing: the external, middle, and inner ears; the active processes of the cochlea; sound transduction and neural coding; neural information processing by the auditory system; and the nature of auditory perception and its biological substrate. Prerequisite: an introductory course in Neuroscience, Cognitive Science, Physics, Engineering or Psychology.

Spr NEUR0650 S01 21588 MW 1:00-1:50(06) (J. Simmons)

(For Undergraduates and Graduates)

1020 Principles of Neurobiology
A lecture course covering fundamental concepts of cellular and molecular neurobiology. Topics include structure of ion channels, synaptic transmission, synaptic development, molecular mechanisms of synaptic plasticity, learning and memory and neurological diseases. Prerequisite: NEUR 0010. Strongly recommended: BIOL 0200 or equivalent.

Spr NEUR1020 S01 21589 TTh 9:00-10:20(08) (C. Aizenman-Stern)

1030 Neural Systems
This lecture course examines key principles that underlie the function of neural systems ranging in complexity from peripheral receptors to central mechanisms of behavioral control. Prerequisite: NEUR 0010 or the equivalent.

Fall NEUR1030 S01 12286 TTh 10:30-11:50(09) (D. Sheinberg)

1600 Experimental Neurobiology
Intensive laboratory experience in neuroscience appropriate for students with basic background in Neurobiology. Learn and employ the classical neurophysiological techniques of extracellular recording, intracellular recording and receptive field mapping using a variety of animal species. Experiments will include recording of sensory signals in the cockroach leg; frog sciatic nerve and sciatic nerve/muscle preparation; intracellular recording of neurons in Aplysia; receptive field mapping in frog skin; and visual field mapping in the frog tectum. Labs are supplemented by informal lectures. Prerequisites: NEUR 0010, 1020, and PHYS 0030 or equivalent. Instructor permission required; enrollment limited to 18. Sign up sheet in Sidney Frank Hall, Room 315 beginning November 2, 2010.

Students registering for the Summer Session do not require the instructor’s permission in order to register.

Sum NEUR1600 S01 60308 MW 1:30-5:30 (J. Stein)
Spr NEUR1600 S01 21590 W 1:00-5:50(06) (J. Stein)

1650 Structure of the Nervous System
Combined lecture and laboratory course on the anatomy of the central nervous system. Lectures survey the circuitry of the major neural systems for sensation, movement, cognition, and emotion. Laboratory exercises (Mon. 10:30-12:30) include brain dissections, microscopy of neural tissue, and discussion of clinical cases. Prerequisites: NEUR 0010, 1020, and 1030. Sign-up sheet in Sidney Frank Hall, Room 315 beginning April 20, 2010. Instructor permission required.

Fall NEUR1650 S01 13549 TTh 2:30-3:50(11) (D. Berson)

1670 Neuropharmacology and Synaptic Transmission
Synaptic transmission will be studied from a biochemical and pharmacological point of view. We will explore the factors regulating neurotransmitter synthesis, storage, release, receptor interaction, and termination of action. Proposed mechanisms of psychoactive drugs and biochemical theories of psychiatric disorders will be examined. Prerequisites: NEUR 0010 and BIOL 0200 or the equivalent. Students MUST register for a lab, and a lecture section.

Fall NEUR1670 S01 12741 TTh 9:00-10:20(08) (R. Patrick)

1680 Computational Neuroscience
A lecture and computing lab course providing an introduction to quantitative analysis of neural activity and encoding, as well as modeling of neurons and neural systems. Emphasizes Matlab-based computer simulation. Prerequisites: NEUR 0010, 1020 or 1030; APMA 0410 or 1650, or equivalent. Sign-up sheet in Sidney Frank Hall, Room 315 beginning April 20, 2010. Instructor permission required.

Spr NEUR1680 S01 21592 ‘To Be Arranged’ (L. Bienenstock)

1740 The Diseased Brain: Mechanisms of Neurological and Psychiatric Disorders
The goals of this course are to illustrate what basic science can teach us about neurological disorders and how these pathologies illuminate the functioning of the normal nervous system. Consideration will be given to monogenic diseases (e.g. Fragile X Syndrome, Duchenne Muscular Dystrophy and Tuberous Sclerosis) as well as genetically complex disorders, such as Autism, Schizophrenia and Alzheimer’s Disease. Emphasis will be on the cellular and molecular basis of these disorders and how insights at these levels might lead to the development of therapies. Prerequisites: NEUR 1020, NEUR 1040, and BIOL 0470 suggested.

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
**1930 Topics in Neuroscience**

Seminars on selected topics in neuroscience designed to examine recent research, with an emphasis on critical reading of original research reports. Topics vary from year to year. Preference given to senior neuroscience concentrators. Prerequisites: NEUR 1020, 1030. Enrollment Limited to 15.

**1930E Great Controversies in Neurobiology**

This upper-level course examines some of the great controversies in the history of neurobiology. Reading material is drawn primarily from the primary scientific literature, so students are expected to already be familiar with reading scientific papers. Each theme will focus on a particular controversy, examining experimental evidence supporting both sides of the issue. Prerequisites: NEUR 0010 and NEUR 1020. Sign-up sheet in Sidney Frank Hall, Room 315 beginning April 20, 2010. Instructor permission required. Enrollment limited to 15.

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**Fall NEUR1930E S01 15824 'To Be Arranged' (C. Alzenman-Stern)**

**1930F Brain Interfaces for Humans**

Seminar course will cover developing and existing neurotechnology to restore lost human neurological functions. It will cover stimulation technologies to restore hearing, vision and touch, recording technologies to return function for persons with paralysis. The course will also cover devices to modulate brain function (e.g. deep brain stimulators). We will discuss early brain technologies, the present state neural sensors and decoders and future technology developments (e.g. brain-machine hybrids, human augmentation), as well as ethical implications. A final paper will be required. Instructor permission required. Prerequisites: NEUR 0010, NEUR 1020, and NEUR 1030; 1 year of physics, calculus. Enrollment restricted to 20 Neuroscience Concentrators and Graduate Students. Sign-up sheet in Sidney Frank Hall, room 315 beginning April 20, 2010.

**Fall NEUR1930F S01 15825 'To Be Arranged' (J. Donoghue)**

**1940 Topics in Neuroscience**

Seminars on selected topics in neuroscience designed to examine recent research, with an emphasis on critical reading of original research reports. Topics vary from year to year. Preference given to senior neuroscience concentrators. Prerequisites: NEUR 1020, 1030. Enrollment Limited to 15.

**1940B Neuroethology**

Neuroethology is concerned with the neural systems serving such naturally occurring behaviors as orientation in the environment, finding food, predator detection, social communication, circadian and seasonal rhythms, and locomotion and tracking. This seminar will examine selected examples of the neuroethological approach to analyses of brain function, which sometime leads to conclusions different from those of laboratory-based experiments on traditional animal models. Sign-up sheet in Sidney Frank Hall, room 315 beginning November 2, 2010. Enrollment limited to 20.

**Spr NEUR1940B S01 21594 'To Be Arranged' (J. Simmons)**

**1940E Molecular Neurobiology: Genes, Circuits and Behavior**

In this seminar course, we will discuss primary research articles, both recent and classical, covering topics ranging from the generation of neuronal diversity to the control of behavior by specific neural circuits. Instructor permission required; enrollment limited to 15. Sign-up sheet in Sidney Frank Hall, room 315 beginning November 2, 2010.

**Spr NEUR1940E S01 25658 'To Be Arranged' (G. Barnea)**

**1970 Independent Study**

Laboratory-oriented research in neuroscience, supervised by staff members. A student, under the guidance of a neuroscience faculty member, proposes a topic for research, develops the procedures for its investigation, and writes a report of the results of his or her study. Independent study may replace only one required course in the neuroscience concentration. Prerequisites include NEUR 0010, 1020 and 1030. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Permission must be obtained from the Neuroscience Department. Instructor’s permission required.

Fall: Spr

(Primarily for Graduates)

**2010 Graduate Proseminar in Neuroscience**

A study of selected topics in experimental and theoretical neuroscience. Presented by neuroscience faculty, students, and outside speakers. A required course for all students in the neuroscience graduate program.

Fall NEUR2010 S01 12296 'To Be Arranged' (J. Sanes)

**2020 Graduate Proseminar in Neuroscience**

See Graduate Pro-Seminar In Neuroscience (NEUR 2010) for course description.

Spr NEUR2020 S01 21595 'To Be Arranged' (J. Sanes)

**2030 Advanced Molecular and Cellular Neurobiology I**

Focuses on molecular and cellular approaches used to study the CNS at the level of single molecules, individual cells and single synapses by concentrating on fundamental mechanisms of CNS information transfer, integration, and storage. Topics include biophysics of single channels, neural transmission and synaptic function. Enrollment limited to graduate students.

Spr NEUR2030 S01 24892 'To Be Arranged' (A. Hart)

**2050 Advanced Systems Neuroscience**

Focuses on systems approaches to study nervous system function. Lectures and discussions focus on neurophysiology, neuroimaging and lesion analysis in mammals, including humans. Computational approaches will become integrated into the material. Topics include the major sensory, regulatory, and motor systems. Enrollment limited to graduate students.

Spr NEUR2050 S01 25659 'To Be Arranged'

**2060 Advanced Cognitive Neuroscience**

Focuses on cognitive approaches to study nervous system function. Lectures and discussions focus on neurophysiology, neuroimaging and lesion analysis in mammals, including humans. Computational approaches will become integrated into the material. Topics include the major cognitive systems, including perception, decisions, learning and memory, emotion and reward, language, and higher cortical function. Enrollment limited to graduate students.

Fall NEUR2060 S01 15826 'To Be Arranged'

**2160 Neurochemistry and Behavior**

Examines behavior from a neurochemical perspective via readings and discussions based on original research articles. Intended primarily for graduate students with a strong background in neurochemistry and neuropharmacology and advanced undergraduates with an appropriate background. Offered alternate years. Sign-up sheet in Sidney Frank Hall, Room 315 beginning November 2, 2010. Instructor’s permission required.

Spr NEUR2160 S01 25660 'To Be Arranged' (R. Patrick)

**2930 Advanced Topics in Neuroscience**

**2930C Historical Foundations of the Neurosciences**

Two year sequence starting Fall 2010; students register for one year at a time. The first year (2010-2011) will examine the history of basic neuroscientific concepts from the late Greeks (Galen) to the later 19th

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
Fall NEUR2930C S01 12364 'To Be Arranged' (J. Sanes)
2930E Bench to Bedside: Unraveling Diseases of the Nervous System
Enrollment restricted to graduate students.

Fall NEUR2930E S01 13691 'To Be Arranged' (D. Lipscombe)

2940 Advanced Topics in Neuroscience

2940G Historical Foundations of the Neurosciences II
Continuation of a two year sequence focusing on the conceptual foundations in the history of neuroscience, from the late nineteenth century to the present. Primarily for graduate students in neuroscience, cognitive science, and psychology, but senior undergraduates may be admitted with written permission from the instructor. Seminar meets monthly, and must be taken for the full year to receive one semester credit. Instructor’s permission required.

Spr NEUR2940G S01 23489 'To Be Arranged' (S. Greenblatt)

Ethics and Skills Workshop
The ethics and skills workshops will be lead by faculty trainers in the Neuroscience Graduate Program. We will cover the following or similar topics over a two year period: Plagiarism, scientific accuracy, data ownership, expectations of advisory committees and mentors, authorship disagreements, and conflicts among lab members. Enrollment restricted to graduate students.

Spr NEUR2940H S01 23376 'To Be Arranged' (J. Sanes)

2970 Preliminary Examination Preparation
For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing for a preliminary examination.

Fall NEUR2970 S01 12364 'To Be Arranged' (J. Sanes)
Spr NEUR2970 S01 21678 'To Be Arranged' (J. Sanes)

2980 Graduate Independent Study
Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor’s permission required.

Fall; Spr

2990 Thesis Preparation
For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing a thesis.

Fall NEUR2990 S01 12779 'To Be Arranged' (J. Sanes)
Spr NEUR2990 S01 21767 'To Be Arranged' (J. Sanes)

Catalan see Hispanic Studies

Center for Language Studies

Arabic

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
and video assignments outside of class. Prerequisite: ARAB 0300. This is the second half of a year-long course. Students must have taken ARAB 0300 to receive credit for this course. If ARAB 0300 was taken for credit, then this course must be taken for credit; if taken as an audit, this course must also be taken as an audit. Exceptions to this policy must be approved by both the academic department and the Committee on Academic Standing. If course is full, please sign the wait list in Room 205, 195 Angell Street. Enrollment limited to 18.

Committee on Academic Standing. If course is full, please sign the wait list in Room 205, 195 Angell Street. Enrollment limited to 18.

0500 Third-Year Arabic
Offers comprehensive training in listening, speaking, reading, and writing with grammar review as needed. Broadens students' perspective of Arabic writing with selections from the classical and modern traditions of Arabic writing and various art forms. Includes basic conversation in colloquial Arabic. Five contact hours weekly. Prerequisite: ARAB 0400. Enrollment limited to 18.

Fall ARAB0500 S01 10524 MWF 12:00-12:50 & TTh 12:00-12:50(12) (M. El-Sharkawi)
Fall ARAB0500 S02 15073 MWF 12:00-12:50 & TTh 12:00-12:50(12) (Z. Bentahar)

0600 Third-Year Arabic
Offers comprehensive training in listening, speaking, reading, and writing with grammar review as needed. Broadens students' perspective of Arabic culture with selections from the classical and modern traditions of Arabic writing and various art forms. Includes basic conversation in colloquial Arabic. Five contact hours weekly. Prerequisite: ARAB 0500. Enrollment limited to 18.

Spr ARAB0600 S01 21215 MWF 12:00-12:50 & TTh 12:00-12:50(05) (M. El-Sharkawi)
Spr ARAB0600 S02 24897 MWF 12:00-12:50 & TTh 12:00-12:50(05) (Z. Bentahar)

0700 Fourth-Year Arabic
Builds advanced Arabic competence, using communicative approaches to the learning of content, function, and accuracy. Guided reading, writing and research. Three contact hours weekly. Prerequisite: ARAB 0600.

Fall ARAB0700 S01 10525 MW 12:00-1:20(12) (M. Christoff)

0800 Fourth-Year Arabic
Builds advanced Arabic competence, using communicative approaches to the learning of content, function, and accuracy. Guided reading, writing and research. Three contact hours weekly. Prerequisite: ARAB 0700.

Spr ARAB0800 S01 21216 MW 12:00-1:20(05) (M. Christoff)

English for Internationals

(Primarily for Graduates)

2100 Academic Discourse for Internationals
This course develops the English skills of first-year international graduate students who are preparing to be teaching assistants. Students improve their listening comprehension and fluency in conversational interactions typical of academic settings. Areas of spoken English that are addressed include pronunciation, stress patterns, intonation, vocabulary, and structure. Instructor permission required.

Fall EINT2100 S01 10526 MWF 11:00-11:50 & TTh 11:00-11:50(04) (B. Gourlay)

2200 Academic Interactions
This course develops the English language skills of first-year international graduate students who are preparing to be teaching assistants. Students improve their fluency and expression of complex ideas in a variety of linguistic situations typical of classroom interactions. Students also increase their control of vocabulary, pronunciation and listening comprehension when communicating with American undergraduates. Instructor permission required.

Fall EINT2200 S01 10527 MWF 12:00-12:50 & TTh 12:00-12:50(12) (B. Gourlay)
Spr EINT2200 S01 21217 MWF 12:00-12:50 & TTh 12:00-12:50(05) (B. Gourlay)

2300 Negotiating an American Classroom
In this course, international graduate students increase their abilities to communicate accurately and fluently in English with American undergraduates. International students develop their ability to interact, in culturally appropriate ways, in a variety of teaching situations common to an institution of higher education, where they are responsible for explaining complex information and ideas in English. Instructor permission required.

Fall EINT2300 S01 10528 MTWTh 9:00-9:50(02) (B. Gourlay)
Spr EINT2300 S01 21218 MTWTh 9:00-9:50(02) (B. Gourlay)

2400 Speaking Professionally for Internationals
This course develops the English communication skills of international graduate students with an emphasis on intelligibility of speech and clarity of expression in a variety of teaching and professional situations (e.g. presenting material, responding to questions, directing discussions). Students develop increased facility of English in extended discourse when they are the authority in a teaching or other professional context. Instructor permission required.

Fall EINT2400 S01 10529 MW 9:00-9:50(08) (B. Gourlay)
Fall EINT2400 S02 10530 TTh 9:00-9:50(08) (B. Gourlay)
Spr EINT2400 S01 21219 MW 9:00-9:50(08) (B. Gourlay)
Spr EINT2400 S02 21220 TTh 9:00-9:50(08) (B. Gourlay)

2500 Advanced Articulation Tutorial
This course is an advanced pronunciation tutorial for international graduate students who have achieved a near-native speaker level of fluency in English, but who require greater precision of English articulations, pronunciation, fluency and/or expression. Instructor permission required.

Fall EINT2500 S01 10531 MTWTh 12:00-12:50(12) (B. Gourlay)
Spr EINT2500 S01 21221 MTWTh 12:00-12:50(05) (B. Gourlay)

Hindi-Urdu

(Primarily for Undergraduates)

0100 Beginning Hindi or Urdu
Introduces conversation, reading, and writing of modern standard Hindi and the Devanagari script. Those who already know Devanagari but have rusty conversation skills may join the class second semester; obtain instructor's permission during the first semester. Those who prefer to learn Urdu and the Persian script should contact the instructor.

Fall HNDI0100 S01 10532 MWF 12:00-12:50 & TTh 12:00-12:50(12) (A. Koul)

0200 Beginning Hindi or Urdu

Fall HNDI0200 S01 10534 MWF 12:00-12:50 & TTh 12:00-12:50(12) (A. Koul)
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Introduces conversation, reading, and writing of modern standard Hindi and the Devanagari script. Those who already know Devanagari but have rusty conversation skills may join the class second semester; obtain instructor's permission during the first semester. Those who prefer to learn Urdu and the Persian script should contact the instructor. Prerequisite: HNDI 0100.

Fall HNDI0200 S01 21222 MWF 12:00-12:50 & TTh 12:00-12:50(05) (A. Koul)

0300 Intermediate Hindi-Urdu
A continuation of HNDI 0100-0200, which is a prerequisite. Introduces the variation of the Arabic script used for Urdu. Prepares students to communicate in written and spoken language. Activities are conducted in Hindi/Urdu. Meets four hours weekly. Prerequisite: HNDI 0200.

Fall HNDI0300 S01 10533 MWF 1:00-1:50 & Th 4:00-4:50(06) (A. Koul)

0400 Intermediate Hindi-Urdu
A continuation of HNDI 0100-0200. Introduces the variation of the Persian script used for Urdu. Prepares students to communicate in written and spoken language. Activities are conducted in Hindi/Urdu. Meets four hours weekly. Prerequisite: HNDI 0300.

Spr HNDI0400 S01 21223 MWF 1:00-1:50 & Th 4:00-4:50(06) (A. Koul)

(For Undergraduates and Graduates)

1080 Advanced Hindi-Urdu
Each student follows an independent reading list determined in consultation with the instructor. The readings may include folk tales, journalistic prose, 20th-century literature, classical Urdu poetry of the 17th to 19th centuries, or subjects in nonfiction. The class meets together three hours weekly. Each student also spends one hour weekly with the instructor. Prerequisite: HNDI 0400.

Fall HNDI1080 S01 10534 'To Be Arranged' (A. Koul)
Spr HNDI1080 S01 21224 'To Be Arranged' (A. Koul)

Persian

(Primarily for Undergraduates)

0100 Basic Persian
Fast-paced course for beginners. Course stresses acquisition of Persian alphabet and basic grammatical patterns, beginning levels of speaking, listening, reading, and writing. Strong emphasis on the links between language and culture. Enrollment limited to 18.

Fall PRSN0100 S01 13684 MW 1:00-1:50 & Th 1:00-2:20(06) (I. Anvar)

0200 Basic Persian
Fast-paced course for beginners. Course stresses acquisition of Persian alphabet and basic grammatical patterns, beginning levels of speaking, listening, reading, and writing. Strong emphasis on the links between language and culture. This is the second half of a year-long course. Students must have taken PRSN 0100 to receive credit for this course. If PRSN 0100 was taken for credit then this course must be taken for credit; if taken as an audit, this course must also be taken as an audit. Exceptions to this policy must be approved by both the academic department and the Committee on Academic Standing. Enrollment limited to 18. Prerequisite: PRSN 0100.

Spr PRSN0200 S01 23622 MW 1:00-1:50 & Th 1:00-2:20(06) (I. Anvar)

0300 Intermediate Persian Language and Culture
Expands students' proficiency in modern Persian language and culture; develops listening, speaking, reading and writing skills at the intermediate level through various texts and multimedia. Prerequisite: PRSN 0200. Enrollment limited to 18.

Fall PRSN0300 S01 14062 MW 11:00-11:50 & TTh 11:00-11:50(04) (I. Anvar)

0400 Intermediate Persian Language and Culture
Expands students' proficiency in modern Persian language and culture; develops listening, speaking, reading and writing skills at the intermediate level through various texts and multimedia. Prerequisite: PRSN 0300. Enrollment limited to 18.

Spr PRSN0400 S01 23654 MW 11:00-11:50 & TTh 11:00-11:50(04) (I. Anvar)

0500 Advanced Persian Language and Culture I
For students who have completed PRSN 0400 or have acquired language skills above the intermediate level through contact with Persian in other ways. The main goal of this course is to improve speaking, listening, reading and writing skills and promote exposure to the culture. It will enable students to expand their knowledge of the language by studying samples of modern and classical Persian literature in order to advance toward mastery of contemporary literature. The course will motivate students to communicate both in written and spoken Persian by utilizing the adequate grammatical order and correct vocabulary. Prerequisite: PRSN 0400. Enrollment limited to 18.

Fall PRSN0500 S01 14589 TTh 2:30-3:50(11) (I. Anvar)

0600 Advanced Persian Language and Culture II
Designed for students who have completed PRSN 0500 or have acquired language skills above the advanced level through other means. The main goal of the course is to improve speaking, listening, reading and writing skills and promote exposure to the language and culture through in depth study of samples of Persian literature, history, journals, newspapers, radio and TV material to advance toward mastery of contemporary literature. Students will be motivated to communicate both in written and spoken Persian by utilizing adequate grammatical order and vocabulary. Activities will include poetry reading, informal gatherings and translation from and into Persian. Prerequisite: PRSN 0500. Enrollment limited to 18.

Spr PRSN0600 S01 24511 TTh 2:30-3:50(11) (I. Anvar)

American Sign Language

(Primarily for Undergraduates)

0100 American Sign Language I, II
Introduces basic ASL conversation. Features core vocabulary, common signing phrases, non-manual components (facial expression, body postures), signing space, fingerspelling, numbers, loan signs, cultural protocols, rules of ASL grammar and structure. Deaf cultural behavior is introduced in the classroom and through readings, videotapes, and Deaf community events. This is the first half of a year-long course whose first semester grade is normally a temporary one. Neither semester may be elected independently without special written permission. The final grade at the end of the course work in SIGN 0200 covers the entire year and is recorded as the final grade for both semesters. If section is full, please sign the wait list in Room 205, 195 Angell Street. Enrollment limited to 18.

Fall SIGN0100 S01 10535 MW 11:00-11:50 & TTh 10:30-11:50(04) (A. Belozovsky)

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
0200 American Sign Language I, II  
Introduces basic ASL conversation. Features core vocabulary, common signing phrases, non-manual components (facial expression, body postures), signing space, fingerspelling, numbers, loan signs, cultural protocols, rules of ASL grammar and structure. Deaf cultural behavior is introduced in the classroom and through readings, videotapes, and Deaf community events. This is the second half of a year-long course. Students must have taken SIGN 0100 to receive credit for this course. If SIGN 0100 was taken for credit then this course must be taken for credit; if taken as an audit, this course must also be taken as an audit. Exceptions to this policy must be approved by both the academic department and the Committee on Academic Standing. Enrollment limited to 18. Prerequisite: SIGN 0100.

Spr SIGN0200 S01 21225 MW 11:00-11:50 & TTh 10:30-11:50(04) (A. Belozovsky)

0300 American Sign Language III  
Explores sociolinguistic aspects of ASL within the Deaf cultural context. Focuses on classifiers, linguistic principles related to dialogues and storytelling techniques (e.g., role-shifting, narrative structure). Deaf culture is experienced by attending events and by voluntary service to the Deaf community. Prerequisite SIGN 0100 or placement interview. Enrollment limited to 18.

Fall SIGN0300 S01 11615 MW 12:00-12:50 & TTh 12:00-12:50(12) (A. Belozovsky)

0400 American Sign Language IV  
Intensive use of expressive and receptive skills in complex grammatical structures, advanced classifiers, dialogues, and storytelling techniques. Discussion of social factors that give rise to code-switching; regional and ethnic sign variations; social, political, and cultural evolution of U.S. Deaf community. Interaction with Deaf community in directed and non-directed activities. Prerequisite SIGN 0300 or placement interview. Enrollment limited to 18.

Spr SIGN0400 S01 21226 MW 12:00-12:50 & TTh 12:00-12:50(05) (A. Belozovsky)

0500 American Sign Language V  
Focuses on the use of ASL discourse in formal as well as informal settings. Students will explore and present the advanced ASL genres of public speaking, artistic expression, formal discussion, interview, and narrative projects. Development of ASL vocabulary in specialized area not covered in previous courses. Prerequisite: ASL IV (SIGN 0400) or equivalent. Enrollment limited to 18.

Fall SIGN0500 S01 13556 MW 2:00-3:20(07) (A. Belozovsky)

0900 Introduction to Deaf Studies  
Introduction to the Deaf Community and Deaf Culture. Discussion of similarities to, and differences from, mainstream hearing culture. Supplemental videotapes focus on aspects of the culture including Deaf education and history, autobiographical sketches, Deaf norms and values, and Deaf literature, art and folklore. Theoretical issues of culture and linguistics applied to Deaf culture, American Sign Language, and the variety of cultural perspectives of the Deaf community. Students also engage in a research project related to course content. Voice interpreter will be provided; all students are welcome; no previous knowledge of American Sign Language or Deaf Studies is needed. DVPS

Spr SIGN0900 S01 23499 TTh 2:30-3:50(11) (A. Belozovsky)

Center for Race and Ethnicity

Ethnic Studies  
(Primarily for Undergraduates)

0090 Freshman Seminar in Ethnic Studies  
A seminar designed for students interested in Ethnic Studies who are in their first year of study at Brown. No special background is required. All students are welcome. In order to preserve an intimate environment for dialogue, and to promote active participation of all students, enrollment will be limited to 20.

0090A The Border/La Frontera  
No description available. Enrollment limited to 20 first year students.

WRIT FYS

Fall ETHN0090A S01 15866 M 3:00-5:20(13) (E. Hu-Dehart)

0300 Ethnic Writing  
This course will explore the idea of "ethnic writing" in both theory and practice. Students will examine how writers draw upon race and ethnicity (not always their own) to produce creative works and will then put these ideas in practice in their own writing, including but not limited to fiction, poetry, memoir, and inter-genre work. Limited to 17. S/N/C.

Spr ETHN0300 S01 24624 T 4:00-6:20(16) (M. Lee)

0500 Introduction to American/Ethnic Studies  
Considers the U.S. as a society whose unifying identity is rooted in ethnic and racial diversity. Explores the historical and contemporary experiences of racial and ethnic groups in this country and analyzes different forms of representation of those experiences, as well as representations of the racial and ethnic stratification in the U.S. imagination.

Fall ETHN0500 S01 14249 TTh 10:30-11:50(09) (M. Garcia)

0710B Ethics of Black Power (AFRI 0710B)  
Interested students must register for AFRI 0710B S01 (CRN 24010).

(For Undergraduates and Graduates)

1870 Seminars in Ethnic Studies  
Enrollment Limited to 20.

1870E Queer Latina/o Literature and Theory  
Enrollment limited to 20. Not open to freshmen and sophomores.

Spr ETHN1870E S01 24171 TTh 1:00-2:20(10) (R. Rodriguez)

1890 Topics in Ethnic Studies  
1890A Seminar on Latino Politics in the United States  
Advanced seminar on the politics of Latino communities in the United States. Considers the history of Latino politics; participation, partisanship and office-holding; immigration and citizenship; social movements; public policy; gender and race; and pan-ethnic identity. Advanced undergraduate and graduate students. Includes optional community research project. Some familiarity with Latino studies, U.S.

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
politics, Latin American politics, or ethnic studies would be helpful. Enrollment limited to 20. DVPS

Spr  ETHN1890A S01  25699  W 3:00-5:20(14)  (A. Affigne)

1891 Empires in America to 1890 (HIST 1890)
Interested students must register for HIST 1890 S01 (CRN 13530).

1900 Senior Seminar in Ethnic Studies
Seminar for senior ethnic studies concentrators. Exposes students to critical issues in the study of race and ethnicity. Students are encouraged to develop a major essay or thesis on race and ethnicity. Enrollment limited to 20.

1900I To Be Determined
Enrollment limited to 20.

Spr  ETHN1900I S01  25701  M 3:00-5:20(13)  (E. Hu-Dehart)

1910 Independent Study
Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course.
Fall; Spr

1920 Senior Thesis
Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course.
Fall; Spr

Chemistry
(Primarily for Undergraduates)

0080 First Year Seminars
Enrollment limited to 20 first year students.

0080A First Year Seminar- Energy
An introductory study of the scientific foundation of energy, fundamental physical, chemical, and thermodynamic aspects of common (fossil, nuclear) as well as novel (fuel cells, solar, wind, etc.) energy sources. Concentrates on scientific principles, but includes discussion on resources and reserves, environmental impact, current usage, and future needs. For students of all disciplines who are interested in obtaining an understanding of scientific principles of energy. Enrollment limited to 20 first year students. FYS LILE

Fall  CHEM0080A S01  12915  M 3:00-5:20(13)  (P. Weber)

0080B Molecular Structures in Chemistry and Biology
This course will consist of a survey of historical developments and concepts of three dimensional structures of molecules. The course will conclude with a survey of the current state of the art of structure determination and 3D structure motifs for small molecules, nanomaterials and biological macromolecules. This freshman only seminar will be strictly limited to a maximum of 20 students. FYS

Fall  CHEM0080B S01  13735  MWF 9:00-9:50(02)  (P. Williard)

0100 Introductory Chemistry
Explores stoichiometry, atomic and molecular structure, chemical bonding, solutions, gases, chemical reactions, equilibria, thermodynamics, solution equilibrium, electrochemistry, chemical kinetics, and reaction mechanisms. Three hours of lecture and five hours of prelaboratory and laboratory per week. Required background: CHEM 0100 or AP Chemistry 4 or CHEM 0330 Placement Test 8 or IBC Chemistry.

Students MUST register for all four components of this course (the common meeting, lecture, lab and conference) during the SAME registration session. Banner will not allow a student to register for one component without registering for the other three at the same time. Further, if one component of the course is dropped, all four components will be dropped. This course is offered in both Fall and Spring semesters. Students who need to take only one chemistry course in order to satisfy a concentration requirement are encouraged to enroll in CHEM 0330 in the Spring semester.

Spr  CHEM0330 S01  60280  MWF 9:00-11:40  (K. Hess)
Fall  CHEM0330 M01  14343  "To Be Arranged"
Fall  CHEM0330 S01  12255  MWF 10:00-10:50(01)  (R. Stratt)
Fall  CHEM0330 S02  12466  MWF 11:00-11:50(01)  (D. Sweigart)
Fall  CHEM0330 S03  12467  TTh 10:30-11:50(01)  (C. Rose-Petruck)
Spr  CHEM0330 M01  24261  "To Be Arranged"
Spr  CHEM0330 S01  23520  TTh 10:30-11:50(01)  (C. Bazemore-Walker)

0350 Organic Chemistry
Sequel to CHEM 0330. Investigates the constitution and properties of the different classes of organic compounds, with considerable attention to reaction mechanisms. The laboratory work involves an introduction to microscale preparative and analytical techniques of organic chemistry and the preparation of representative organic compounds. Three hours of lecture and five hours of prelaboratory and laboratory. Prerequisite: CHEM 0330.

Students MUST register for a common meeting, a lecture section, a lab and a conference.

Sum  CHEM0350 S01  60282  MWF 9:00-11:40  (M. Zimmt)
Spr  CHEM0350 M01  24622  "To Be Arranged"
Spr  CHEM0350 S01  21571  MWF 9:00-9:50(01)  (M. Zimmt)
Spr  CHEM0350 S02  21729  TTh 9:00-10:20(01)  (A. Basu)

0360 Organic Chemistry
Sequel to CHEM 0350. Investigates the constitution and properties of organic compounds at a fundamental level with an introduction to physical organic, bioorganic, and synthetic organic chemistry. Laboratory work is concerned with the identification and characterization of organic compounds, including modern instrumental methods. Three hours of lecture and five hours of prelaboratory and laboratory. Prerequisite: CHEM 0350.

Students MUST register for a lecture section, a lab and a conference.

Fall  CHEM0360 M01  15871  "To Be Arranged"
Fall  CHEM0360 S01  12256  MWF 9:00-9:50(01)  (J. Sello)
Fall  CHEM0360 S02  12685  TTh 9:00-10:20(01)  (J. Suggs)

0400 Biophysical and Bioinorganic Chemistry
Examines aspects of physical and inorganic chemistry relevant to biochemistry: thermodynamics of hydrophobic and hydrophilic interactions, electrically charged membranes, coordination chemistry, active and passive transport, enzyme kinetics and mechanisms, metal-based drugs, and physical methods. Three hours of lecture and five hours of laboratory. Prerequisite: CHEM 0360 and MATH 0100 or 0170. Prerequisite or corequisite: PHYS 0040 or 0060.

Students MUST register for a lecture section and a lab.

Spr  CHEM0400 S01  21572  MWF 11:00-11:50(04)  (E. Kim)

0500 Inorganic Chemistry
Examines the chemistry of main group and transition metal elements with treatment of covalent bonding and molecular structure along with
the methods of studying inorganic compounds and reactions. Three hours of lecture and five hours of prelaboratory and laboratory attendance. Prerequisite: CHEM 0360. Students MUST register for a lecture section and a lab.

Spr CHEM0500 S01 21573 MWF 10:00-10:50(03) (W. Bernskaetter)

9070 Undergraduate Research
Prerequisite: permission of the staff. Permission should be requested before the end of the preceding semester. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor’s permission required.

Fall

9080 Undergraduate Research
See Undergraduate Research (CHEM 0970) for course description. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor’s permission required.

Spr

(For Undergraduates and Graduates)

1060 Advanced Inorganic Chemistry
Covers the physical and chemical properties of transition metal compounds as well as current research topics in inorganic chemistry. Laboratory is designed for the practice of modern inorganic chemistry through the synthesis and spectroscopic characterization of air-sensitive transition metal compounds. Prerequisite: CHEM 0500. Students MUST register for a lab, and a lecture section.
Fall CHEM1060 S01 12366 MWF 9:00-9:50(02) (E. Kim)

1140 Physical Chemistry: Quantum Chemistry
An introduction to the quantum theory of chemical systems. Elements of quantum mechanics; electronic structure of atoms and molecules; study of molecular structure and behavior by spectroscopy; chemical bonding are explored. Prerequisites: CHEM 0330, MATH 0180 or equivalent, PHYS 0040 or 0060 or equivalent. Recommended but not required: MATH 0520 or equivalent.
Fall CHEM1140 S01 12367 MWF 10:00-10:50(03) (L. Wang)

1150 Physical Chemistry: Thermodynamics and Statistical Mechanics
Examines the question: Where does chemical equilibrium come from? Focuses on macroscopic perspectives on chemical systems and the molecular origins of macroscopic behavior along with elements of statistical mechanics, the laws of thermodynamics, and the relationships between the two. Prerequisite: CHEM 1140 or written permission of the instructor.
Spr CHEM1150 S01 21636 MWF 10:00-10:50(03) (L. Wang)

1160 Physical Chemistry Laboratory
An introduction to modern instrumentation and experimental techniques as applied to physical chemistry. Experiments will emphasize application of the ideas of spectroscopy, kinetics, statistical mechanics, and thermodynamics to systems of chemical and biochemical interest. Required course for concentrators in chemistry. One to two afternoons of laboratory per week. Prerequisites: CHEM 1140 or permission of the instructor. Students MUST register for a lab, and a lecture section.
Spr CHEM1160 S01 21637 M 1:00-5:20(13) (G. Diebold)

1220 Computational Tools in Biochemistry and Chemical Biology
Introduction to computational tools used to analyze protein sequences and structures, DNA sequence analysis, RNA structure, biochemical pathways and the analysis of microarray data. Extensive use of programs such as AMBER, BLAST, PSIBLAST and a discussion of their limitations. Enrollment limited to 20. Prerequisite: BIOL 0280.
Spr CHEM1220 S01 23280 TTh 2:30-3:50(11) (J. Suggs)

1230 Chemical Biology
This course covers topics at the interface of chemistry and biology and, specifically, the use of chemical tools to probe biological systems. Using examples from the recent literature, we will discuss using the central methods of chemistry, namely the ability to design and synthesize compounds with a particular set of properties, to analyze biological problems. Specific topics include molecular recognition of DNA, artificial enzymes, small molecule sensors, and in vivo imaging of proteins, nucleic acids, and cell-surface carbohydrates. Prerequisites: CHEM 0350, CHEM 0360, and BIOL 0280 OR BIOL 1270

If enrollment exceeds the limit, permission to enroll will be allotted in the order: 1) first year graduate students, 2) senior concentrators in Chemistry or Biochemistry 3) junior concentrators 4) other students. Students who have registered or have permission to enroll must attend the first three classes or risk losing their places to someone on the waiting list. Enrollment limited to 25.

Fall CHEM1230 S01 12369 MW 8:30-9:50(02) (S. Delaney)

1240 Biochemistry
Examines the chemical, mechanistic, and structural basis for enzymatic catalysis. Uses examples from the recent literature to examine how the experimental and conceptual tools of chemical synthesis, isotopic labeling, stereochemistry, enzymology, kinetics, and protein structure can be brought to bear to unravel the chemical and physical principles underlying the enormous catalytic acceleration and exquisite structural specificity of enzyme-catalyzed reactions. Prerequisites: Strong background in organic chemistry (CHEM 0350-0360), A or B performance preferable) plus at least one semester of Biochemistry (BIOL 0280, BIOL 1270). Enrollment limited to: 25 students, written permission required.

If enrollments exceed the limit of 25 students, permission to enroll for students who meet the course prerequisites will be allotted in the order: a) first year Chemistry graduate students, b) undergraduate senior concentrators in Chemistry, Biochemistry or Chemical Biology, c) junior concentrators in Chemistry, Biochemistry or Chemical Biology, d) other students. Students who have permission to enroll must attend the first three classes or risk losing their places to someone on the Course waiting list.

Spr CHEM1240 S01 21638 TTh 9:00-10:20(08) (J. Sello)

1450 Advanced Organic Chemistry
Lectures cover topics of current interest in organic reaction mechanisms, synthesis, and structure determination. Laboratory emphasizes spectroscopic and separation techniques and modern synthetic methods. Prerequisite: CHEM 0360. Students MUST register for a lecture section and a lab.
Spr CHEM1450 S01 21639 MW 8:30-9:50(02) (C. Seto)

1560 Topics in Advanced Chemistry
Lecture units on various topics of interest in chemistry. Topics will be announced. One course credit may be earned by successful completion of two lecture units in one semester or over two semesters. Evaluation is based primarily on literature research papers in the areas of the units completed. May be repeated once for credit. Instructor’s permission required.

1560G Nuclear Magnetic Resonance
These special topics courses cover the basics of modern NMR spectroscopy. Topics to be included are as follows: modern Fourier transform methodology, modern NMR instrumentation, and a comprehensive discussion of one and two dimensional experiments that are routinely performed. Topics such as coherence transfer and pulsed field gradients will also be included. Experimental methods, covered in detail include COSY, TOCSY, HSQC, HMB, NOSEY,
ROSEY, EXSY and DOSY methodology. This course will not focus on experimental methodology. One course credit may be earned by successful completion of two lecture units in one semester or over two semesters. Evaluation is based primarily on literature research papers in the areas of the units completed. May be repeated once for credit.

Fall CHEM1560G S01 13590 MWF 11:00-11:50(04) (P. Williard)

1560H Chemical Glycobiology
This course examines the chemistry and biology of carbohydrates in living systems. Topics to be covered may include - principles of carbohydrate recognition, enzymes involved in synthesis and modification of carbohydrates, carbohydrates in bacterial/viral and other cellular interactions, glycomics, carbohydrate synthesis. Prerequisites: CHEM 0360 and BIOL 0280. Instructor permission required. Attendance at the first class meeting is required for enrollment.

Fall CHEM1560H S01 13591 M 3:00-5:20(13) (A. Basu)

1560K Computational Chemistry
Introduction to computational tools for studying the structure of molecules, chemical bonding and chemical reactions. A survey of computational approaches for calculating electron distribution such as molecular mechanics, semi-empirical and ab initio methods (Hartree-Fock, configuration interaction, perturbation theory and density functional theory) will be given. Methods for calculating dynamics of atoms in molecular vibration and chemical reactions will be covered. The course is intended for seniors and graduate students in all subdivisions of chemistry. The goal is to make students capable of using research level tools and carry out simple calculations related to their research interests.

Spr CHEM1560K S01 25793 TTh 2:30-3:50(11) (H. Jonsson)

1620 Chemical Physics
Topics in the chemical physics of molecules and solids, including structure, bonding, and radiative transitions. Prerequisites: CHEM 1140 or equivalent and written permission.

1620C Topics in Modern Physical Chemistry
Spr CHEM1620C S01 25794 TTh 1:00-2:20(10) (C. Rose-Petruck)

1700 Nanoscale Materials: Synthesis and Applications
An introduction to the chemical principles in the synthesis and self-assembly and physical properties in nano-optics, nano-electronics, nano-magnetism and nano-particles, nano-rods, nano-tubes, nano-wires and porous nano-structures. It will further illustrate how these nano-materials and their assemblies can be used in information storage, catalysis and biomedicine.

Fall CHEM1700 S01 12378 MWF 11:00-11:50(04) (S. Sun)

(Primarily for Graduates)

2010 Advanced Thermodynamics
Fundamental principles of macroscopic equilibrium thermodynamics. The three laws of thermodynamics, the thermodynamic potentials, temperature scales, heat engines and refrigerators, entropy, kinetic theory, and transport phenomena. Applications to solids, fluids, and magnetic systems; Gibb's relations, first and second order phase traditions, thermal radiation, gas expansions.

Fall CHEM2010 S01 13589 TTh 1:00-2:20(10) (G. Diebold)

2020 Statistical Mechanics
Introduction to modern equilibrium statistical mechanics, including the classical and quantum descriptions of ideal gases, the molecular basis of thermodynamics, the concepts of ensembles and fluctuations, and the implications of quantum mechanical indistinguishability.

Applications include chemical and phase equilibria, the transition-state theory of chemical reaction rates, and the theory of liquids.

Spr CHEM2020 S01 21640 MWF 11:00-11:50(04) (R. Stratt)

2210 Chemical Crystallography
Introduces the principles of crystallography (plane groups, point groups, space groups, Bravais lattice, crystal classes), crystallographic methods (single-crystal, powder XRD, macromolecular), strategies for data collection, methods for data reduction, and structure interpretation; reviews modern crystal structure databases (CSD, ICSD) and search engines; reviews the historical development of crystallography and the scope, potential and application of X-ray analysis.

Spr CHEM2210 S01 25795 'To Be Arranged' (M. Meuwly)

2310 Advanced Inorganic Chemistry
Comprehensive survey of topics in synthetic and mechanistic organometallic chemistry.

Fall CHEM2310 S01 12384 MWF 8:00-8:50(01) (W. Bernskoetter)

2320 Physical Inorganic Chemistry
The bonding and structures of inorganic compounds, including transition metal containing compounds and organometallics, and their spectroscopic properties are covered along with the group theoretical, quantum chemical, and physical methods employed. Prerequisites: CHEM 0500 and 1140 or equivalents or written permission. Recommended for seniors and first-year graduate students.

Spr CHEM2320 S01 23528 TTh 10:30-11:50(09) (D. Sweigart)

2410 Physical Organic Chemistry
Detailed examination of organic reaction mechanisms, reactive intermediates, and the methods employed for their characterization (e.g., kinetics, free energy relationships, isotope effects, molecular orbital theory, spectroscopy, and product distributions). Topics may include concerted, free radical, elimination, and photochemical reactions, and the chemistry of radicals, carbocations, carbanions, and carbenes. Prerequisites: CHEM 0500, CHEM 1140.

Fall CHEM2410 S01 12386 MWF 10:00-10:50(03) (M. Zimmt)

2420 Organic Reactions
Study of organic reactions and reaction mechanisms. Discussion and analysis of organic transformations. Topics can include arrow pushing strategies and synthetic methods.

Fall CHEM2420 S01 12397 TTh 9:00-10:20(08) (C. Seto)

2430 Synthetic Organic Chemistry
Methods, strategies, and mechanisms. Topics may include the chemistry of anions, cations, and radicals, concerted reactions, conformational analysis, and stereochemistry.

Spr CHEM2430 S01 21642 MWF 9:00-9:50(02) (P. Williard)

2770 Quantum Mechanics
Semester I: Time independent quantum mechanics and its application to atomic and molecular problems. Discussions of modern theories of electronic structure, chemical bonding, and molecular spectroscopy. Prerequisite: CHEM 1140 or equivalent.

Fall CHEM2770 S01 12413 TTh 10:30-11:50(09) (J. Doll)

2780 Quantum Mechanics
Semester II: Lectures consider the theory and application of time-dependent quantum mechanical methods in chemical physics. Both few and many-body methods are described and discussions include the correlation function formulation of chemical dynamics. Numerical

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
path integral methods for equilibrium and dynamical problems are introduced. Prerequisite: CHEM 2770.

Spr CHEM2780 S01 21643 TTh 9:00-10:20(08) (J. Doll)

2870 Departmental Colloquia

Fall CHEM2870 S01 12424 'To Be Arranged'

2880 Departmental Colloquium

Spr CHEM2880 S01 21644 'To Be Arranged'

2970 Preliminary Examination Preparation

For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing for a preliminary examination.

Fall CHEM2970 S01 12425 'To Be Arranged'
Spr CHEM2970 S01 21645 'To Be Arranged'

2980 Research

Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course.

Fall; Spr

2990 Thesis Preparation

For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing a thesis.

Fall CHEM2990 S01 12464 'To Be Arranged'
Spr CHEM2990 S01 21676 'To Be Arranged'

Fall XLIST Courses of Interest to Students wishing to Study Chemistry

The following course may be of interest to students desiring to know more about Chemistry. Please check the course listing for the time and location.

Engineering
ENGN 2730 Advanced Thermodynamics I

Spring XLIST Courses of Interest to Students wishing to Study Chemistry

The following course may be of interest to students desiring to know more about Chemistry. Please check the course listing for the time and location.

Biology
BIOL 1200 Protein Biophysics and Structure

Chinese see East Asian Studies

Classics

Classics
(Primarily for Undergraduates)

0010 The Greeks

For centuries Western civilizations have seen the Greeks as their intellectual and spiritual ancestors. The 'Greek miracle' is explored by reviewing its major achievements and discoveries: poetry (heroic epic, tragedy, political comedy), philosophy, historical research, political analysis and institutions, science. All texts read in English. LILE

Fall CLAS0010 S01 14330 MWF 11:00-11:50(04)

0020 The Romans
Statesmen exposed republican conspiracies; historians chronicled imperial intrigue; playwrights "Greeked-it-up" with toga parties; epic poets sang of Rome's rise (and fall); moralizers bemoaned gladiators' beauty habits; and a novelist recounted the adventures of a man turned into an ass. This course tracks the development of literary culture at Rome from its beginnings to the end of the Empire, with an emphasis on the major genres, authors, and works of Roman literature. Intended for all students desiring an introduction to Roman literary culture and its masterpieces. All texts read in English; no previous experience in Roman history or Latin required. LILE

Spr CLAS0020 S01 24243 TTh 1:00-2:20(10) (L. Mignone)

0210 Topics in Classical Literature and Civilization
First Year Seminars - open to 20 first-year students only. FYS

0210L Who Owns the Classical Past?

This course offers a forum for informed discussion of a variety of difficult questions about access to the classical past, and its modern-day ownership and presentation, seen primarily from the perspective of material culture (archaeology, art, museum displays, etc.). Enrollment limited to 20 first year students. FYS

Fall CLAS0210L S01 15504 TTh 1:00-2:20(10) (J. Cherry)

0620 Greek Tragedy

An investigation of many of the surviving plays of the Greek tragedians Aeschylus, Sophocles, and Euripides. Considers the diverse aspects of ancient drama: the context, both religious and sociopolitical; issues of theatrical production, the poetic texture of the plays; and the influence of classical drama on later drama and western thought. Additional readings may include Aristophanes' Frogs and Thesmophoriazusae and selections from Aristotle's Poetics, the earliest criticism of Greek tragedy. LILE WRIT

Fall CLAS0620 S01 15505 MWF 2:00-2:50(07) (J. Debrouhun)

0660 The World of Byzantium

Caught between the East and West, the culture of Byzantium inherited the ancient worlds of Greece, Rome, and Jerusalem, nurturing many a modern ideology, conflict, and identity. Byzantium is explored through its history, texts, and art. We examine the foundation and history of Constantinople, Iconoclasm, the Crusades, medieval Christianity and Islam, Byzantine court life, concepts of gender, self, and sexuality.

Fall CLAS0660 S01 15953 TTh 10:30-11:50(09) (E. Papaioannou)

0820 Epics of India

An introduction to Indian epic literature with reading and analysis of one or more of India's grand and powerful epics, such as the Mahabharata, the Ramayana, the Cilappadikaram, and others. DVPS

Fall CLAS0820 S01 15506 TTh 2:30-3:50(11) (J. Fitzgerald)

0900 Greek Mythology

Reviews major myths along with some lesser known variations, in order to understand how ancient Greeks imagined their relation to the divine world, to nature, and to other human beings. Considers connections between myth and cult or ritual, and also to psychological, social, historical, and aesthetic aspects of classical myths. Examines adaptations of classical myths in later societies and comparative materials from other cultures.

Spr CLAS0900 S01 24729 MWF 2:00-2:50(07)

0990 Concepts of the Self in Classical Indian Literature

Examination of the great Indian epic Mahabharata and related mythology to introduce the context for the most ancient speculations of the Rg Veda and the subtle teacher-student dialogues about the self

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
Erotic desire may be a universal human phenomenon. How we explain, depict, express, or experience desire is, however, not a universal, uniform matter. The premodern Mediterranean (from roughly the fifth century BCE to the fifteenth century CE) gives us a variety of forms of sexual experience and expression. We will study the history of these forms through texts, images, and objects: from Platonic love or eros to Roman tales of romance, from Judeo-Christian mysticism to Islamic literature, from sexual diets to erotic amulets. Enrollment limited to 25 students.

Spr CLAS1750L S01 25799 TTh 10:30-11:50(09) (E. Papaioannou)

1770 Ancient Law, Society and Jurisprudence
After a brief survey of modern legal systems (USA, common and civil law systems), we return to Athens and Rome. Topics: sources of law, its evolution, (e.g., feuding societies); procedural law (e.g., how to bring cases); legal reasoning; rhetoric; substantive law (e.g., regarding marriage, religion, homicide). Different approaches are used: historical, comparativist, anthropological, case-law study.

Spr CLAS1770 S01 24247 TTh 10:30-11:50(09) (A. Scafuro)

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
Spring XLIST  Courses of Interest to Classics Concentrators
The following courses may be taken for concentration credit. Please see the sponsoring department for the time and location of each course.

Archaeology and the Ancient World
ARCH 2020E Economy and Trade in the Later Bronze Age Aegean and East Mediterranean
ARCH 2040H Imperial Cities

Judaic Studies
JUDS 0530 Judaism, Christianity, and the Bible

History
HIST 2970I Methods in Ancient History

Archaeology and the Ancient World
ARCH 0310 Archaeology of Ancient Death
ARCH 2010G Archaeological Ethics

Archaeology and the Ancient World
ARCH 0330 Art in Antiquity: An Introduction

Greek
(Primarily for Undergraduates)

0100 Essentials of the Greek Language
A two-semester approach to ancient Greek with special emphasis on developing facility in rapid reading of Greek literature. Selections from Attic Greek authors. No previous knowledge of Greek is required.

Fall  GREK0100  S01  10272  MWF 10:00-10:50(03) & TTh 12:00-12:50(06)

0300 Introduction to Greek Literature
Introduction to Greek literature through intensive reading. Prerequisite: GREK 0200, GREK 0110, or the equivalent. We will work on grammar skills while reading extensively in the Histories of Herodotus, who is not only the "father of history" but also a great (and delightful) artist in prose.

Fall  GREK0300  S01  10273  MWF 10:00-10:50(03)

0310 Grammar Review and Composition
Half-credit course with attention to student's individual needs.

Fall  GREK0310  S01  14695  Th 1:00-2:20(10)

0400 Introduction to Greek Literature
Prerequisite: GREK 0300 (or the equivalent). Review of grammar of the Attic dialect through rapid reading of texts by Lysias, Plato, or Xenophon. Emphasis on syntax and style.

Spr  GREK0400  S01  20248  TTh 9:00-10:20(08)

1080 Attic Orators

(Fall  SPRING  SUMMER)

0200 Essentials of the Greek Language
Second half of a two-semester approach to ancient Greek with special emphasis on developing facility in rapid reading of Greek literature. Selections from Attic Greek authors. No previous knowledge of Greek is required.

Spr  GREK0200  S01  20247  MWF 10:00-10:50 & TTh 12:00-12:50(06)

1100 Rhetors and Philosophers: Intellectual Thought and Sophistic Style in the Ancient World
In a series of notorious dialogues, Plato delineated a distinction between two professions that were to define future intellectual history: philosophy and rhetoric, the science of thinking juxtaposed to the art of speaking. We will study the transformations of this distinction in four exceptional socio-cultural contexts: Classical Athens, Imperial Rome, Late Antique Alexandria, and Medieval Constantinople. We will discuss the basics and varieties of educational curricula (Aristotle's Academy, Second Sophistic, Neoplatonism), the social position and self-definition of ancient intellectual figures, and the ever-fluid boundaries between content and form, thought and style; ultimately, between philosophy and literature.

Fall  GREK110T  S01  15512  MWF 10:00-10:50(03) & TTh 12:00-12:50(06)

1110L Aeschylus' Agamemnon
Spr  GREK1110L S01  25797  TTh 1:00-2:20(10)  (A. Scafuro)

1110J Plato: Theaetetus
Theaetetus is in many ways Plato's most modern dialogue. The central question is: what is it to know something? Is knowledge some sort of skill? Is it perception? True judgment? Some sort of account together with true judgment? We will read the dialogue in Greek and discuss Plato's fascinating investigation of knowledge.

Fall  GREK1110J S01  15512  MWF 2:00-2:50(07)  (M. Gill)

1150 Greek Prose Composition
Survey of Greek grammar and an opportunity to reflect on problems of translation. Main goals: to improve the students' command of prose syntax (both in reading and writing), and to develop a keen sensitivity towards issues of translation. A variety of texts written in Attic prose are read and analyzed in class. Students are expected to write two to three compositions a week in good Attic prose. Advanced knowledge of ancient Greek is a prerequisite for this course.

Fall  GREK1150  S01  15514  MWF 11:00-11:50(04)

1810 Early Greek Literature
Surveys early Greek literature. Works studied include the Iliad, Odyssey, the Hesiodic poems, and archaic lyric and elegiac poetry. Emphasis on literary interpretation, the interpretive problems inherent in the study of archaic poetry, and the poetics of oral poetry. Extensive readings in the original.

Spr  GREK1810  S01  25308  MWF 10:00-10:50(03)  (P. Nieto Hernandez)

1910 Special Topics
Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor's permission required.

Fall, Spr

1990 Conference: Especially for Honors Students
Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor's permission required.

Fall, Spr

(Primarily for Graduates)

2110 Graduate Seminar

2110A Homer

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
A close reading of the entire Odyssey, exploring all aspects of the poem, from its oral composition, language, and style to its background myths and social dimensions. Homer’s text will be read in Greek, and extensive secondary sources in several languages will be used.

Fall GREK2110A S01 15515 M 3:00-5:20(13) (P. Nieto Hernandez)

2110F Greek Palaeography and Premodern Book Cultures
Introduction to pre-modern Greek book culture and the study of Greek literary scripts from classical antiquity to the Renaissance. Students become acquainted with the history of books, the context and agents of their production, and the transmission of Greek (classical as well as post-classical) literature. Training is provided in reading and dating different scripts and in editing ancient texts.

Spr GREK2110F S01 25309 F 3:00-5:20(15) (E. Papaioannou)

2970 Preliminary Exam Preparation
For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing for a preliminary examination.

Fall GREK2970 S01 10328 'To Be Arranged'
Spr GREK2970 S01 20326 'To Be Arranged'

2980 Reading and Research
Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course.

Fall; Spr

2990 Thesis Preparation
For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing a thesis.

Fall GREK2990 S01 10353 'To Be Arranged'
Spr GREK2990 S01 20357 'To Be Arranged'

Latin
(Primarily for Undergraduates)

0100 Essentials of the Latin Language
An intensive two-semester approach to Latin with special emphasis on developing facility in the rapid reading of Latin literature. No previous knowledge of Latin is required.

Sum LATN0100 S01 60300 MWF 1:00-3:40 (J. Pucci)
Fall LATN0100 S01 10429 MWF 12:00-12:50 & TTh 12:00-12:50(12)

0110 Introduction to Latin
Intensive, one-semester introduction to Latin. No previous knowledge of Latin is required.

Spr LATN0110 S01 25684 MWF 11:00-11:50 & TTh 12:00-12:50(04)

0200 Essentials of the Latin Language
Second course in an intensive two-semester approach to Latin. Special emphasis on developing facility in the rapid reading of Latin literature. No previous knowledge of Latin is required.

Spr LATN0200 S01 20359 MWF 12:00-12:50 & TTh 12:00-12:50(05)

0300 Introduction to Latin Literature
Introduction to Latin literature through intensive reading of major authors in prose and poetry with careful attention to grammar and style. Prerequisite: LATN 0100, 0200 or 0110 (or equivalent).

Fall LATN0300 S01 10431 MWF 10:00-10:50(03)

0310 Grammar Review and Composition
Half-credit course with attention to student's individual needs.

Fall LATN0310 S01 14696 T 1:00-2:20(10)

0400 Introduction to Latin Literature
Introduction to Latin literature through intensive reading of major authors in prose and poetry with careful attention to grammar and style. Prerequisite: LATN 0100, 0200 or 0110 (or equivalent).

Spr LATN0400 S01 20360 MWF 9:00-9:50(02)

(For Undergraduates and Graduates)

1110 Selections from Latin Authors

1110F Fortunatus
Wide reading in the occasional poetry of the most prolific writer of the early Middle Ages, attending to diction, meter, imagery, allusion, and paying special attention to the (homo- and hetero-) erotic pieces written to the poet's friends.

Fall LATN1110F S01 15517 MWF 2:00-2:50(07) (J. Pucci)

1110G Latin Love Elegy
Reading of representative selections from each of the Roman elegists: Tibullus, Propertius, and Ovid. Discussion also of the origins and development of love elegy at Rome and exploration of the themes and topos that define the genre. Follows the poets' negotiations with various discourses and ideologies in Augustan Rome: literary, social, sexual, and political.

Fall LATN1110G S01 15518 MWF 11:00-11:50(04) (J. Debrohun)

1110I Lucretius
Lucretius' De Rerum Natura, a long philosophical poem, is both a major source for Epicurean philosophical thought and an example of the ambitious Latin poetry of the late Roman Republic. We will read extensive selections from the poem in Latin. Our aim will be to make a detailed exploration of these sections through close reading of the Latin text and discussion of linguistic, literary, and cultural problems.

Spr LATN1110I S01 25310 TTh 9:00-10:20(08) (J. Reed)

1110Y Latin Epistolography (Cicero, Pliny)
The personal correspondences of Cicero and of Pliny the Younger offer insight into the social and political workings of Rome in two critical periods: the final decades of the Republic and the decades just before the Empire reached its greatest extent. Selections from Cicero, composed for a private audience, expose the statesman's inner hopes and anxieties regarding his family, his friends, and his state. Selections from Pliny, self-consciously published by the author himself, not only recount exciting moments in Roman history (such as the early persecution of Christians and Vesuvius' eruption), but also play with the very genre of epistolography.

Fall LATN1110Y S01 15519 MWF 9:00-9:50(02) (L. Mignone)

1120 Selection from Later Latin Authors

1120C Survey of Late and Medieval Latin
A study of the masterworks of the Latin language written between 350 C.E. and 1300 C.E., with special emphasis on the 4th, 8th, and 12th centuries. The historical development of Latin literature; changes in Latin grammar, syntax, and morphology; innovations in genre,

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
1150 Latin Prose Composition
Review of the basic tenets of Latin syntax, composition, and style. English to Latin translation exercises will shore up composition skills, as we study the stylistic traits of seven Roman authors: Cato, Caesar, Cicero, Sallust, Livy, Seneca, and Tacitus. The course will proceed chronologically according to author. Class time will be spent on translation exercises and review, as well as the identification of the stylistic and syntactic characteristics of the seven authors under study.

Spr LATN1150 S01 25312 TTh 10:30-11:50(09) (L. Mignone)

1820 Survey of Roman Literature II: Empire
This course will survey the major authors of Latin literature in chronological order from Virgil.

Fall LATN1820 S01 15520 MWF 1:00-1:50(06) (J. Reed)

1970 Special Topics
Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course.

Fall; Spr

1990 Conference: Especially for Honors Students
Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor’s permission required.

Fall; Spr

(Primarily for Graduates)

2010 Graduate Seminar

2010J Terence and Reception in Donatus
We will survey the Latin poetry of the Julio-Claudian period, focusing on collections of pseudonymous texts that have come down under the names of Virgil and others that include epic, lyric, epigrammatic, elegiac, and other types of poetry, ranging in theme from high-flown panegyrics to raunchy Priapea. Some of these exerted great influence on later writing; some are almost unknown. We will aim for a more nuanced view of Latin poetry and Roman culture between and around the better-studied poetic texts of the period.

Spr LATN2010J S01 25313 W 3:00-5:20(14) (J. Reed)

2010I Appendix Virgiliana
We will survey the Latin poetry of the Julio-Claudian period, focusing on collections of pseudonymous texts that have come down under the names of Virgil and others that include epic, lyric, epigrammatic, elegiac, and other types of poetry, ranging in theme from high-flown panegyrics to raunchy Priapea. Some of these exerted great influence on later writing; some are almost unknown. We will aim for a more nuanced view of Latin poetry and Roman culture between and around the better-studied poetic texts of the period.

Spr LATN2010I S01 25313 W 3:00-5:20(14) (J. Reed)

2970 Preliminary Exam Preparation
For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing for a preliminary examination.

Fall LATN2970 S01 10543 ‘To Be Arranged’
Spr LATN2970 S01 20403 ‘To Be Arranged’

2980 Reading and Research
Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course.

Fall; Spr

2990 Thesis Preparation

For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing a thesis.

Fall LATN2990 S01 10560 ‘To Be Arranged’
Spr LATN2990 S01 20481 ‘To Be Arranged’

Modern Greek

(Primarily for Undergraduates)

0100 Introduction to Modern Greek
Designed for students with little or no prior knowledge of Modern Greek. The aim is to develop the students’ ability to speak, understand, write and read Modern Greek, using a variety of themes ranging from talking about one’s self and getting by in a Greek speaking environment, to expressing ideas and opinions on various topics.

Fall MGRK0100 S01 10561 MWF 12:00-12:50 & TTh 12:00-12:50(05) (E. Amanatidou)

0200 Introduction to Modern Greek
Designed for students with little or no prior knowledge of Modern Greek. The aim is to develop the students’ ability to speak, understand, write and read Modern Greek, using a variety of themes ranging from talking about one’s self and getting by in a Greek speaking environment, to expressing ideas and opinions on various topics.

Spr MGRK0200 S01 20415 MWF 12:00-12:50 & TTh 12:00-12:50(05) (E. Amanatidou)

0300 Intermediate Modern Greek
Continuation of MGRK 0100 and MGRK 0200, but may also be taken by anyone with an adequate language and vocabulary awareness. The course focuses on further development of the four language skills and provides students with the opportunity to familiarize themselves with, and expand their knowledge of, aspects of Greek culture and society.

Fall MGRK0300 S01 10562 TTh 9:00-10:20(08) (E. Amanatidou)

0400 Intermediate Modern Greek
Continuation of MGRK 0100 and MGRK 0200, but may also be taken by anyone with an adequate language and vocabulary awareness. The course focuses on further development of the four language skills and provides students with the opportunity to familiarize themselves with, and expand their knowledge of, aspects of Greek culture and society.

Spr MGRK0400 S01 20416 TTh 9:00-10:20(08) (E. Amanatidou)

0500 Advanced Modern Greek
Places emphasis on the improvement of oral/aural skills via presentations, debates and conversation based on readings of literary and journalistic prose. Relationship between Greek poetry and music explored through a survey of mainly post-war poetry that has been put to music. Writing activities include creative writing, critical commentaries and translation from and into Greek.

Fall MGRK0500 S01 10564 ‘To Be Arranged’ (E. Amanatidou)

0600 Advanced Modern Greek
Advanced level course for students wishing to improve their language skills, especially reading and writing. A central feature of the course is reading and responding to material taken from literary texts and journalistic prose, dealing with contemporary issues such as education, employment, etc.

Spr MGRK0600 S01 20420 ‘To Be Arranged’ (E. Amanatidou)

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
Sanskrit

(Primarily for Undergraduates)

0100 Elementary Sanskrit
After examining the relation of this ancient Indo-European language to our own language and studying its sounds, script, and phonological processes, the remainder of the first semester and half of the second surveys the intricate and highly organized structure of the grammar. Second semester closes with reading a selection from the Indian epic, The Mahābhārata.

Fall SANS0100 S01 10589 MWF 9:00-9:50(02) (P. Scharf)

0200 Elementary Sanskrit
Continuation of SANS0100.

Spr SANS0200 S01 20443 MWF 9:00-9:50(02) (P. Scharf)

0300 Sanskrit Epic Narrative
Consolidates and extends the knowledge of Sanskrit grammar introduced in first year Sanskrit; acquaints students first-hand with basic themes of ancient Indian culture, and cultivates the reading and interpretive skills necessary to read epic and closely related Sanskrit narrative with comprehension and increased fluency. Prerequisite: SANS 0200.

Fall SANS0300 S01 10590 TTh 10:30-11:50(09) (J. Fitzgerald)

0400 Classical Sanskrit Story Literature
Introduces students to the more challenging Sanskrit of classical story literature and continues to extend the knowledge of Sanskrit grammar introduced in first year Sanskrit and developed in SANS 0300, as well as present basic Indian cultural themes. Prerequisite: SANS 0300.

Spr SANS0400 S01 25798 TTh 2:30-3:50(11) (J. Fitzgerald)

(For Undergraduates and Graduates)

1080 The Critical Episodes of the Mahabharata
A guided tour of the structure of the Mahābhārata, "The Great Epic of India," through the reading in Sanskrit of selected critical passages. Prerequisite: SANS 0200.

Spr SANS1080 S01 25315 TTh 10:30-11:50(09) (J. Fitzgerald)

1600 Sanskrit Belles Lettres
Introduction to kāvya (classical Sanskrit belles lettres)—poetry, drama, and prose narrative—through the reading of authors of the Classical Period as well as works on aesthetics and commentaries upon them. Prerequisite: SANS 0400.

Fall SANS1600 S01 15522 MWF 11:00-11:50(04) (P. Scharf)

1990 Conference: Especially for Honors Students
Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor's permission required. Instructor's permission required.

Fall; Spr

Cognitive, Linguistic, and Psychological Sciences

Note: at the 100, 1000, and 2000 levels, the next digit denotes the course topic area: 1 = Comparative Psychology, 2 = Cognition, 3 = Linguistics, 4 = Cognitive Neuroscience, 5 = Perception, 6 = Development, 7 = Social/Personality, 8 = Psycholinguistics-Neurolinguistics, and 9 = Methodology.

(Primarily for Undergraduates)

0010 Elementary Psychology: An Introduction to Mind and Behavior (formerly PSYC 0010)
A survey covering the roles of inherited and environmental determinants of human behavior. Topics include sensation, perception, learning, memory, motivation, emotion, neural processes, language, social development, personality assessment, obedience, interpersonal attraction, and the diagnosis, origins, and treatment of mental illness. Laboratory sections illustrate methodologies used to study these issues. Topic selection varies with instructor.

Spr CLPS0010 S01 25919 MWF 11:00-11:50(04) (M. Macinnis)

0020 Approaches to the Mind: Introduction to Cognitive Science (formerly COGS 0010)
Cognitive science is the study of the mind from an interdisciplinary perspective. It focuses on such questions as how do we process information to recognize objects and faces, to know that a cup is not a bowl, to remember and learn, and to speak and understand? How can studying the brain inform us about the mind? This course will examine the above questions and discuss major themes in cognitive science including nature-nurture, categories and representations, and the nature of computations. WRIT

Fall CLPS0020 S01 15670 MWF 12:00-12:50(12) (S. Blumstein)

0030 Introduction to Linguistic Theory (formerly COGS 0410)
The ability to speak and understand a language involves having mastered (quite unconsciously) an intricate and highly structured rule-governed system. Linguists seek to model that rule system. This course introduces the principles underlying phonology (the principles which govern how sounds are put together), syntax (the rule system governing sentence structure), and semantics (the system which relates sentences to meanings). LILE

Fall CLPS0030 S01 15671 TTh 10:30-11:50(09) (P. Jacobson)

0040 Mind and Brain: Introduction to Cognitive Neuroscience (formerly COGS 0720)
This course provides an introduction to the neuroscientific study of cognition. Topics surveyed in the course include the neural bases of perception, attention, memory, language, executive function, emotion, social cognition, and decision making. In covering these topics, the course will draw on evidence from brain imaging (fMRI, EEG, MEG), transcranial magnetic stimulation, electrophysiology, and neuropsychology. The course will also consider how knowledge about the brain constrains our understanding of the mind.

Fall CLPS0040 S01 15672 MWF 10:00-10:50(03) (D. Badre)

0050 First Year Seminars
Enrollment limited to 20 first year students. FYS

0050A Computing as Done in Brains and Computers (formerly COGS 0100A)
Brains and computers compute in different ways. We will discuss the software and hardware of brains and computers and with introduction to the way brains are organized, the way computers are organized, and why they are good at such different things. We will talk about our current research, the Ersatz Brain Project, an attempt to design a first-class second-class brain. Enrollment limited to 15 first year students. FYS

Fall CLPS0050A S01 15673 MWF 10:00-10:50(03) (J. Anderson)

0100 Learning and Conditioning (formerly PSYC 0900)

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
Spr  CLPS0100  S01  25486  MWF 1:00-1:50(06)  (R. Colwill)

0110  Mechanisms of Animal Behavior (formerly PSYC 0500)
An examination of physiological and evolutionary mechanisms underlying species-specific behavior in both vertebrate and invertebrate animals. Topics include: evolution and mechanisms of sensory systems, modes of locomotion, orientation and navigation, communication, and cognitive capacities of animals.

Spr  CLPS0110  S01  25487  MWF 11:00-11:50(04)  (A. Simmons)

0120  Introduction to Sleep (formerly PSYC 0550)
Uses sleep as the focal point for describing complex behavioral phenomena. How is sleep measured and defined? How does sleep differ across species? What accounts for the timing of sleep? How does sleep change with age? What are the behavioral, physiological, and cognitive concomitants of different states of sleep? How can dreaming be understood? What can go wrong with sleep?

Fall  CLPS0120  S01  15675  M 3:00-5:20(13)  (M. Carskadon)

0200  Human Cognition (formerly COGS 0420)
Introduction to theoretical issues and empirical findings motivating controversies in human cognition. Basic issues in cognition - including attention, memory, categorization, reasoning, decision making and problem solving will be examined. Emphasis will be on experimental methods and formal theories. LILE

Spr  CLPS0200  S01  25488  TTh 9:00-10:20(08)  (S. Sloman)

0400  Brain Damage and the Mind (formerly PSYC 0470)
Brain damage in human subjects can produce dramatic and highly selective impairments in cognitive functioning. This course provides an overview of the major neuropsychological disorders of perception, language, memory, thought, and action. Emphasizes the development of human information processing models for understanding the cognitive deficits observed in brain-damaged patients and the implications of neuropsychological findings for models of normal cognition.

Fall  CLPS0400  S01  15676  MWF 11:00-11:50(04)  (E. Martino)

0500  Perception and Mind (formerly COGS/PSYC 0440)
How do the mind and the brain take physical energy such as light or sound and convert it into our perception of the world? This course examines the behavioral and biological bases of human and animal perceptual systems, including vision, audition, smell, taste, and touch. Particular emphasis is placed on high-level perception and how it relates to other cognitive systems.

Spr  CLPS0500  S01  25489  MWF 1:00-1:50(06)  (L. Welch)

0610  Children’s Thinking: The Nature of Cognitive Development (formerly COGS 0630)
An examination of children’s thinking and cognitive development from infancy to middle childhood. Considers a range of topics including memory, reasoning, categorization, perception, and children’s understanding of concepts such as space, time, number, mind, and biology. Major theories of cognitive development are described and evaluated in light of the available psychological data. LILE

Fall  CLPS0610  S01  15677  MWF 1:00-1:50(06)  (D. Sobel)

0640  Developmental Psychopathology (formerly PSYC 0940)
A comprehensive introduction to child and adolescent psychological disorders. Focuses on risk, vulnerability, and protective factors in order to probe why some children develop significant psychological problems when others do not. Emphasis on how biological, psychological, and sociocultural factors interactively contribute to the development of psychopathology. Examines effective treatments, as well as educational and social policy implications. Prerequisite: CLPS 0010 (PSYC 0010).

Sum  CLPS0640  S01  60359  MW 6:00-10:00 PM

0700  Social Psychology (formerly PSYC 0210)
Examines the theories, findings, and methods of social psychology. Topics include: social cognition (person perception, attitudes), social influence (cultural sources of attitudes, conformity), and social relations (agression, altruism, prejudice). Students become better informed consumers of empirical research and acquire a new framework for interpreting social behavior. Applications to historic and current events.

Fall  CLPS0700  S01  15678  TTh 2:30-3:50(11)  (B. Malle)

0701  Personality (formerly PSYC 0300)
A survey of the major perspectives (psychoanalytic, behavioral, humanistic, etc.) within theories of personality. Particular emphasis is placed on the integration of research and theory.

Spr  CLPS0701  S01  25491  TTh 9:00-10:20(08)  (B. Hayden)

0800  Language and the Mind (formerly COGS 0450)
Explores fundamental issues in psycholinguistics: what is the nature of language; what are its biological underpinnings; how does the mind process speech, recognize words, parse sentences, comprehend discourse; what do effects of brain injuries on language reveal about the organization of language in the mind? Syntheses of results from multiple modes of analysis – linguistic, psychological, computational, and neurophysiological – are emphasized. LILE

Spr  CLPS0800  S01  25492  MWF 11:00-11:50(04)  (J. Morgan)

0810  The Biology and Evolution of Language (formerly COGS 0320)
Human language is made possible by specialized anatomy and brains that can regulate speech production, complex syntax, and acquiring and using thousands of words. This course examines Darwin's theory of evolution and the archaeological and fossil records of human evolution; studies of chimpanzee communication, culture, and language which provide insights on human evolution; the physiology of human speech; and recent studies of the brain bases of human language and thought.

Spr  CLPS0810  S01  25493  MWF 1:00-1:50(06)  (P. Lieberman)

0900  Quantitative Methods in Psychology (formerly COGS/PSYC 0090)
A survey of statistical methods used in the behavioral sciences. Topics include graphical data description, probability theory, confidence intervals, principles of hypothesis testing, analysis of variance, correlation, and regression, and techniques for categorical data. Emphasizes application of statistical methods to empirical data.

Fall  CLPS0900  S01  15679  MWF 1:00-1:50(06)  (K. Spoehr)
Spr  CLPS0900  S01  25494  TTh 10:30-11:50(09)  (J. Wright)
(For Undergraduates and Graduates)

1180  Topics in Comparative Psychology

1180B  Biology of Communication (formerly PSYC 1750A)
The study of animal communication systems from mechanistic, developmental, ecological, and evolutionary perspectives. The uses of auditory, chemical, and visual cues for mediating intraspecific
communication in both vertebrate and invertebrate animals. Recommended prerequisites: CLPS 0110 (PSYC 0500), CLPS 1192 (PSYC 1200), BIOL 0450, or equivalent. Instructor’s permission required.

Fall CLPS1180B S01 15680 M 3:00-5:20(13) (R. Colwill)

1192 Experimental Analysis of Animal Behavior and Cognition (formerly PSYC 1200)
A laboratory course on the prediction, control, and explanation of the behavior of animals in simple environments. Prerequisite: CLPS 0900 (PSYC/COGS 0090). Instructor’s permission required.

Fall CLPS1192 S01 15681 TTh 10:30-11:50(09) (R. Church)

1194 Sleep and Chronobiology Research (formerly PSYC 1060)
Part of a summer immersion in behavioral science research in human sleep and chronobiology. Instruction in human sleep and circadian rhythms, research techniques for basic physiology, laboratory techniques, ethics of research, and basic CPR. Research seminars explore other techniques and career paths. Recommended prerequisite: CLPS 0010 (PSYC 0010) is preferred; NEUR 0010 is also acceptable. Enrollment limited to 15.

Sum CLPS1194 S01 60355 “To Be Arranged” (M. Carskadon)

1200 Thinking (formerly COGS 1520)
An investigation of conceptual structure, judgment, and inferential processes. The focus is on the relation between empirical evidence, theories, and models of cognitive process and structure. Prerequisite: CLPS 0200 (COGS 0420).

Fall CLPS1200 S01 15682 Th 4:00-6:20(13) (S. Sloman)

1290 Laboratory in Cognitive Processes (formerly COGS 1530)
Presents the experimental way of thinking by pursuing several topics in an interactive computer-based laboratory. Students run experiments as a class and, by the end of the course, run their own experiment. Focus is on experimental design, procedure, analysis, and reporting. Topics include attention, visual imagery, memory, and reasoning. Prerequisite: CLPS 0900 (COGS/PSYC 0090), or either CLPS 0200 (COGS 0420), or CLPS 0500 (COGS 0440); or permission of the instructor.

Spr CLPS1290 S01 25497 M 3:00-5:20(13) (K. Spoehr)

1291 Computational Cognitive Science (formerly COGS 1280)
A detailed introduction to computational modeling of cognition, summarizing traditional approaches and providing experience with state-of-the-art methods. Covers pattern recognition approaches, shallow and hierarchical networks including Bayesian probabilistic models, and illustrates how they have been applied in several key areas in cognitive science, including visual perception and attention, object and face recognition, learning and memory as well as decision-making and reasoning. Focuses on modeling simple laboratory tasks from cognitive psychology. Connections to contemporary research in computer science will be emphasized highlighting how computational models may motivate the development of new hypothesis for experiment design in cognitive psychology.

Spr CLPS1291 S01 25498 TTh 1:00-2:20(10) (T. Serre)

1310 Introduction to Phonological Theory (formerly COGS 1210)
Examines some of the classic and current issues regarding sound structure in the world’s languages and introduces the theoretical tools needed to solve them. After a brief introduction to articulatory phonetics and phonemic analysis, it focuses on phonological analysis of different languages, discussing segmental phonology, syllable structure, autosegmental representations, stress systems, and prosodic word structure. Implications for language learning and language change are discussed. Prerequisite: CLPS 0030 (COGS 0410).

Spr CLPS1310 S01 25499 “To Be Arranged”

1320 The Production, Perception, and Analysis of Speech (formerly COGS 1230)
An introduction to the basis of the acoustic analysis of speech, the anatomy and physiology of speech production, and the perception of speech. Discussion and demonstration of quantitative computer-implemented methods for speech analysis. Linguistic and cognitive theories are discussed in relation to the probable neural mechanisms and anatomy that make human speech possible. Lectures, discussion, and laboratory demonstrations.

Fall CLPS1320 S01 15685 TTh 2:30-3:50(11) (P. Lieberman)

1330 Introduction to Syntax (formerly COGS 1310)
An in-depth investigation of natural language syntax, an intricate yet highly organized human cognitive system. Focuses primarily on the syntax of English as a means of illustrating the structured nature of a grammatical system, but the broader question at issue is the nature of the rule system in natural language syntax. Prerequisite: CLPS 0030 (COGS 0410).

Spr CLPS1330 S01 25500 TTh 2:30-3:50(11) (P. Jacobson)

1342 Formal Semantics (formerly COGS 1130)
Model-theoretic approaches to the study of the semantics of natural languages. Develops the tools necessary for an understanding of “classical” formal semantics (the lambda calculus, intensional logic; Montague’s treatment of quantification, etc.); then applies these tools to the analysis of natural language semantics; and finally turns to recent developments in formal semantic theory. Prerequisite: some familiarity with syntax or semantics or basic set theory and logic.

Spr CLPS1342 S01 25501 TTh 10:30-11:50(09) (P. Jacobson)

1381 Topics in Phonetics and Phonology
Fall CLPS1381 S01 15686 “To Be Arranged”

1389 Topics in Language Processing (formerly COGS 1840)
Spr CLPS1389 S01 25502 “To Be Arranged”

1400 The Neural Bases of Cognition (formerly PSYC 1880)
Research using animal models has informed and guided many of the recent advances in our understanding of the brain mechanisms underlying cognition. This seminar course will address topics related to animal models of human cognition. Students learn about how different aspects of the neural bases of cognition are modeled in animals by reviewing the primary research literature. The course is divided into three sections, each addressing one animal model in one cognitive domain. Selected papers will emphasize learning, memory, and attention, but may also address other aspects of cognition, for example decision-making, or cognitive impairment associated with neuropathology or aging. Prerequisite: CLPS 0040 (COGS 0720), CLPS 0400 (PSYC 0470), or NEUR 0010; and CLPS 1190 (PSYC 1030), CLPS 1191 (PSYC 1450), CLPS 1192 (PSYC 1200), or NEUR 1600; or instructor permission. Enrollment limited to 20. Not open to first year students.

Fall CLPS1400 S01 15687 F 12:00-2:20(12) (R. Burwell)

1480 Topics in Cognitive Neuroscience

1480A Cognitive Neuroscience of Emotion (formerly PSYC 1820)
Topics discussed in this course include: visual attention, awareness, emotional perception, and emotional memory. Classes will be structured around the discussion of current papers in the literature. Active participation in class is required, including the presentation of papers from the literature. Enrollment limited to 20.
1490 Functional Magnetic Resonance Imaging: Theory and Practice (formerly PSYC 1840)
This course will train students in the practice and use of functional magnetic resonance imaging (fMRI) as a cognitive neuroscience methodology. Topics covered include MRI physics, the physiological basis of the BOLD signal, experimental design, data collection, statistical analysis, and inference. A practical component of the course includes the opportunity to collect and analyze fMRI data at the Brown MRF. Prerequisites: CLPS 0040 (COGS 0720), CLPS 0400 (PSYC 0470), or NEUR 0010; and CLPS 0900 (PSYC/COGS 0090), or instructor permission. Enrollment limited to 20.

Spr CLPS1490 S01 25503 TTh 2:30-3:50(11) (D. Badre)

1491 Neural Modeling Laboratory (formerly COGS 1020)
Numerical simulations of cognitively oriented nervous system models. Discussion of parallel, distributed, associative models: construction, simulation, implications, and use. Prerequisites: MATH 0090, 0100, or equivalent; knowledge of a computer language; some background in neuroscience or cognitive science is helpful.

Spr CLPS1491 S01 25504 MWF 10:00-10:50(03) (J. Anderson)

1492 Laboratory in Computational Cognitive Neuroscience (formerly COGS 1460)
We explore neural network models that bridge the gap between biology and cognition. Begins with basic biological and computational properties of individual neurons and networks of neurons. Examines specialized functions of various brain systems (e.g., parietal cortex, frontal cortex, hippocampus, ganglia) and their involvement in various phenomena, including perception, attention, memory, language and higher-level cognition. Includes a lab component in which students get hands on experience with graphical neural network software, allowing deeper appreciation for how these systems work. Prerequisites: CLPS 0020 (COGS 0010) or CLPS 0200 (COGS 0420); and CLPS 0410 (PSYC 0750) or NEUR 0010.

Fall CLPS1492 S01 15689 TTh 10:30-11:50(09) (M. Frank)

1520 Computational Vision (formerly COGS 1200)
A detailed introduction to computational models of biological and machine vision summarizing traditional approaches and providing experience with state-of-the-art methods. Topics include low-level vision (color, motion, depth and texture), segmentation, face, object and scene recognition. Connections to contemporary research in cognitive vision and computational neuroscience will be emphasized highlighting how computational models may motivate the development of new hypothesis for experiment design in cognitive psychology.

Fall CLPS1520 S01 15690 TTh 1:00-2:20(10) (T. Serre)

1580 Topics in Perception

1580A Visually-Guided Action and Cognitive Processes
One of the main purposes of encoding visual information is to perform visually-guided actions to directly interact with the external world. This seminar will shed light on the behavioral and underlying neural mechanisms involved in integrating perception and cognitive processes, and converting them into action. We will also explore how visuo-motor behavior can provide a useful tool to study a wide range of conscious and unconscious cognitive processes including the current locus of attention, the nature of language representation, spatial representation of number, and high-level decision-making.

Fall CLPS1580A S01 15691 TTh 9:00-10:20(08) (J. Song)

1600 History and Theories of Child Development (EDUC 1710)
Interested students must register for EDUC 1710 S01 (CRN 14624).

1610 Cognitive Development (formerly COGS 1180)

1621 The Developing Brain (formerly PSYC 1750C)
Analysis of brain developing focusing on neural substrates of psychological processes. Prerequisites: CLPS 0010 (PSYC 0010) or NEUR 0010. Not open to first year students or sophomores. Instructor permission required.

Fall CLPS1621 S01 15694 TTh 1:00-2:20(10) (B. Hayden)

1690 Laboratory in Developmental Psychology (formerly COGS 1610)
Conceptual and methodological foundations of research design and analysis in developmental psychology, with particular reference to techniques commonly used in studying cognitive development. We will cover general principles of experimental design, measurement and assessment, and strategies of data analysis. Practical and ethical issues involved in conceiving, designing, executing, interpreting, and presenting research will be considered. Recommended prerequisites: CLPS 0610 (COGS 0630), and CLPS 0900 (PSYC/COGS 0090) or equivalent. Enrollment limited to 15.

Spr CLPS1690 S01 25506 'To Be Arranged'

1700 Abnormal Psychology (formerly PSYC 1330)
The study of anxiety, stress, and neurotic disorders, psychosomatic disorders, deviant social behavior, affective disorders, and schizophrenia. Considers theories of etiology (causes) and methods of therapeutic treatment, case studies, experimental research, and clinical research.

Fall CLPS1700 S01 15694 TTh 1:00-2:20(10) (B. Hayden)

1790 Personality and Clinical Assessment (formerly PSYC 1110)
Examines methods used in the study of child and adult personality, including microanalysis of social interactions, observer report, self report, test data, and life outcome data. Standardized personality assessment instruments will be examined in the context of their reliability, predictive and construct validity. Students will design research projects using these methods, collect and analyze data, give oral presentations, and prepare a written report of their research. Prerequisites: CLPS 0701 (PSYC 0300), and CLPS 0900 (PSYC/COGS 0090) or equivalent. Enrollment limited to 27.

Fall CLPS1790 S01 15695 TTh 1:00-2:20(10) (J. Wright)

1791 Laboratory in Social Cognition (formerly PSYC 1540)
Examines principles of experimental design and analysis in the context of classic and contemporary research in social cognition. Students replicate and extend several studies on topics such as person perception, social stereotyping, or judgment and decision making. Students will participate in the design of these studies, gather their own data, analyze them, and report the findings in oral presentations and written reports. Prerequisites: CLPS 0010 (PSYC 0010), CLPS 0700 (PSYC 0210), and CLPS 0900 (PSYC/COGS 0090). Enrollment limited to 27.

Spr CLPS1791 S01 25507 TTh 1:00-2:20(10) (J. Krueger)

1800 Language Processing (formerly COGS 1410)
Explores the nature of language processing with the goal of understanding how we produce and comprehend language. Topics include speech production and speech perception, lexical processing, and syntactic processing. Experimental investigations are studied in an
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attempt to understand the processes and mechanisms employed in the everyday use of language. Prerequisite: one of CLPS 0020 (COGS 0010), CLPS 0030 (COGS 0410), or CLPS 0800 (COGS 0450).

Fall CLPS1800 S01 15696 ‘To Be Arranged’

1820 Language and the Brain (formerly COGS 1480)

This course will examine the neural systems underlying language processing. Major focus will be on effects of brain injury on speaking and understanding in left hemisphere-damaged patients who have aphasia, right hemisphere-damaged patients, and split-brain patients. Behavioral, electrophysiological and neuroimaging evidence will be investigated.

Spr CLPS1820 S01 25508 MWF 10:00-10:50(03) (S. Blumstein)

1900 Senior Seminar in Cognitive Science (formerly COGS 1950)

Examines general philosophical and theoretical issues that cut across cognitive science. Each student writes a substantial paper on a topic in cognitive science. Required of cognitive science concentrators. Enrollment limited to concentrators in the 7th semester or beyond, and, by permission, to others who have significant course background in cognitive science.

Spr CLPS1900 S01 25509 W 3:00-5:20(14) (J. Anderson)

1970 Independent Study (formerly COGS 1980)

Independent study or directed research in cognitive science. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course.

Fall; Spr

(Primarily for Graduates)

2000 Graduate Proseminar I (formerly COGS 2000)

Required of all graduate students in the cognitive science program.

Fall CLPS2000 S01 15697 ‘To Be Arranged’

2001 Graduate Proseminar II

Pending Approval. No description available. Open to graduate students only.

Spr CLPS2001 S01 25753 ‘To Be Arranged’

2010 Neural Components of Reinforcement Learning and Decision Making

Pending Approval. No description available.

Spr CLPS2010 S01 25510 M 3:00-5:20(13) (M. Frank)

2091 Graduate First Year Project Research (formerly PSYC 2000)

Please check Banner for the correct section number and CRN to use when registering for this course.

Fall

2092 Graduate First Year Project Research (formerly PSYC 2010)

Please check Banner for the correct section number and CRN to use when registering for this course.

Spr

2095 Practicum in Teaching (formerly COGS/PSYC 2050)

Each student will assist a designated faculty member in teaching a course in cognitive science or related discipline. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course.

Fall; Spr

2096 Directed Graduate Research (formerly COGS 2980/2981, PSYC 2030)

Fall; Spr

2181 Advanced Topics in Animal and Human Learning (formerly PSYC 2320B)

Topics vary from year to year, examples include theories of associative learning, animal cognition, computational models of learning and performance, and neurobiological models of basic associative processes. Open to graduate students only.

Spr CLPS2181 S01 25511 Th 4:00-6:20(16) (R. Colwill)

2400 Core Topics in the Neural Basis of Behavior (formerly PSYC 2270)

Seminar on comparative aspects of brain evolution and function, with implications for behavior. Open to graduate students only.

Fall CLPS2400 S01 15698 F 12:00-2:30(12) (A. Simmons)

2500 Core Topics in Perception (formerly COGS 2200C, PSYC 2400)

Open to graduate students only.

Spr CLPS2500 S01 25512 ‘To Be Arranged’

2800 Core Topics in Language (formerly COGS 2200B)

Open to graduate students only.

Fall CLPS2800 S01 15699 TTh 9:00-10:20(08) (J. Morgan)

2906 Experimental Design (formerly PSYC 2060)

The course designed for students at the intermediate level or above and will cover t-tests, power analysis, correlation, simple and multiple linear regression, logistic regression, analysis or variance, non-parametric tests, randomization and bootstrapping, among others. Instructor permission required. Open to graduate students only.

Fall CLPS2906 S01 15700 TTh 10:30-11:50(09) (W. Heindel)

2908 Multivariate Statistical Techniques (formerly PSYC 2080)

This course covers the basic multivariate techniques currently used in psychology and related sciences: multiple regression, logistic regression, principal components and factor analysis, multivariate analysis of variance, discriminant function analysis, and log-linear analysis. Students will learn these techniques’ conceptual foundations, their proper selection for a given data set, and the interpretation of computer output from statistical analysis packages (primarily SPSS). Enrollment limited to 20 graduate students.

Spr CLPS2908 S01 25513 MW 10:30-11:50(04) (B. Malle)

2970 Preliminary Examination Preparation (formerly COGS/PSYC 2970)

For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing for a preliminary examination.

Fall CLPS2970 S01 15701 Th 10:30-11:50(09) (J. Morgan)

Linguistics

(Primarily for Undergraduates)

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
This course studies how Spain's exploration and conquest of the Americas tested European understandings of the natural world; of nature's bearing on human psycho-physiology and, thereby, on culture; and of the balance between normalcy and deviance in the natural and human domains. Topics range from changing theories about the distribution of land and life around the globe to "natural" and "moral" histories implicated in a debate over Spain's rights to the Americas and its peoples. We also consider current reassessments of Spain's contribution to the acquisition of natural and ethnographic knowledge in the early phases of the Scientific Revolution. Enrollment limited to 20. Not open to first year students or sophomores.

Fall  HMAN1970P  S01  15993  M 3:00-5:20(13)  (N. Wey-Gomez)

1970S Ethics and the Humanities
This seminar will engage with ethical issues in a broad range of humanities disciplines. We will survey historical and thematic perspectives on ethics, and will consider the ethical implications of authorship and possession of texts and objects; translation as an ethical problem; data and open access; the perspective of the human subject; public humanities, public intellectuals and community-based research; and ethical issues in popular culture. Enrollment limited to 20. Not open to first year students or sophomores.

Fall  HMAN1970S  S01  15630  Th 4:00-6:20(13)  (S. Bonde)

1970U The Ruins of Babel: Language, Violence, and Political Protest
This course considers how language difference relates to political protest and violence. Language stands alternately as a threat to or claim on broad social projects: nations and social movements alike unite around shared languages while threatening linguistic diversity as inherently threatening. We consider various cases, drawn from Latin America and other parts of the world, where language difference has been implicated in violence and political protest: the Conquest of the New World, rubber trade violence in the Amazon, separatist movements in Quebec and Basque country, and violence and political alliance surrounding Mexican immigrants to the United States, among others. Enrollment limited to 20. Not open to first year students or sophomores.

Spr  HMAN1970U  S01  25844  M 3:00-5:20(13)  (P. Faudree)

1970V To Be Determined
Pending Approval. Enrollment limited to 20. Not open to first year students or sophomores.

Spr  HMAN1970V  S01  25845  'To Be Arranged'  (J. Baruch)
Comparative Literature

(Primarily for Undergraduates)

0510 Literary Creation and Literary Discourse

0510B Caribbean Re-writes
Through close readings of canonical European texts and rewritings of them in the twentieth-century Caribbean, we explore the literary possibilities and political implications of writing the old in a new language. Readings include Columbus’s diaries alongside Carpenter’s The Harp and the Shadow (Cuba); Shakespeare’s The Tempest with that of Aimé Césaire (Martinique); and Jane Eyre and Wuthering Heights alongside novels by Jean Rhys (Dominica) and Maryse Condé (Guadeloupe). Enrollment limited to 20 first year students. FYS LILE

0510D Poetry and Music
Explores the collaboration between poets and composers in the twentieth century. It will primarily focus on Modern Greek composers (Hadjidakis, Theodorakis, Lagios and others) and their collaboration with numerous poets (García Lorca, Gatsos, Eluard, Elytis, Neruda, Ritsos and others). These works will also be examined in depth from a literary and theoretical perspective. Enrollment limited to 20 first year students. FYS LILE

0610 The Functions of Literature

0610D Rites of Passage
Examines a seemingly universal theme-coming of age by focusing on texts from disparate periods and cultures. Proposes that notions of "growing up" are profoundly inflected by issues of class, gender and race, and that the literary representation of these matters changes drastically over time. Texts from the Middle Ages to the present; money in mercantilized societies, in seventeenth century Japan, eighteenth century England, nineteenth century France, and twentieth century Africa. Novels featuring female protagonists by Saikaku, Defoe, Flaubert, Emechta and Bâ, readings in economic and feminist theory, and visual art--Japanese woodcuts, Hogarth, nineteenth century French painting, West African arts. LILE

0610G Literature and the American Presidency
We shall read widely in writings by, and about, selected American presidents, but also focus on the ways in which presidents have used literature as a dictional source in their own writing and thinking. We will attend also to the relationship of culture to power as evidenced in other textual media, such as film. FYS LILE

0610J Holocaust Literature (JUDS 0390)
Interested students must register for JUDS 0390 S01 (CRN 15666). DVPS LILE

0610K Unruly Crossings: Queerness, Race and Globalization (MCM 0901A)
Interested students must register for MCM 0901A S01 (CRN 25404).

0710 Literature and its History

0710C Introduction to Scandinavian Literature
An introduction to major works of Scandinavian writers, painters and filmmakers over the past 150 years. Figures include Kierkegaard, Ibsen, Strindberg, Munch, Hamsun, Josephson, Södergran, Lagerkvist, Vesaas, Cronqvist, August and Vinterberg, as well as children's books by Astrid Lindgren and Tove Jansson. LILE

0710D Inventing the Renaissance
The invention of the Renaissance as a cultural formation and as a part of the western cultural imaginary. We will consider the so-called "discovery of man," humanism and the recovery of the classical past, the production of scriptural identity or the "bibilographic ego," courtiership, the formation of the early modern state and the discovery of the "new world" through readings of major English and continental writers of the period.

0710I New Worlds: Reading Spaces and Places in Colonial Latin America
An interdisciplinary journey-combining history, literature, art, film, architecture, cartography-through representations of the many worlds that comprised the colonial Hispanic New World. We traverse the paradisiacal Antilles, the U.S. Southwest, Tenochtitlan/Mexico City, Lima, Potosí. We read European, indigenous, and Creole writers, including: Columbus, Las Casas, Bernal Díaz, Aztec poets, Guaman Pomar, Sor Juana. In English. Excellent preparation for study abroad in Latin America. Enrollment limited to 20 first year students. FYS WRIT

0810J The Colonial and Postcolonial Marvelous
Examines many forms of storytelling in Asia, from the Epic of Gilgamesh and the Arabian Nights Entertainments to works of history and fiction in China and Japan. The material is intended to follow the evolution of non-western narratives from mythological, historical and fictional sources in a variety of cultural contexts. Topics will include myth and ritual, the problem of epic, tales of love and the fantastic, etc. DVPS LILE

0810L The Colonial and Postcolonial Marvelous

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
A celebration and critique of the marvelous in South American and related literatures (U.S., Caribbean). We follow the marvelous from European exoticizing of the New World during the colonial period to its postcolonial incarnations in 'magical realism' and beyond. We attend particularly to the politics and marketing of the marvelous, in writers including Borges, Chamoiseau, Columbus, Garcia Márquez, Fuguet. Reading in English or Spanish. DVPS WRIT

Fall COLT0810J S01 15527 TTh 2:30-3:50(11) (S. Merrim)

0810T Oedipus in Theory and Literature
Explores the myth of Oedipus and its appropriations in theory and literature. It begins with an examination of the myth as it appears in Sophocles' Oedipus the King and Oedipus at Colonus and it proceeds to trace the adaptation of the myth in contemporary works (novels, films). The myth of Oedipus will be examined as a literary subtext but also in its political, philosophical, and psychoanalytic manifestations. Authors include: R. Girard, A. Green, S. Freud, J. Lacan, S. Zizek, H. Loewald, M. Klein, T. Mann, M. Koundandreas, N. Kazantzakis, F. Kafka, W. Shakespeare, Vargas Liosa, W. Allen, P. Pasolini. LITE

Fall COLT0810T S01 25321 MWF 1:00-1:50(06) (M. Pourgouris)

0810Z Myth and Literature
Authors throughout the ages have been fascinated by ancient mythology and have incorporated elements of it into their texts, often modifying commenting on or even destroying the original myth in the process. This course will investigate the values, dangers and limitations of myth-making/using in literature. Primary texts will include major works by Milton, Goethe, Kleist, Racine and Kafka. Texts will be supplemented by secondary readings and multimedia elements. Students will learn to question and engage critically with the historical, cultural, literary and scientific frontiers that separate myth and reality. Assignments will include two short papers and a final paper.

Sum COLT0810Z S01 60284 TTh 9:00-1:00 (N. Peterson)

0811B Believers, Agnostics, and Atheists in Contemporary Fiction (JUDS 0050A)
Interested students must register for JUDS 0050A S01 (CRN 14060).

0811F Writing War (ENGL 0800C)
Interested students must register for ENGL 0800C S01 (CRN 25158).

(For Undergraduates and Graduates)

1210 Introduction to the Theory of Literature
An historical introduction to problems of literary theory from the classical to the postmodern. Issues to be examined include mimesis, rhetoric, hermeneutics, history, psychoanalysis, formalisms and ideological criticism (questions of race, gender, sexuality, postcolonialism). Primarily for advanced undergraduates. Lectures, discussions, several short papers.

Fall COLT1210 S01 13220 MWF 12:00-12:50(12) (Z. Sng)

1410G Balkan Cinema
The course aims to familiarize students with Balkan Cinema (Greece, Former Yugoslavia, FYRO Macedonia, Turkey, and Bosnia-Herzegovina) as well as to examine the historical, literary, cultural, and political subtext(s) of the assigned films. The course methodology is comparative and interdisciplinary as it includes literary texts (fictional and poetry) in addition to theoretical commentaries (film theory, critical theory, reviews, etc).

Fall COLT1410G S01 15528 TTh 1:00-2:20(10) (M. Pourgouris)

1410L Philosophy and Tragedy
Explores the intersection of philosophy and tragedy in western literature. Readings include Aeschylus, Sophocles, Seneca, Plato, Aristotle, Racine, Calderón, Descartes, Pascal, Kant, Schelling, Hölderlin, Hegel, Nietzsche, and Heidegger.

Spr COLT1410L S01 23935 M 3:00-5:20(13) (P. Saval)

1410M Shakespeare and Philosophy
Explores the relationship between Shakespeare and philosophy. Readings include philosophers who have written about Shakespeare (Hegel, Nietzsche, Cavell, and others), as well as philosophers who may illuminate interpretive problems in Shakespeare (Plato, Seneca, Spinoza, and others).

Fall COLT1410M S01 15529 TTh 10:30-11:50(09) (P. Saval)

1410N Lost in Translation: The Adaptation of Literature to Film in Japan
Contrasting the demands of the text versus the screen, we will read eight to ten works of modern Japanese literature and view the film versions of each in order to discuss the problem of translation from one medium to another. Possible works for inclusion are Rashomon, Harp of Burma, Woman in the Dunes, and The Makioka Sisters. Finally, we will consider manga (the graphic novel) and its adaptation into anime.

Fall COLT1410N S01 15530 W 3:00-5:20(14) (M. Viswanathan)

1410P Shakespeare
Pending Approval. We will read a number of Shakespeare's plays from The Comedy of Errors to The Winter's Tale in relation to the sources, analogues, and genres (classical, continental and English) on which he drew. We will consider both formal and historical questions. Issues to be addressed include genre, the Shakespearean text, gender, sexuality, status, degree, and nation. Some attention to what has come to be called "global" Shakespeare. Written work to include a mid-term and two papers.

Spr COLT1410P S01 25832 TTh 10:30-11:50(09)

1420 Studies in Narrative

1420U The South: Literatures of the U.S. South and South America
For Jorge Luis Borges, in his story of the same title, the South is a spectral region, hovering between imagination and reality. The literatures of the U.S. South and South America enact his notion of the spectral. We examine the remarkable similarities between the two literatures-similarities that result from literary influence and from social, cultural, and historical circumstances. Prerequisites: previous upper-level literature course(s), relevant to your studies at Brown. Instructor permission is required and will be given after second class. WRIT

Spr COLT1420U S01 25322 TTh 2:30-3:50(11) (S. Merrim)

1420X The European Novel From Goethe to Proust
Readings of major European novels of the 19th century as literary reflections on philosophical questions such as aesthetic and ethical judgment, subjectivity, mimesis, memory and the novel itself as a genre. Authors include Goethe, Stendhal, Balzac, Dickens, Flaubert and Proust. Selections from Kant, Hegel, Marx, Lukács and Benjamin.

Spr COLT1420X S01 25323 MWF 2:00-2:50(07) (K. McLaughlin)

1421I The Patronalistic Thriller and Other Studies in Colonial Fiction
The impact of colonialism on European fiction from the rise of empire to its decline and fall, focusing on authors who wrote from direct contact with the peoples of Africa and Asia, such as Rudyard Kipling, Joseph Conrad, T. E. Lawrence, E. M. Forster, and Isak Dinesen. Topics will include romantic images of conquest, imperial ideology in

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
Comparative Literature

Fall COLT1421I S01 15531 M 3:00-5:20(13) (M. Viswanathan)

1421J Blue or Red Pill? Reality and Narrative Realism
Explores the historical trajectory of reality from its origins in relation to urbanization and emerging consumer cultures in the nineteenth century to its contemporary flourishing across different media (literature, film, television) distinguishing itself by an extensive preoccupation with poverty, migration, crime and urban violence. We will explore 1) the political, economic, social and cultural conditions that make realism a still relevant and thriving representation mode; 2) the historical and geographical coordinates that shape our vision of "reality" as a shifting category whose construction depends on class, race, gender, and ethnicity.

Interested students must register for ENGL 1710G S01 (CRN 15419).

1421L "Terrible Beauty": Literature and the Terrorist Imaginary
Interested students must register for ENGL 1761T S01 (CRN 21227).

1421M Conrad and Naipaul: The Supremacy of the Visible?
Interested students must register for ENGL 1761T S01 (CRN 15996).

1421N Kafka's Writing
Interested students must register for GRMN 1340M S01 (CRN 15954).

1430 Studies in Poetry

1430D Critical Approaches to Chinese Poetry
Examination of works of Chinese poetry of several forms and periods in the context of Chinese poetic criticism. Knowledge of Chinese not required, but provisions for working with original texts will be made for students of Chinese language.

Fall COLT1430D S01 15532 MWF 10:00-10:50(03) (D. Levy)

1430H Poetry, Art, and Beauty
What does it mean to be beautiful in poetry and art? How is beauty defined from Plato to the blog? What is aesthetics in relation to beautiful practice? A workshop in the reading of lyric poetry and visual art from cave painting to modernism. The three written exercises on text, image, and aesthetics, with creative practice in translation. No final examination. Texts include Sappho, Plato, Aristotle, Catullus, Horace, Petrarch, Goethe, Kant, Wordsworth, Baudelaire, Rilke, Benjamin, Stevens, Derrida, and Danto. LILE

Interested students must register for LITR 1010F S01 (CRN 15712 for fall 2010; CRN 23832 for spring 2011).

1810 Studies in the Literature of Ideas

1810C City (B)Lights
Interdisciplinary explorations of the modern urban experience featuring social sciences, literature and film. Convergences and differences in the presentation of urban life in literature, film, the visual arts, urban planning, and social sciences. City populations, bureaucracy, power groups, alienation, urban crowds, the city as site of the surreal, are central themes. Against the background of classic European urban images, American cities and literary works are foregrounded.

Fall COLT1810C S01 15533 Th 4:00-6:20(13) (E. Ahearn)

1810H Tales of Two Cities: Havana - Miami, San Juan - New York
Compares representations of Havana and San Juan in contemporary literature to literary inscriptions of Cuban New York. Explores mapping the city as mapping identity, and city-writing as reconstruction and creation. Views cities through the eyes of children, tourists, and urban detectives; authors include Antonio José Ponte, Roberto G. Fernández, Mayra Santos Febres and Ernesto Quiñones. LiLE

Interested students must register for LITR 1010F S01 (CRN 15712 for fall 2010; CRN 23832 for spring 2011).
1812H “Women’s Literary Make-up”: Mirrors, Maquillage and the Tenth Muse
Focuses on the problem of creative inspiration for women writers and how the pursuit of aesthetic perfection, both somatic and literary as well as their interrelation, becomes a recurring motif in women’s writing from various traditions. Readings will include fiction and poetry from the English, Japanese, and Arab traditions, both modern and pre-modern. This is an undergraduate seminar open to juniors and seniors. Prerequisite: coursework in literature and at least one course in gender studies/women’s studies. Instructor permission required.

Spr COLT1812H S01 25333 TTh 6:30-7:50(12) (M. Viswanathan)

1812I Collective Struggles and Cultural Politics in the Global South
Traces the historical and ideological mapping of the North-South axis and the regional mythologies informed by racism, empire and nationalism. We will examine the ways in which imagined geographical hierarchies continue to shape cultural and political struggles and the vectors of globalization. Along with readings on imperial histories, liberal and neoliberal political economies, and postcolonialism this class seeks to establish connections between resistant narratives and collective struggles in the Global South. We will discuss political philosophies of Marx, Gramsci, Arendt, Fanon, Harvey and Schwarz, as well as the works of Achebe, Hurston, Kincaid, Rushdie, Roy, Sembene, and Wright.

Fall COLT1812I S01 15540 MWF 1:00-1:50(06) (I. Celik)

1812J Poetry and Ethics
If history is, as Charles Olson claims, a "form of attention" and we are all participants in a collective reality relative to our capacity for language use, what ethical issues come to bear on what the poet chooses to attend to—not only as subject matter but as form? Can poetic language be sufficiently responsive to the challenge of empathy? Is there an ethics of attention? Guided by philosophical texts, we shall investigate ethical possibilities in a range of world poetics. WRIT

Spr COLT1812J S01 25334 W 3:00-5:20(14) (S. Bernstein)

1812K European Intellectual and Cultural History: Exploring the Modern, 1880-1914 (HIST 1220)
Interested students must register for HIST 1220 S01 (CRN 15482).

1812L European Intellectual History: Exploding the Modern (HIST 1230)
Interested students must register for HIST 1230 S01 (CRN 25247).

1812M Erotic Desire in the Premodern Mediterranean (CLAS 1750L)
Interested students must register for CLAS 1750L S01 (CRN 25799).

1812N Culture and Anarchy (ENGL 1511I)
Interested students must register for ENGL 1511I S01 (CRN 15440).

1812O Lying, Cheating, and Stealing (ENGL 1760V)
Interested students must register for ENGL 1760V S01 (CRN 25175).

1970 Individual Independent Study
Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor’s permission required.

Fall; Spr

1990 Senior Thesis Preparation
Special work or preparation of honors theses under the supervision of a member of the staff. Open to honors students and to others. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor’s permission required.

Fall; Spr

Comparative Literature / 67

2520 Seminar in Forms and Genres
2520F Theories of the Lyric
Through readings of recent critical discussions of the lyric genre, we will explore more general methodological problems of literary theory. Questions to be raised include: the role of form, structure and tropes in analyzing poetry; problems of subjectivity and voice; the relation between poetry, history and politics; the function of reading; and the problematic “objectivity” of criticism. Readings from Jakobson, Benveniste, Jauss, Johnson, De Man, Lacoue-Labarthe, Agamben and Badiou. Focus on poets Baudelaire, Shelley, Yeats, Hölderlin, Celan.

Fall COLT2520F S01 15541 M 3:00-5:20(13) (S. Bernstein)

2540C Romanticism and Cultural Property (ENGL 2560Y)
Interested students must register for ENGL 2560Y S01 (CRN 15849).

2540D After Postmodernism: New Fictional Modes (ENGL 2760X)
Interested students must register for ENGL 2760X S01 (CRN 25846).

2540E Political Romanticism (GRMN 2320E)
Interested students must register for GRMN 2320E S01 (CRN 25796).

2720 Theory and Practice of Literary Translation
2720C Literary Translation
Study and practice of translation as art and a potent form of literary criticism. Translation is an act of interpretation, which informs the language of the translator and the text as a whole: context, intent, and language. Discussion will include the impact of cultural difference, tone and time on translation, and the role of analytical as well as intuitive understanding of the original in the translator's endeavor.

Spr COLT2720C S01 25336 TTh 2:30-3:50(11) (D. Levy)

2820 Special Topics in Comparative Literature
2820U Literature and Judgment
Investigates the intersections between acts of literature and acts of judgment, between language and the law. How is literature to be judged, when is it “good” or “bad”? Does it hide a crime? And, in turn: does literature provide its own particular kind of judgment, one that may make evident the very fictional status of the law? Readings span from the Bible to contemporary post-colonial readings (Rousseau, Tolstoy, Zola, Freud, Kafka, Arendt, Benjamin, Henry James, Primo Levi, Coetzee, Sadegh Hedaya).

Spr COLT2820U S01 25338 M 3:00-5:20(13) (S. Stewart-Steinberg)

2820V Nietzsche, Foucault, Latour (ENGL 2900K)
Interested students must register for ENGL 2900K S01 (CRN 15446).

2830 Special Problems in Comparative Literature
2830H Cultural Translation: Theory and Practice
Across a range of disciplines, "cultural translation" today stands for the dynamic interactions among cultures. Derived from cultural anthropology and linguistic translation, the metaphor of translation (already a metaphor: trans+latere, to bear across) is used increasingly to analyze how cultures are transmitted through the operations of colonial expansion, diaspora and immigration. Though cultural globalization is assumed to be a 20th century phenomenon, the result of an expansion and acceleration in the movement and exchange of ideas, commodities and capital, this seminar considers a longer historical frame for understanding cultural competition. Theoretical texts including Schleiermacher, Jakobson, Benjamin, Derrida, Spivak, and a "case study," Shakespeare.

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2980 Reading and Research
Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor's permission required.
Fall; Spr

2990 Thesis Preparation
For graduate students who have met the tuition requirement and are paying the Registration Fee to continue active enrollment while preparing a thesis.
Fall COLT2990 S01 11047 'To Be Arranged'
Spr COLT2990 S01 20777 'To Be Arranged'

Computer Science
(Primarily for Undergraduates)

0020 Concepts and Challenges of Computer Science
Removes the mystery surrounding computers and the digital world. Introduces a range of topics including the Internet and Multimedia, along with the underlying digital technology and its relevance to our society. Other topics include artificial intelligence, IT security, the economics of computing and its pervasiveness in today's world. Analytic skills are developed through HTML and Python assignments. No prerequisites. Enrollment limited to 300. LILE
Fall CSCI0020 S01 10487 TTh 9:00-10:20(08) (D. Stanford)

0040 Introduction to Scientific Computing and Problem Solving
An introduction to computer programming and software design in a high-level language. Emphasizes fundamental techniques and strategies for solving scientific problems with computers. Illustrates abstract concepts with a wide range of exemplary applications from engineering, the sciences, and the humanities. Intended for students who want a single application-oriented programming course. This course is not intended for computer science concentrators. No prerequisites.
Spr CSCI0040 S01 20370 TTh 2:30-3:50(11) (N. Triandopoulos)

0150 Introduction to Object-Oriented Programming and Computer Science
Emphasizes object-oriented design and programming in Java, an effective modern technique for producing modular, reusable, internet-aware programs. Also introduces interactive computer graphics, user interface design and some fundamental data structures and algorithms. A sequence of successively more complex graphics programs, including Tetris, helps provide a serious introduction to the field intended for both potential concentrators and those who may take only a single course. No prerequisites.
Fall CSCI0150 S01 10488 TTh 2:30-3:50(11) (A. van Dam)

0160 Introduction to Algorithms and Data Structures
Introduces fundamental techniques for problem solving by computer that are relevant to most areas of computer science, both theoretical and applied. Algorithms and data structures for sorting, searching, graph problems, and geometric problems are covered. Programming assignments conform with the object-oriented methodology introduced in CSCI 0150. Prerequisite: CSCI 0150 or written permission.
Spr CSCI0160 S01 20371 TTh 10:30-11:50(09) (D. Laidlaw)

0170 Computer Science: An Integrated Introduction
CSCI0170/0180 is an introductory sequence that helps students begin to develop the skills, knowledge, and confidence to solve computational problems elegantly, correctly, efficiently, and with ease. The sequence is unique in teaching both the functional and imperative programming paradigms—the first through the languages Scheme and ML in CSCI0170; the second through Java in CSCI0180. The sequence requires no previous programming experience. Indeed, few high school students are exposed to functional programming; hence even students with previous programming experience often find this sequence an invaluable part of their education.
Although students are taught to use programming languages as tools, the goal of CSCI0170/0180 is not merely to teach programming. On the contrary, the goal is to convey to students that computer science is much more than programming! All of the following fundamental computer science techniques are integrated into the course material: algorithms, data structures, analysis, problem solving, abstract reasoning, and collaboration. Concrete examples are drawn from different subareas of computer science: in 0170, from arbitrary-precision arithmetic, natural language processing, databases, and strategic games; in 0180, from discrete-event simulation, data compression, and client/server architectures.
Fall CSCI0170 S01 10489 MWF 11:00-11:50(04) (C. Kenyon)
Spr CSCI0180 S01 20372 MWF 11:00-11:50(04) (U. Cetintemel)

0180 Computer Science: An Integrated Introduction
A continuation of CSCI 0170. Students learn to program in Java while continuing to develop their algorithmic and analytic skills. Emphasis is placed on object-oriented design of programs and the implementation and use of data structures. Examples are drawn from such areas as databases, strategy games, web client/server programming, graphical user interfaces, sorting, and data compression. Lab work done with the assistance of TAs. Prerequisite: CSCI 0170.
Spr CSCI0180 S01 20372 MWF 11:00-11:50(04) (U. Cetintemel)

0190 Programming with Data Structures and Algorithms
This course is a one-semester introduction to computer science for students with strong prior computer science background. It covers core data structures, algorithms, and analysis techniques similar to those of the two-course introductory sequences (CSCI 0150-0160 and CSCI 0170-0180), integrated with programming. Prerequisite: score of 5 on the CS AP AB exam, equivalent knowledge of Java and data structures, or permission of the instructor.
Fall CSCI0190 S01 10503 MWF 11:00-11:50(04) (S. Krishnamurthi)

0220 Introduction to Discrete Structures and Probability
Seeks to place on solid foundations the most common structures of computer science, to illustrate proof techniques, to provide the background for an introductory course in computational theory, and to introduce basic concepts of probability theory. Introduces Boolean algebra, logic, set theory, elements of algebraic structures, graph theory, combinatorics, and probability. No prerequisites.
Spr CSCI0220 S01 20373 TTh 1:00-2:20(10) (B. Raphael)

0310 Introduction to Computer Systems
Basic principles of computer organization. Begins with machine representation of data types and logic design, then explores architecture and operations of computer systems, including I/O, pipelining, and memory hierarchies. Uses assembly language as an intermediate abstraction to study introductory operating system and compiler concepts. Prerequisite: CSCI 0150 or CSCI 0180 or CSCI 0190.
Fall CSCI0310 S01 10490 MWF 2:00-2:50(07) (P. van Hentenryck)

0320 Introduction to Software Engineering
Advanced programming techniques including Java, threads, web-applications, user interfaces and XML. Covers software design including object-oriented design, systems design, web application design and user interface design. Software engineering including modeling, analysis, testing, debugger reuse, the software lifecycle, tools and project management. Prerequisite: CSCI 0160, CSCI 0180 or CSCI 0190. CSCI 0220 is recommended.
0510 Models of Computation
The course introduces basic models of computation including languages, finite-state automata and Turing machines. Proves fundamental limits on computation (incomputability, the halting problem). Provides the tools to compare the hardness of computational problems (reductions). Introduces computational complexity classes (P, NP, PSPACE and others). Prerequisite: CSCI 0220.

Fall CSCI0510 S01 10491 MWF 1:00-1:50(06) (J. Savage)

0530 Directions: The Matrix in Computer Science
The aim of this course is to provide students interested in computer science an introduction to vectors and matrices and their use in modeling and data analysis. Students will study (1) concepts and proofs in linear algebra, (2) data-analysis techniques such as principal component analysis, latent semantic indexing, and linear regression, and (3) applications of these techniques to computer science. Example applications: transformation of shapes, detecting faces in images, error-correcting codes, factoring integers, categorizing new stories, and Google’s method for ranking web pages. This course satisfies the linear algebra requirement for the Computer Science Sc.B. Prerequisites: No formal prerequisites, but students are expected to be comfortable with mathematics and with computing.

Fall CSCI0530 S01 13558 TTh 1:00-2:20(10) (P. Klein)

0931 Introduction to Computation for the Humanities and Social Sciences
Introduces students to the use of computation for solving problems in the social sciences and the humanities. We will investigate a series of real-world problems taken from the news, from books such as Freakonomics, and from current research. Topics covered include data gathering, data analysis, web-based interfaces, security, algorithms, and scripting. Enrollment limited to 20. LILE

Fall CSCI0931 S01 14513 TTh 10:30-11:50(09) (S. Reiss)

(For Undergraduates and Graduates)

1230 Introduction to Computer Graphics
Fundamental concepts in 2D and 3D computer graphics, e.g., 2D raster graphics techniques, simple image processing, and user interface design. Focuses on geometric transformations, and 3D modeling, viewing and rendering. Prerequisite: CSCI 0160, CSCI 0180 or CSCI 0190, CSCI 0320 or CSCI 0360 is strongly recommended. Students who don't know C++ should take the minicourse offered during the first week of the semester. CSCI 0530 or MATH 0520 is helpful.

Fall CSCI1230 S01 10492 TTh 10:30-11:50(09) (A. van Dam)

1250 Introduction to Computer Animation
Introduction to 3D computer animation production including story writing, production planning, modeling, shading, animation, lighting, and compositing. Students work independently to learn basic skills, then in groups to create a polished short animation. Emphasis is on in-class critique of ongoing work, which is essential for learning the cycle of evaluating work, determining improvements, and implementing them for further evaluation. Students should attend first class to receive instructor's written permission. Enrollment limited to 20.

Fall CSCI1250 S01 10493 MW 1:00-2:50(06) (B. Meier)

1270 Database Management Systems
Introduction to database structure, organization, languages, and implementation. Relational and object-relational models. Query languages, query processing, query optimization, normalization, file structures, concurrency control and recovery algorithms, and distributed databases. Coverage of modern applications such as the Web, but with emphasis on Database Management Systems internals. Recommended: CSCI 0220 and 0310.

Fall CSCI1270 S01 10494 M 3:00-5:20(13) (S. Zdonik)

1280 Intermediate 3D Computer Animation
Continues work begun in CSCI 1250 with deeper exploration of technical and artistic aspects of 3D computer animation including more sophisticated shading and lighting methods and character modeling, rigging, and animation. After a series of individual exercises, students pursue an independent topic and then, working alone or in pairs, create a polished demonstration. Emphasis is on in-class critique of ongoing work. Prerequisite: CSCI 1250. Students may contact the instructor in December for permission. Enrollment limited to 20.

Spr CSCI1280 S01 24427 MW 1:00-2:50(06) (B. Meier)

1290 Computational Photography
Pending Approval. Describes the convergence of computer graphics and computer vision with photography. Its goal is to overcome the limitations of traditional photography using computational techniques to enhance the way we capture, manipulate, and interact with visual media. Topics covered: cameras, human visual perception, image processing and manipulation, image based lighting and rendering, high dynamic range, single view reconstruction, photo quality assessment, non-photorealistic rendering, the use of Internet-scale data, and more. Students are encouraged to capture and process their own data. Prerequisites: previous programming experience, basic linear algebra, calculus, and probability; previous knowledge of computer graphics or computer vision.

Spr CSCI1290 S01 25854 MW 11:00-11:50(04) (J. Hays)

1320 Creating Modern Web Applications
Pending Approval. Covers all aspects of web application development, including the initial concept, user-centric design, development methodologies, front end development, databases, back end development, security, testing, load testing, accessibility, and deployment. There will be a substantial team project. The course is open to all students but a background in either programming, design, or HTML and Javascript development will be helpful.

Spr CSCI1320 S01 25856 MW 10:00-10:50(03) (S. Reiss)

1380 Distributed Computer Systems
Explores the fundamental principles and practice underlying networked information systems, first we cover basic distributed computing mechanisms (e.g., naming, replication, security, etc.) and enabling middleware technologies. We then discuss how these mechanisms and technologies fit together to realize distributed databases and file systems, web-based and mobile information systems. Prerequisite: CSCI 0320 or 0360.

Spr CSCI1380 S01 23195 TTh 2:30-3:50(11) (T. Doepner)

1430 Introduction to Computer Vision
How can we program computers to understand the visual world? This course treats vision as inference from noisy and uncertain data and emphasizes probabilistic and statistical approaches. Topics may include perception of 3D scene structure from stereo, motion, and shading; segmentation and grouping; texture analysis; learning, object recognition; tracking and motion estimation. Strongly recommended: basic linear algebra, calculus, and probability.

Spr CSCI1430 S01 25886 MW 2:00-2:50(07) (M. Black)

1460 Introduction to Computational Linguistics
Introduction to computational linguistics (also known as natural-language processing) including the related mathematics and several programming projects. Particular topics include: language modeling (as used in e.g., speech recognition, machine translation), machine

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translation, part-of-speech labeling, syntactic parsing, and pronouns resolution. Mathematical techniques include basic probability, noisy channel models, the EM (Expectation-Maximization) algorithm, hidden Markov models, probabilistic context-free grammars, and the forward-backward algorithm. Prerequisite: CSCI 1410 or instructor permission, which will be given to all students with a solid background in programming and either basic probability, or enough mathematical background to quickly absorb the latter. Not open to first year students.

Spr CSCI1460 S01 24920 MWF 1:00-1:50(06) (E. Chamiak)

1480 Building Intelligent Robots
How do robots function autonomously in dynamic, unpredictable environments? This course focuses on programming mobile robots, such as the iRobot Roomba, to perceive and act autonomously in real-world environments. The major paradigms for autonomous control and robot perception are examined and compared with robotic notions in science fiction. Prerequisite: CSCI 0150, CSCI 0170 or CSCI 0190. Recommended: CSCI 1410 or CSCI 1230.

Fall CSCI1480 S01 14281 MWF 1:00-1:50(06) (O. Jenkins)

1490 Introduction to Combinatorial Optimization
This course covers the algorithmic aspects of optimizing decisions in fully observable, non-changing environments. Students are introduced to state-of-the-art optimization methods such as linear programming, integer programming, local search, and constraint programming. Strongly recommended: CSCI 0160, CSCI 0180 or CSCI 0190; CSCI 0510; and CSCI 0530 or MATH 0520 or MATH 0540.

Fall CSCI1490 S01 15999 TTh 10:30-11:50(09) (M. Sellmann)

1510 Introduction to Cryptography and Computer Security
This course studies the tools for guaranteeing safe communication and computation in an adversarial setting. We develop notions of security and provably secure constructions for such cryptographic objects as cryptosystems, signature schemes and pseudorandom generators. We also review the principles for secure system design. Prerequisites: CSCI 0220 and CSCI 0510.

Fall CSCI1510 S01 15860 TTh 2:30-3:50(11) (A. Lysyanskaya)

1550 Probabilistic Methods in Computer Science
Introduction to probability theory in computer science, in particular randomized algorithms and probabilistic analysis of algorithms. Introduces basic probability theory and presents applications of randomized and probabilistic analysis techniques in areas such as combinatorial optimization, data structures, communication, and parallel computation. Assumes no prior knowledge of probability theory. Prerequisite: CSCI 0220 or equivalent. CSCI 1570 recommended but not required.

Fall CSCI1550 S01 13106 TTh 1:00-2:20(10) (E. Upfal)

1580 Information Retrieval and Web Search
Covers traditional material as well as recent advances in information retrieval (IR), the study of indexing, processing, and querying of textual data. The focus will be on newer techniques geared to hypertext documents available on the World Wide Web. Topics include efficient text indexing; Boolean and vector space retrieval models; evaluation and interface issues; Web crawling, link-based algorithms, and Web metadata; text/Web clustering, classification; text mining.

Spr CSCI1580 S01 24425 TTh 1:00-2:20(10) (E. Upfal)

1600 Introduction to Embedded and Real-Time Software
Comprehensive introduction to the design and implementation of software for programmable embedded computing systems, those enclosed in devices such as cellular phones, game consoles, and car engines. Includes the overall embedded real-time software design and development processes, as well as aspects of embedded hardware and real-time, small-footprint operating systems. Major project component. Prerequisites: CSCI 0320 or 0360. Enrollment limited to 30.

Spr CSCI1600 S01 25692 MWF 1:00-1:50(06) (S. Reiss)

1660 Introduction to Computer Systems Security
This course teaches principles of computer security from an applied viewpoint and provides hands-on experience on security threats and countermeasures. Topics include code execution vulnerabilities (buffer overflow, sandboxing, mobile code), malware (trodans, viruses, and worms), access control (users, roles, policies), cryptosystems (hashing, signatures, certificates), network security (firewalls, TLS, intrusion detection, VPN), and human and social issues. Prerequisites: CSCI 0160, CSCI 0180 or CSCI 0190.

Spr CSCI1660 S01 20376 MW 2:00-3:30(07) (R. Tamassia)

1670 Operating Systems
The basic principles of operating systems. Part I: fundamental concepts including: multithreaded programming and concurrency, dynamic storage allocation and liberation, linkers and loaders, file systems, and virtual memory. Covers actual systems including Solaris, Linux, and Windows. Part II: operating-system support for distributed systems, including computer communication protocols, remote procedure call protocols, computer security, and distributed file systems. Prerequisite: CSCI 0320 or CSCI 0360.

Fall CSCI1670 S01 10497 MWF 2:00-2:50(07) (T. Doepnner)

1680 Computer Networks
Covers the technologies supporting the Internet, from Ethernet and WiFi through the routing protocols that govern the flow of traffic and the web technologies that are generating most of it. A major concern is understanding the protocols used on the Internet: what the issues are, how they work, their shortcomings, and what improvements are on the horizon. Prerequisite: CSCI 0320, CSCI 0360, or consent of instructor.

Spr CSCI1680 S01 23502 TTh 10:30-11:50(09) (R. Fonseca)

1690 Operating Systems Laboratory
Half-credit course intended to be taken with CSCI 1670. Students individually write a simple operating system in C. Serves to reinforce the concepts learned in 1670 and provides valuable experience in systems programming. Corequisite: CSCI 1670.

Fall CSCI1690 S01 10498 T 8:00-9:50 PM(18) (T. Doepnner)

1730 Introduction to Programming Languages
Explores the principles of modern programming languages by implementation. Examines linguistic features, especially control operators such as first-class functions, exceptions, and continuations. Studies data and their types, including polymorphism, type inference, and type soundness. Examines compiler and run-time system topics: continuation-passing style and garbage collection. Prerequisite: CSCI 0160, CSCI 0180 or CSCI 0190. Preferred: CSCI 0220, CSCI 0310 and CSCI 0510, or instructor’s permission.

Fall CSCI1730 S01 15862 MW 10:00-10:50(03) (S. Krishnamurthi)

1810 Computational Molecular Biology
Processing molecular biology data (DNA, RNA, proteins) has become central to biological research and a challenge for science research. Important objectives are molecular sequence analysis, recognition of genes and regulatory elements, molecular evolution, protein structure, comparative genomics. This course models the underlying biology in the terms of computer science and presents the most significant algorithms of molecular computational biology. Prerequisites: CSCI 0160, CSCI 0180 or CSCI 0190, and CSCI 0220, or consent of instructor.

Fall CSCI1810 S01 10500 TTh 1:00-2:20(10) (F. Preparata)
1950 Special Topics in Computer Science
First-semester course in various branches of computer science. Specific topics to be determined at the beginning of each semester.

1950C Advanced Programming for Digital Art & Literature
This workshop will explore advanced tools and techniques for the creation of innovative and expressive works of digital art. Lectures will address the application of best practices from the software design community to the context of artistic practice. In the first section of the course, students will exercise their aesthetic, conceptual, and technical skills on a set of ‘mini-projects’ exploring the analysis, generation and presentation of computationally-augmented literary texts. Assignments will include web-text mining, feature extraction, grammars, generative algorithms, and statistical techniques. During the second half of the course, students will focus on a larger work of their own design, participating in regular critiques throughout the development cycle. Though assignments will focus on digital literature, a wide range of artistic media will be explored, including sound, image, video, 3D and installation. Collaboration is encouraged. Permission of the instructor required. Enrollment limited to 18.

Spr CSCI1950C S01 24723 M 7:00-9:20 PM(18) (D. Howe)

1950F Introduction to Machine Learning
How can artificial systems learn from examples, and discover information buried in massive datasets? This course explores the theory and practice of statistical machine learning. Topics include parameter estimation, probabilistic graphical models, approximate inference, and kernal and nonparametric methods. Applications to regression, categorization, and clustering problems are illustrated by examples from vision, language, communications, and bioinformatics. Prerequisites: CSCI 0160, 0180, or 0190, and comfort with basic probability, linear algebra, and calculus.

Spr CSCI1950F S01 25696 TTh 1:00-2:20(10) (E. Sudderth)

1950H Computational Topology
We will study various algorithmic problems that arise in the study of topological phenomena, such as winding number, turning number, knot polynomials, topology of covering spaces (especially Riemann surfaces), and discrete Morse theory. The mathematical topics will be briefly introduced before we move to computations, but some a priori mathematical sophistication will make the course more valuable to the student. Prerequisite: CSCI 0160, 0180, or 0190.

Spr CSCI1950H S01 25857 TTh 10:30-11:50(09) (J. Hughes)

1950J Introduction to Computational Geometry
Geometric algorithms in two and three dimensions. Algorithmic and geometric fundamentals. Point location, convex hulls, proximity (Voronoi diagrams, Delaunay triangulations), intersections, the geometry of rectangles. Prerequisites: CSCI 0160, 0170, or 0190; and CSCI 0220.

Spr CSCI1950J S01 25858 TTh 10:30-11:50(09) (F. Preparata)

1950L Algorithmic Foundations of Computational Biology
The course is devoted to computational and statistical methods as well as software tools for DNA, RNA, and protein sequence analysis. The focus is on understanding the algorithmic and mathematical foundations of the methods, the design of associated genomics software tools, as well as on their applications. Topics include: sequence alignment, genome assembly, gene prediction, regulatory genomics, and SNP’s variation. The course is open to computer and mathematical sciences students as well as biological and medical students.

Spr CSCI1950L S01 20378 TTh 2:30-3:50(11) (S. Istrail)

1970 Individual Independent Study
Independent study in various branches of Computer Science. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Fall, Spr

(Primarily for Graduates)

2240 Interactive Computer Graphics
Important current topics in computer graphics. Course includes reading and discussing current research papers, multiple assignments and preliminary projects in which students implement recent papers, and a demanding final integrative project done in small groups. Prerequisite: CSCI 0320 or CSCI 0360, and CSCI 1230.

Spr CSCI2240 S01 20379 TTh 1:00-2:20(10) (J. Hughes)

2270 Topics in Database Management
In-depth treatment of advanced issues in database management systems. Topics vary from year to year and may include distributed databases, mobile data management, data stream processing and web-based data management. Prerequisite: CSCI 1270.

Spr CSCI2270 S01 25703 M 3:00-5:20(13) (S. Zdonik)

2330 Programming Environments
Programming tools; control and data integration; software understanding and debugging; environments for parallel and distributed programming; reverse engineering; configuration management and version control and debugging. Emphasis on current research areas. Prerequisite: consent of instructor.

Fall CSCI2330 S01 16036 MWF 1:00-1:50(06) (S. Reiss)

2370 Interdisciplinary Scientific Visualization
The solution of scientific problems using computer graphics and visualization. Working in small multidisciplinary groups, students identify scientific problems, propose solutions involving computational modeling and visualization, design and implement the solutions, apply them to the problems, and evaluate their success. Examples include interactive software systems, immersive CAVE applications, or new applications of existing visualization methods. Prerequisites: all: programming experience; CS students: graphics experience; others: problem ideas. Instructor permission required.

Fall CSCI2370 S01 16000 TTh 1:00-2:20(10) (D. Laidlaw)

2510 Approximation Algorithms
Approximation Algorithms deal with NP-hard combinatorial optimization problems by efficiently constructing a suboptimal solution with some specified quality guarantees. We study techniques such as linear programming and semidefinite programming relaxations, and apply them to problems such as facility location, scheduling, bin packing, maximum satisfiability or vertex cover. Prerequisite: CSCI 1490 or 1570.

Spr CSCI2510 S01 25859 MWF 11:00-11:50(04) (C. Kenyon)

2570 Introduction to Nanocomputing
Nanoscale technologies employing materials whose smallest dimension is on the order of a few nanometers are expected to replace lithography in the design of chips. We give an introduction to computational nanotechnologies and explore problems presented by their stochastic nature. Nanotechnologies based on the use of DNA and semiconducting materials will be explored. Prerequisite: CSCI 0510.

Spr CSCI2570 S01 25855 MWF 10:00-10:50(03) (J. Savage)

2590 Advanced Topics in Cryptology
Seminar-style course on advanced topics in cryptography. Example topics are zero-knowledge proofs, multi-party computation, extractors in cryptography, universal composability, anonymous credentials and
2950U Special Topics on Networking and Distributed Systems
Explores current research topics in networking, distributed and operating systems. Specific topics may include wireless and sensor networking, Internet-scale distributed systems, cloud computing, as well as the core problems, concepts, and techniques underlying these systems. The course has two components: reading and discussion of current and classical research papers, and a research project related to the topic but ideally drawn from students' own research interests. This is a graduate-level course, undergrads can join with the consent of the instructor.

Fall CSCI2950U S01 14514 TTh 1:00-2:20(10) (R. Fonseca)

2951A Robots for Education
This seminar will explore the potential for robotics to engage future generations of scientists and engineers, with a particular focus on broadening participation in computing across society. Academic papers describing existing models, systems, courses, and evaluation for teaching robotics at undergraduate and secondary levels will be covered through students presentations. A group project will be conducted to find viable and accessible "off-the-shelf" technology solutions suited to teaching robotics without requiring a technical background. Instructor permission required. Instructor's permission required.

Spr CSCI2951A S01 25861 M 3:00-5:20(13) (O. Jenkins)

2951B Data-Driven Vision and Graphics
Investigates current research topics in image-based graphics and vision. We will examine data sources, features, and algorithms useful for understanding and manipulating visual data. We will pay special attention to methods that harness large-scale or Internet-derived data. Vision topics such as scene understanding and object detection will be linked to graphics applications such as photo editing and image-based rendering. These topics will be pursued through independent reading, class discussion and presentations, and state-of-the-art projects. Strong mathematical skills and previous imaging (vision or computational photography) courses are essential. Instructor permission required. Instructor’s permission required.

Fall CSCI2951B S01 16001 MW 10:00-10:50(03) (J. Hays)

2980 Reading and Research
Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course.
Fall, Spr

2990 Thesis Preparation
For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing a thesis.

Fall CSCI2990 S01 13227 ‘To Be Arranged’
Spr CSCI2990 S01 22598 ‘To Be Arranged’

Spring XLIST Courses of Interest to Concentrators in Computer Science
The following courses may be of interest to students concentrating in Computer Science. Please check with the sponsoring department for times and locations.

Engineering
ENGN 2911I 3D Photography and Geometry Processing
Czech see Slavic Languages

Development Studies
(For Undergraduates and Graduates)
1000 Seminar in Development Studies
Provides an interdisciplinary introduction to Development Studies. Students will read classic and contemporary texts that present development issues and theories from the perspectives of anthropology, economics, history, political science, and sociology. Efforts to connect theoretical debates to understanding contemporary problems will be encouraged. Reserved for sophomore and junior Development Studies concentrators. Instructor’s permission required. Enrollment Limited to 20.

Spr DEVL1000 S01 20382 M 3:00-5:20(13)

1500 Methods in Development Research
An introduction to the various techniques of research in Development Studies, with a focus on qualitative and field methods. Open to Juniors in Development Studies. Prerequisite: DEVL 1000. Enrollment Limited to 20.

Spr DEVL1500 S01 23610 T 4:00-6:20(16) (C. Ban)

1980 Thesis Writing in Development Studies
An integrative seminar designed for concentrators working on senior theses. Others with comparable backgrounds may enroll with written permission. Begins with a review of theoretical and methodological literature on development studies. Written and oral presentations of thesis research will be the central focus of the latter part of the course.

Fall DEVL1980 S01 10505 T 4:00-6:20(13) (C. Ban)
Fall DEVL1980 S02 14366 W 3:00-5:20(14) (C. Ban)

1990 Senior Thesis Preparation
Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Reserved for Development Studies seniors. Instructor’s permission required.

Fall; Spr

(Primarily for Graduates)

2000 Theory and Research in Development I
Explores a range of substantive debates in development by drawing on empirical and theoretical work from the disciplines of economics, political science, sociology and anthropology. The course aims to provide students with a broad understanding of current debates and research on development, evaluate both the differences and complementarities in disciplinary perspectives and develop a toolkit of interdisciplinary analytic skills that can be applied to concrete research questions. Instructor’s permission required.

Fall DEVL2000 S01 10507 W 9:00-11:50(02) (P. Heller)

2010 Theory and Research in Development II
Explores a range of substantive debates in development by drawing on empirical and theoretical work from the disciplines of economics, political science, sociology and anthropology. The course aims to provide students with a broad understanding of current debates and research on development, evaluate both the differences and complementarities in disciplinary perspectives and develop a toolkit of interdisciplinary analytic skills that can be applied to concrete research questions. Instructor’s permission required.

Spr DEVL2010 S01 20384 Th 10:00-12:20(09) (R. Snyder)

2990 Thesis Preparation
For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing a thesis.

Fall DEVL2990 S01 10508 ‘To Be Arranged’
Spr DEVL2990 S01 20385 ‘To Be Arranged’

Fall XLIST Courses of Interest to Concentrators in Development Studies
The following courses may be of interest to Development Studies concentrators. Please see the sponsoring department for the time and location of each course.

Africana Studies
AFRI 0210 Blacks in Latin American History and Society
AFRI 1210 Afro-Brazilians and the Brazilian Polity

Anthropology
ANTH 0300 Culture and Health
ANTH 1110 Africa in Anthropological Perspective
ANTH 1130 Peoples and Cultures of Southeast Asia
ANTH 1233 Ethnographies of Global Connection

BioMed Community Health
PHP 1070 The Burden of Disease in Developing Countries

East Asian Studies
EAST 1070 China Modern: An Introduction to the Literature of 20th Century China

Economics
ECON 0510 Development and the International Economy
ECON 1110 Intermediate Microeconomics
ECON 1210 Intermediate Macroeconomics
ECON 1510 Economic Development
ECON 1560 Economic Growth
ECON 1600 Economics of the Middle East
ECON 1850 Theory of Economic Growth

Education
EDUC 1110 Introductory Statistics for Education Research and Policy Analysis

Engineering
ENGN 1930F Entrepreneurship and Good Work: Engineering Dreams
ENGN 1930Q Social Entrepreneurship

English
ENGL 0610E Postcolonial Literature

Environmental Studies
ENVS 0510 Problems in International Environmental Policy
ENVS 1530 From Locke to Deep Ecology: Property Rights and Environmental Policy

History
HIST 1580 History of Modern Asia I
HIST 1670 History of Brazil
HIST1971P Identity Conflicts in Mid East History, 1900-Present
HIST 1972 Word of Mouth Oral History

International Relations
INTL 1800R Post-Soviet States from the Past into the Future

Political Science
POLS 1821C Economic Freedom & Social Justice

Sociology
SOC 0150 Economic Development and Social Change
SOC 1100 Introductory Statistics for Social Research
SOC 1620 Globalization and Social Conflict

Spring XLIST Courses of Interest to Concentrators in Development Studies
The following courses may be of interest to Development Studies concentrators. Please see the sponsoring department for the time and location of each course.

Africana Studies
AFRI 1360 Africana Studies, Texts, Methodologies

Anthropology
ANTH 0100 Cultural Anthropology: Understanding Human Societies
ANTH 1110 African Issues in Anthropological Perspective
ANTH 1232 War and Society
ANTH 1233 Ethnographies of Global Connection
ANTH 1940 Ethnographic Research Methods

BioMed Community Health
PHP 1100 Comparative Health Care Systems

Economics
ECON 1110 Intermediate Microeconomics
ECON 1210 Intermediate Macroeconomics

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
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<tbody>
<tr>
<td>ECON 1310</td>
<td>Labor Economics</td>
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<td>ECON 1430</td>
<td>Population Economics</td>
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<td>ECON 1520</td>
<td>The Economic Analysis of Institutions</td>
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<td>ECON 1530</td>
<td>Health, Hunger and Households in Developing</td>
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<td>ECON 1620</td>
<td>Introduction to Econometrics</td>
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<td>EDUC</td>
<td>EDUC 1100 Introduction to Qualitative Research</td>
<td>Methods</td>
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<td>ENVS 1920 Analysis and Resolution of Environmental Problems</td>
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<tr>
<td>HIST</td>
<td>HIST 1450 History of the Modern Middle East</td>
<td>1800-1918</td>
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<td>HIST 1590 History of Modern South Asia II</td>
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<td>JUDS</td>
<td>JUDS 0980W The Israeli-Palestinian Conflict</td>
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<td>LAST 1510C Democracy and the (Un)Rule of Law in Latin America: Two Decades after Transitions</td>
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<tr>
<td>POLS</td>
<td>POLS 1210 Latin American Politics</td>
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<td>POLS 1240 Politics, Markets, and States in Developing Countries</td>
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<td>POLS 1280 Politics, Economy and Society in India</td>
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<td>POLS 1450 Political Economy of Development</td>
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<td>POLS 1821X The Politics of Social Welfare in the Middle East</td>
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<td>POLS 2190 Welfare States in Old and New Democracies</td>
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<td>RELS</td>
<td>RELS 0280D Women, Sex and Gender in Islam</td>
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<td>SOC</td>
<td>SOC 0150 Economic Development and Social Change</td>
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<td>SOC</td>
<td>SOC 1010 Sociological Theory</td>
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<td>SOC</td>
<td>SOC 1100 Introductory Statistics for Social Research</td>
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<td>URBAN</td>
<td>URBAN 1420 Urbanization in China</td>
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<td>Early Cultures</td>
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<td>(Primarily for Undergraduates)</td>
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<td>0300  Babylon: Myth and Reality (AWAS 0300)</td>
<td>Interested students must register for AWAS 0300 S01 (CRN 15642).</td>
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<td>0530  Judaism, Christianity, and the Bible (JUDS 0530)</td>
<td>Interested students must register for JUDS 0530 S01 (CRN 15667).</td>
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<td>0990  Concepts of the Self in Classical Indian Literature (CLAS 0990)</td>
<td>Interested students must register for CLAS 0990 S01 (CRN 25305).</td>
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<td>(For Undergraduates and Graduates)</td>
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<td>1120G  The Idea of Self (CLAS 1120G)</td>
<td>Interested students must register for CLAS 1120G S01 (CRN 15507).</td>
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<td>1410  Ancient Egyptian Literature (EGYT 1410)</td>
<td>Interested students must register for EGYT 1410 S01 (CRN 25440).</td>
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<td>1420  Ancient Egyptian Religion and Magic (EGYT 1420)</td>
<td>Interested students must register for EGYT 1420 S01 (CRN 25443).</td>
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<td>1500  Ancient Babylonian Magic and Medicine (AWAS 1500)</td>
<td>Interested students must register for AWAS 1500 S01 (CRN 25464).</td>
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<td>1700  Astronomy, Divination and Politics in the Ancient World (AWAS 1700)</td>
<td>Interested students must register for AWAS 1700 S01 (CRN 25458).</td>
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<td>1750K Madwomen and Lovers (CLAS 1750K)</td>
<td>Interested students must register for CLAS 1750K S01 (CRN 15509).</td>
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<td>1970  Individual Study Project</td>
<td>Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor’s permission required. Fall; Spr</td>
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<td>1990  Thesis Preparation</td>
<td>Required of seniors in the honors program. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor’s permission required. Fall; Spr</td>
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<td>(Primarily for Undergraduates)</td>
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<td></td>
<td>2110F  Greek Palaeography and Premodern Book Cultures (GREK 2110F)</td>
<td>Interested students must register for GREK 2110F S01 (CRN 25309).</td>
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<td>East Asian Studies</td>
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<td>Chinese</td>
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<td>0100  Basic Chinese</td>
<td>A year-long introduction to Standard Chinese (Mandarin). Speaking, reading, writing, and grammar. Five classroom meetings weekly. This is the first half of a year-long course whose first semester grade is normally a temporary one. Either semester may be elected independently without special written permission. The final grade submitted at the end of the course work in CHIN 0200 covers the entire year and is recorded as the final grade for both semesters. Enrollment limited to 18.</td>
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<td>0150  Advanced Beginning Chinese</td>
<td>A year-long intensive course designed for students with some prior knowledge of Chinese. Designed to enhance listening, speaking, reading, and writing skills. Five classroom meetings weekly. Placement interview required. This is the first half of a year-long course whose first semester grade is normally a temporary one. Either semester may be elected independently without special written permission. The final grade submitted at the end of the course work in CHIN 0250 covers the entire year and is recorded as the final grade for both semesters. Enrollment limited to 18.</td>
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<td>0200  Basic Chinese</td>
<td>A year-long introduction to Standard Chinese (Mandarin). Speaking, reading, writing, and grammar. Five classroom meetings weekly. This is the second half of a year-long course. Students must have taken CHIN 0100 to receive credit for this course. The final grade for this course will become the final grade for CHIN 0100. If CHIN 0100 was taken for credit then this course must be taken for credit; if taken as an audit, this course must also be taken as an audit. Exceptions to this policy must be approved by both the academic department and the</td>
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</table>

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
Committee on Academic Standing. Enrollment limited to 18. Prerequisite: CHIN 0100.

Spr CHIN0200 S01 20198 MWF 9:00-9:50 & TTh 9:30-10:20(18) (L. Hu) 
Spr CHIN0200 S02 20199 MWF 10:00-10:50 & TTh 10:30-11:20(18) (L. Hu) 
Spr CHIN0200 S03 20200 MWF 12:00-12:50 & TTh 12:00-12:50(18) (L. Hu) 
Spr CHIN0200 S04 20201 MWF 1:00-1:50 & TTh 1:30-2:20(18) (L. Hu) 
Spr CHIN0200 S05 20202 MWF 2:00-2:50 & TTh 2:30-3:20(18) (L. Hu) 

0250 Advanced Beginning Chinese
A year-long intensive course designed for students with some prior knowledge of Chinese. Designed to enhance listening, speaking, reading, and writing skills. Five classroom meetings weekly. Placement interview required. This is the second half of a year-long course. Students must have taken CHIN 0150 to receive credit for this course. The final grade for this course will become the final grade for CHIN 0150. If CHIN 0150 was taken for credit then this course must be taken for credit; if taken as an audit, this course must also be taken as an audit. Exceptions to this policy must be approved by both the academic department and the Committee on Academic Standing. Enrollment limited to 18. Prerequisite: CHIN 0150.

Spr CHIN0250 S01 20202 TWTThF 12:00-12:50(05) (H. Tseng)

0300 Intermediate Chinese
An intermediate course in Standard Chinese designed to further communicative competence and to develop reading and writing skills. Five classroom meetings weekly. Prerequisite: CHIN 0200 or permission of instructor. Enrollment limited to 18.

Fall CHIN0300 S01 10206 MWF 9:00-9:50 & TTh 9:30-10:20(18) (Y. Wang) 
Fall CHIN0300 S02 10207 MWF 12:00-12:50 & TTh 12:00-12:50(18) (Y. Wang) 
Fall CHIN0300 S03 10208 MWF 1:00-1:50 & TTh 1:00-1:50(18) (Y. Wang) 
Fall CHIN0300 S04 13304 MWF 2:00-2:50 & TTh 2:00-2:50(18) (Y. Wang) 

0400 Intermediate Chinese
An intermediate course in Standard Chinese designed to further communicative competence and to develop reading and writing skills. Five classroom meetings weekly. Prerequisite: CHIN 0300 or permission of instructor. Enrollment limited to 18.

Spr CHIN0400 S01 20203 MWF 9:00-9:50 & TTh 9:30-10:20(18) (Y. Wang) 
Spr CHIN0400 S02 20204 MWF 12:00-12:50 & TTh 12:00-12:50(18) (Y. Wang) 
Spr CHIN0400 S03 20205 MWF 1:00-1:50 & TTh 1:00-1:50(18) (Y. Wang) 
Spr CHIN0400 S04 23290 MWF 2:00-2:50 & TTh 2:00-2:50(18) (Y. Wang) 

0500 Advanced Modern Chinese I
An advanced course designed to enable students to read authentic materials. Students enhance their listening, speaking, reading, and writing skills; improve their narrative and descriptive abilities; and learn to express abstract ideas both orally and in writing. Five classroom meetings weekly. Prerequisite: CHIN 0250 or CHIN 0400 or permission of instructor. Enrollment limited to 18.

Fall CHIN0500 S01 13742 MWF 9:00-9:50 & TTh 9:00-9:50(17) (J. Huang Hsieh) 
Fall CHIN0500 S02 10209 MWF 11:00-11:50 & TTh 11:00-11:50(17) (J. Huang Hsieh) 
Fall CHIN0500 S03 10210 MWF 12:00-12:50 & TTh 12:00-12:50(17) (J. Huang Hsieh) 

0600 Advanced Modern Chinese I
An advanced course designed to enable students to read authentic materials. Students enhance their listening, speaking, reading, and writing skills; improve their narrative and descriptive abilities; and learn to express abstract ideas both orally and in writing. Five classroom meetings weekly. Prerequisite: CHIN 0500 or permission of instructor. Enrollment limited to 18.

Spr CHIN0600 S01 20206 MWF 9:00-9:50 & TTh 9:00-9:50(17) (J. Huang Hsieh) 
Spr CHIN0600 S02 20207 MWF 11:00-11:50 & TTh 11:00-11:50(17) (J. Huang Hsieh) 
Spr CHIN0600 S03 23833 MWF 12:00-12:50 & TTh 12:00-12:50(17) (J. Huang Hsieh) 

0700 Advanced Modern Chinese II
This course is designed to enhance the Chinese proficiency of those who have taken Advanced Modern Chinese I (CHIN 0600) or the equivalent. All four language skills are emphasized through selected authentic materials. At the end of the year, students should be able to express their ideas with sophistication and nuance. Drills on complex sentence patterns will be conducted when necessary. Prerequisite: CHIN 0600 or permission of instructor.

Fall CHIN0700 S01 10211 MWF 10:00-10:50(18) (H. Tseng) 
Fall CHIN0700 S02 13303 MWF 1:00-1:50(18) (H. Tseng) 

0800 Advanced Modern Chinese II
This course is designed to enhance the Chinese proficiency of those who have taken Advanced Modern Chinese I (CHIN 0600) or the equivalent. All four language skills are emphasized through selected authentic materials. At the end of the year, students should be able to express their ideas with sophistication and nuance. Drills on complex sentence patterns will be conducted when necessary. Prerequisite: CHIN 0700 or permission of instructor.

Spr CHIN0800 S01 20208 MWF 10:00-10:50(18) (H. Tseng) 
Spr CHIN0800 S02 23281 MWF 1:00-1:50(18) (H. Tseng) 

0910 Chinese for Special Topics
For students who are ready to use Chinese in a field of interest. Courses will introduce a basic approach to doing research by using Chinese on various disciplines related to East Asian cultures. Students will read and discuss Chinese texts on specific topics and obtain general background information on topics from reading source materials written in English. Prerequisite: CHIN 0600 or equivalent.

0910A Academic Chinese I
This course trains students to read texts in order to improve language skills and acquire the ability to do research in academic fields. Through reading and discussing literature, newspaper and magazine articles, and academic writings, students will gain a better understanding of traditional and modern China. Prerequisite: CHIN 0800 or permission of the instructor.

Fall CHIN0910A S01 10212 TTh 1:00-2:20(10) (M. Zhang) 

0910B Introduction to Classical Chinese
A course aiming to provide the basics of reading Classical Chinese, its grammar, syntax, vocabulary, and word usage. As much as possible, we will use modern Chinese to explicate and discuss classical texts. Readings are original passages from texts dating from the Eastern Zhou to Former Han, 770 BCE to 25 AD, that introduce students to the cultural world of early China. Prerequisite: CHIN 0600 or equivalent, or permission of the instructor.

Fall CHIN0910B S01 13557 MWF 11:00-11:50(04) (K. Lowry) 

0920 Chinese for Special Topics
For students who are ready to use Chinese in a field of interest. Courses will introduce a basic approach to doing research by using
Chinese on various disciplines related to East Asian cultures. Students will read and discuss Chinese texts on specific topics and obtain general background information on topics from reading source materials written in English. Prerequisite: CHIN 0600 or equivalent.

0920A Advanced Reading and Writing in Chinese
This course trains students to read texts in order to improve language skills and acquire the ability to do research in academic fields. Masterpieces by statesmen, economists, historians, scientists, literary critics, and sociologists will be analyzed and focused. Focus will be on the training of both analytical ability and writing skills. Prerequisite: CHIN 0800 or permission of the instructor.

Spr CHIN0920A S01 25346 TTh 1:00-2:20(10) (M. Zhang)

0920B Classical Chinese
This course aims to build on basic knowledge of reading Classical Chinese grammar, syntax, and vocabulary. The class will use modern Chinese (Mandarin) to discuss classical texts. Readings are original works of prose and poetry dating from the 2nd to 12th century CE. Prerequisite: CHIN 0910B or permission of the instructor.

Spr CHIN0920B S01 24033 MWF 11:00-11:50(04) (K. Lowry)

0920D Business Chinese
Business Chinese focuses on practical language skills that are most useful in business interactions in Chinese-speaking communities. Classroom activities are largely based on authentic documents and correspondence as well as a textbook. Through intensive practice in the listening, speaking, reading and writing of the Chinese language for business purposes, this course aims at enhancing students’ linguistic knowledge in a business context. Classes are conducted in Chinese. Prerequisite: CHIN 0800 or instructor permission. Enrollment limited to 18.

Spr CHIN0920D S01 23685 TTh 2:30-3:50(11) (S. Zhang)

(For Undergraduates and Graduates)

1040 Modern Chinese Literature
Introduces students to the most representative writers in 20th century China. Emphasizes textual and historical analyses. Major issues include Westernization, nationalism, revolution, class, gender, and literary innovations. Designated primarily as a literature course, rather than language class, and conducted entirely in Mandarin Chinese. Prerequisite: CHIN 0800 or permission of instructor.

Spr CHIN1040 S01 25347 TTh 2:30-3:50(11) (L. Wang)

1910 Independent Study
Reading materials for research in Chinese. Sections numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor’s permission required.

Fall; Spr

East Asian Studies

(Primarily for Undergraduates)

0020 Introduction to Chinese Art and Culture (HIAA 0040)
Interested students must register for HIAA 0040 S01 (CRN 15556).

0180 Japan: Nature, Ritual, and the Arts
This course is an introduction to Japanese culture and aesthetics as represented in pre-modern literature, drama, visual arts, tea practices, and martial arts. Recurring themes include Japanese attitudes toward the natural world; religious elements in traditional conceptions of beauty; and the function of ritual and mindfulness in artistic cultivation. The course is designed for students who have no previous exposure to Japanese studies at the college level; no prerequisites.

Fall EAST0180 S01 15947 TTh 2:30-3:50(11) (J. Sawada)

0190 Japanese Religious Traditions (RELS 0190)
Interested students must register for RELS 0190 S01 (CRN 25376).

0200 Chinese Scholar Ink Painting (HIAA 0200)
Interested students must register for HIAA 0200 S01 (CRN 25362).

0410 Introduction to East Asian Civilization: China (HIST 0410)
Interested students must register for HIST 0410 S01 (CRN 11854).

0420 Introduction to East Asian Civilization: Japan (HIST 0420)
Interested students must register for HIST 0420 S01 (CRN 21302).

0540 Introduction to Contemplative Studies (UNIV 0540)
Interested students must register for UNIV 0540 S01 (CRN 24388) and L01 (CRN 24389).

0950 First Year Seminars
Enrollment limited to 20 first year students. FYS

0950A Turning Japanese: Constructing Nation, Race and Culture in Modern Japan
This first year seminar focuses on Japan’s experiences with historical processes and concepts which have transformed the modern world. These include the creation of the nation as the fundamental structure for social and political organization, as well as the evolution and implications of beliefs and practices associated with race, culture and tradition. Participants will work with primary sources and scholarly analysis from diverse disciplinary perspectives. Enrollment limited to 20 first year students. FYS WRIT

Fall EAST0950A S01 15547 Th 4:00-6:20(13) (K. Smith)

0980A Taiwan: Crossroads of World History (HIST 0980A)
Interested students must register for HIST 0980A S01 (CRN 25293).

(For Undergraduates and Graduates)

1010 From Basho to Banana: Four Centuries of Japanese Literature
This course explores classic writers of Japanese literature written between 1600 and 2000. We will focus on both the specificity of Japanese genre as well as the historical, social relations that have shaped them—Edo merchant culture, modernism, the avant-garde, mass culture and postmodernism, among others. Writers covered will include Ihara Saikaku, Jippensha Ikku, Higuchi Ichioyo, Natsume Soseki, Akutagawa Ryunosuke, Tanizaki Junichiro and Yoshimoto Banana. No prerequisites.

Fall EAST1010 S01 14134 TTh 2:30-3:50(11) (S. Perry)

1040A Arts of Imperial Song (HIAA 1040A)
Interested students must register for HIAA 1040A S01 (CRN 25369).

1050 The Chinese Novel
The purpose of this course is to help us see how the Chinese novel took shape from popular sources, such as storytelling and drama, how the novel drew on history as well as legend, and how its authors and editors express a distinct world view. The class will cover the “masterworks” of the Chinese novel. Through intensive reading, students can explore notions of the hero and heroism, moral action and, more broadly, history and literature from a comparative perspective. All readings are in English translation. Limited to 20 freshmen and sophomores, or by instructor permission.

Fall EAST1050 S01 14583 M 3:00-5:20(13) (K. Lowry)

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
1070 China Modern: An Introduction to the Literature of Twentieth-Century China
A general introduction to modern and contemporary Chinese literature from the May Fourth Movement to contemporary Taiwan and the People's Republic of China. Emphasizes reading of literary works in relation to topics such as cultural tradition, modernity, nationalism, revolution, class, gender, region, cultural commodification, and literary innovations. Readings in English. No previous knowledge of Chinese required. LILE

Fall EAST1070 S01 10215 MWF 10:00-10:50(03) (L. Wang)

1100 Korean Culture and Film
This course aims to introduce and explore various aspects of Korean history, culture and society. Students are expected to develop a comprehensive understanding of Korean culture by examining contemporary films that pertain to issues such as national identity, history, international relations, religion, Korean life style, and family life. Enrollment limited to 20.

Fall EAST1100 S01 10327 W 3:00-5:20(14) (H. Wang)

1200 Pop, Political and Patrician: Culture in Japan and the Koreas
This course introduces students to the modern cultures of Japan and Korea through an examination of events, artifacts, and cultural practices. The over-arching goal of the class is two-fold: to create an alternative narrative to the dominant Orientalized vision of East Asian culture and to deepen our knowledge of the overlapping cultural histories of Japan and Korea. With a broad understanding of culture as a general process of artistic and intellectual development, as a body of material artifacts, and as a social practice of ordinary life, we shall focus our attention on the implications of studying culture in relation to popular media and political activism in particular. Topics covered will include: colonial fiction, the re-creation of tradition, art and atrocity, the proletarian arts, postwar children's culture, the globalization of popular music, myth in the DPRK, shoji, print culture, and East Asian activism.

Fall EAST1200 S01 15548 W 3:00-5:20(14) (S. Perry)

1270 China Through the Lens: History, Cinema, and Critical Discourse
This is a critical introduction to the history of mainland Chinese film. It focuses on three dimensions of cinematic practice: the historical context of film productions, the specific content/form of each film, and the critical reception of Chinese films in film studies. Important themes such as nation, visual modernity, cinematic narrative, and commercialism will be studied across the three dimensions. Enrollment limited to 30.

Spr EAST1270 S01 25349 MW 10:00-10:50(03) (L. Wang)

1380 Peasant Rebellion and Popular Religion in China (HIST 1380)
Interested students must register for HIST 1380 S01 (CRN 24491).

1420 The Confucian Mind
This course explores the Neo-Confucian tradition, a pervasive influence in the intellectual, educational, and political life of China, Korea, and Japan from late medieval through early modern times. Emphasis is on conceptions of the mind and their implications for moral cultivation and social action; the legacy of Confucian values in modern East Asia may also be considered. Readings are primary texts in translation and selected secondary works; the format is primarily discussion. Recommended prerequisite: RELS 0040. Not open to first year students. Enrollment limited to 20.

Spr EAST1420 S01 25790 W 3:00-5:20(14) (J. Sawada)

1430 Classics of East Asian Buddhism (RELS 1430)
Interested students must register for RELS 1430 S01 (CRN 15571).

1510A China's Late Empires (HIST 1510A)
Interested students must register for HIST 1510A S01 (CRN 13731).

1520B Twentieth Century China (HIST 1520B)
Interested students must register for HIST 1520B S01 (CRN 21575).

1530 Modern Korea (HIST 1530)
Interested students must register for HIST 1530 S01 (CRN 21380).

1880 Directed Readings in Chinese Thought

1880C Zen Meditation in China, Korea, and Japan
An intensive study of the origin and development of Zen Meditation in China, Korea, and Japan featuring historical origins in Indian Mahayana Buddhism and Chinese Daoism. Historical and social contextualization will be balanced by first-person investigations. Both kōan and silent illumination styles will be studied in depth. Weekly seminars will study representative texts in translation; labs will experiment with meditation techniques directly drawn from the readings. Students MUST register for the lecture section and a lab. Prerequisites: RELS 0100, RELS 0500, UNIV 0540; or instructor's permission.

Fall EAST1880C S01 15879 W 3:00-5:20(14) (H. Roth)

1880D Early Daoist Syncretism: Zhuang Zi and Huainan Zi
The final phase of the classical Daoist tradition has been called "syncretist" by Graham, "Huang-Lao" by Lin. It is the version of Daoism carried into the Han dynasty and the one that transmitted the tradition's earlier works. Casting a broad net we will examine a variety of works from this critical phase including the "Techniques of the Mind" texts in the Guanzi collection, the so-called "Huang-Lao" silk manuscripts from the Han tomb at Mawangdui, certain chapters of the Lushi chunqin, and selections from the Zhuangzi and Huainanzi. We will trace the ways in which cosmology, self-cultivation, and political thought coalesce in these works. Enrollment limited to 20. Prerequisite: RELS 0040, 0120 or 0510.

Spr EAST1880D S01 25350 Th 4:00-6:20(16) (H. Roth)

1910 Independent Study
Sections numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor’s permission required.

Fall; Spr

1930 Reading and Writing of the Honors Thesis
Prior admission to honors candidacy required. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor's permission required.

Fall

1940 Reading and Writing of the Honors Thesis
Prior admission to honors candidacy required. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor's permission required.

Spr

1950 Undergraduate Seminars in East Asian Studies
These seminars are primarily for juniors and seniors. May be repeated for credit. Enrollment limited to 20.

1950B Chinese Women, Gender and Feminism from Historical and Transnational Perspectives
This seminar course is designed to critically re-evaluate (re)presentations of Chinese women, gender, and feminism in historical, literary, and academic discourses. It examines a diverse body of texts produced through different historical periods and in different geopolitical locations. It emphasizes gender as both a historical construct(s) among competing discourses and as a material process of individual embodiment and disembodiment. The goal of the
Japanese

(Primarily for Undergraduates)

0100 Basic Japanese
Introduction to Japanese language. Emphasizes the attainment of good spoken control of Japanese and develops a foundation of literacy. No prerequisites. This is the first half of a year-long course whose first semester grade is normally a temporary one. Neither semester may be elected independently without special written permission. The final grade submitted at the end of the course work in JAPN 0250 covers the entire year and is recorded as the final grade for both semesters. The East Asian Studies department wishes to provide language instruction to all interested students. If you are unable to register for this course due to enrollment limits but are dedicated to learning Japanese, please contact the instructor via email. Enrollment limited to 18.

Fall JAPN0100 S01 10301 MWF 9:00-9:50 & TTh 9:00-10:20(13) (K. Yamashita)
Fall JAPN0100 S01 10324 MWF 10:00-10:50 & TTh 10:30-11:50(13) (K. Yamashita)

0150 Advanced Beginning Japanese
Designed for those who have had high-school Japanese or other Japanese language experience. An opportunity to organize previous knowledge of Japanese and develop a firm basis of spoken and written Japanese. Prerequisite: Reading and writing knowledge of Hiragana, Katakana, and some Kanji. Placement test required. This is the first half of a year-long course whose first semester grade is normally a temporary one. Neither semester may be elected independently without special written permission. The final grade submitted at the end of the course work in JAPN 0250 covers the entire year and is recorded as the final grade for both semesters. The East Asian Studies department wishes to provide language instruction to all interested students. If you are unable to register for this course due to enrollment limits but are dedicated to learning Japanese, please contact the instructor via email. Enrollment limited to 18.

Fall JAPN0150 S01 10302 MWF 9:00-9:50 & TTh 9:00-10:20(02) (H. Tajima)

0200 Basic Japanese
Introduction to Japanese language. Emphasizes the attainment of good spoken control of Japanese and develops a foundation of literacy. This is the second half of a year-long course. Students must have taken JAPN 0100 to receive credit for this course. The final grade for this course will become the final grade for JAPN 0100. If JAPN 0100 was taken for credit then this course must be taken for credit; if taken as an audit, this course must also be taken as an audit. Exceptions to this policy must be approved by both the academic department and the Committee on Academic Standing. The East Asian Studies department wishes to provide language instruction to all interested students. If you are unable to register for this course due to enrollment limits but are dedicated to learning Japanese, please contact the instructor via email. Enrollment limited to 18. Prerequisite: JAPN 0150.

Spring JAPN0200 S01 20274 MWF 9:00-9:50 & TTh 9:00-10:20(16) (K. Yamashita)
Spring JAPN0200 S02 20314 MWF 10:00-10:50 & TTh 10:30-11:50(16) (K. Yamashita)
Spring JAPN0200 S03 20315 MWF 1:00-1:50 & TTh 1:00-2:20(16) (K. Yamashita)

0250 Advanced Beginning Japanese
Designed for those who have had high-school Japanese or other Japanese language experience. An opportunity to organize previous knowledge of Japanese and develop a firm basis of spoken and written Japanese. Prerequisite: Reading and writing knowledge of Hiragana, Katakana and some Kanji. Placement test required. This is the second half of a year-long course. Students must have taken JAPN 0150 to receive credit for this course. The final grade for this course will become the final grade for JAPN 0150. If JAPN 0150 was taken for credit then this course must be taken for credit; if taken as an audit, this course must also be taken as an audit. Exceptions to this policy must be approved by both the academic department and the Committee on Academic Standing. The East Asian Studies department wishes to provide language instruction to all interested students. If you are unable to register for this course due to enrollment limits but are dedicated to learning Japanese, please contact the instructor via email. Enrollment limited to 18. Prerequisite: JAPN 0150.

Spring JAPN0250 S01 20277 MWF 9:00-9:50 & TTh 9:00-10:20(02) (H. Tajima)

0300 Intermediate Japanese
Further practice of patterns and structures of the language. Readings are introduced on aspects of Japanese culture and society to develop reading and writing skills, enhance vocabulary, and provide points of departure for conversation in Japanese. Prerequisite: JAPN 0200 or equivalent. The East Asian Studies department wishes to provide

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
language instruction to all interested students. If you are unable to register for this course due to enrollment limits but are dedicated to learning Japanese, please contact the instructor via email. Enrollment limited to 18. Prerequisite: JAPN 0200.

Fall JAPN0300 S01 10303 MWF 11:00-11:50 & TTh 11:00-11:50(18) (Y. Jackson)
Fall JAPN0300 S02 10326 MWF 12:00-12:50 & TTh 12:00-12:50(18) (Y. Jackson)

0400 Intermediate Japanese
Further practice of patterns and structures of the language. Readings are introduced on aspects of Japanese culture and society to develop reading and writing skills, enhance vocabulary, and provide points of departure for conversation in Japanese. Prerequisite: JAPN 0300 or equivalent. The East Asian Studies department wishes to provide language instruction to all interested students. If you are unable to register for this course due to enrollment limits but are dedicated to learning Japanese, please contact the instructor via email. Enrollment limited to 18. Prerequisite: JAPN 0300.

Spr JAPN0400 S01 20278 MWF 11:00-11:50 & TTh 11:00-11:50(18) (Y. Jackson)
Spr JAPN0400 S02 20316 MWF 12:00-12:50 & TTh 12:00-12:50(18) (Y. Jackson)

0500 Advanced Japanese
Continued practice in reading, writing, and speaking. Emphasizes the development of reading proficiency and speaking in cultural contexts. Students read actual articles and selections from Japanese newspapers. Course includes translation, with writing and discussion in Japanese. Films and video tapes are shown as supplementary materials. Prerequisite: JAPN 0400 or equivalent.

Fall JAPN0500 S01 10305 MWF 1:00-1:50 & TTh 12:00-12:50(06) (H. Tajima)

0600 Advanced Japanese
See Advanced Japanese (JAPN 0500) for course description. Prerequisite: JAPN 0500.

Spr JAPN0600 S01 20279 MWF 1:00-1:50 & TTh 12:00-12:50(06) (H. Tajima)

0700 Advanced Readings in Japanese
Reading of articles from Japan's press with discussion in Japanese. Focuses on explanations and drills on the fine points in grammar and vocabulary as well as on the practice of writing in various styles. Movies and video tapes are used as supplementary materials. Prerequisite: JAPN 0600 or equivalent.

Fall JAPN0700 S01 10308 MWF 2:00-2:50(07) (Y. Jackson)

0800 Advanced Readings in Japanese
See Advanced Readings in Japanese (JAPN 0700) for course description. Prerequisite: JAPN 0700.

Spr JAPN0800 S01 20280 MWF 2:00-2:50(07)

0910 Japanese for Special Topics
For students who are ready to use Japanese in a field of interest. Courses will introduce a basic approach to doing research by using Japanese on various disciplines related to East Asian cultures. Students will read and discuss Japanese texts on specific topics and obtain general background information on topics from reading source materials written in English. Prerequisite: JAPN 0600 or equivalent.

Spr JAPN0910A S01 25353 Th 4:00-6:20(16) (K. Yamashita)

0910B Japanese Cities: Tokyo and Kyoto
The goal of this course is to develop ability to use Japanese source materials for research in social sciences. Course covers lifestyles in two contrasting cities, Tokyo and Kyoto. Topics include topography, environmental issues, houses, urban life-styles, and natural habitation. We will ask questions: why houses are so compact in cities; why crows and boars pick on garbage, etc. Information sources are films, videos, and websites in addition to textbooks. Prerequisite: JAPN 0600 or equivalent.

Fall JAPN0910B S01 15551 M 3:00-5:20(13) (K. Yamashita)

0920 Japanese for Special Topics
For students who are ready to use Japanese in a field of interest. Courses will introduce a basic approach to doing research by using Japanese on various disciplines related to East Asian cultures. Students will read and discuss Japanese texts on specific topics and obtain general background information on topics from reading source materials written in English. Prerequisite: JAPN 0600 or equivalent.

0920A Business Japanese
This course is designed to teach post-advanced level Japanese language with the focus on effective oral and written communication in business situations. This course emphasizes vocabulary build-up in the area of business and economics, use of formal expressions, business writing, and conversation and presentation skills, as well as familiarizing students with Japanese corporate culture, protocol, and interpersonal relationships. Prerequisite: JAPN 0700 or equivalent.

Spr JAPN0920A S01 20281 MWF 2:00-2:50(07) (Y. Jackson)

(For Undergraduates and Graduates)

1310 Japanese Linguistics: Communication and Understanding Utterances
Introduces a linguistic analysis of Japanese language to attain an overview structure and a foundation for understanding how grammar relates to various modes of communication. Topics include discourse analysis, pragmatics, communicative intention, communication strategies, and intercultural communication gaps. Linguistic data is drawn from films and fiction. Prerequisite: basic knowledge of Japanese grammar, vocabulary, and linguistics.

Spr JAPN1310 S01 20282 M 3:00-5:20(13) (K. Yamashita)

1910 Independent Study
Reading materials for research in Japanese. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor's permission required.

Fall; Spr

Korean

0100 Korean
Begins with an introduction to the Korean writing system (Hangul) and focuses on building communicative competence in modern Korean in the four language modalities (listening, speaking, reading, writing). Provides a foundation for later work in spoken and written Korean. Six classroom hours per week. No prerequisite. Enrollment limited to 18. This is the first half of a year-long course whose first semester grade is normally a temporary one. Neither semester may be elected.

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
Economics

independently without special written permission. The final grade submitted at the end of the course work in KREA 0200 covers the entire year and is recorded as the final grade for both semesters. Enrollment limited to 18.

Fall  KREA0100  S01  14126  MWF 11:00-11:50 & TTh 11:00-11:50(04)  (H. Wang)

0200  Korean

Begins with an introduction to the Korean writing system (Hangul) and focuses on building communicative competence in modern Korean in the four language modalities (listening, speaking, reading, writing). Provides a foundation for later work in spoken and written Korean. Six classroom hours per week. Enrollment limited to 18. This is the second half of a year-long course. Students must have taken KREA 0100 to receive credit for this course. The final grade for this course will become the final grade for KREA 0100. If KREA 0100 was taken for credit then this course must be taken for credit; if taken as an audit, this course must also be taken as an audit. Exceptions to this policy must be approved by both the academic department and the Committee on Academic Standing. Enrollment limited to 18.

Spr  KREA0200  S01  24067  MWF 11:00-11:50 & TTh 11:00-11:50(04)  (H. Wang)

0300  Intermediate Korean

An intermediate course in Korean designed to further communicative competence in spoken Korean and to provide additional reading practice in stylistically higher level materials that are progressively integrated into the given dialogues. Discussions on various aspects of Korean culture and society. Four classroom hours per week. Prerequisite: KREA 0200 or instructor permission.

Fall  KREA0300  S01  15552  MWF 2:00-2:50 & TTh 2:30-3:20(07)  (H. Wang)

0400  Intermediate Korean

An intermediate course in Korean designed to further communicative competence in spoken Korean and to provide additional reading practice in stylistically higher level materials that are progressively integrated into the given dialogues. Discussions on various aspects of Korean culture and society. Four classroom hours per week. Prerequisite: KREA 0100-0200 or equivalent.

Spr  KREA0400  S01  25354  MWF 10:00-10:50 & TTh 9:30-10:20(03)  (H. Wang)

0920  Korean for Special Topics

For students who completed Korean 0400 and are ready to use the language in a field of interest. Introduces a basic approach to research by using Korean on various disciplines related to East Asian cultures. Students will read and discuss Korean texts on specific topics and also obtain general background information on the topics from reading source materials written in English. Prerequisite KREA 0400 or equivalent.

Spr  KREA0920A  S01  25355  TTh 2:30-3:50(11)  (H. Wang)

(For Undergraduates and Graduates)

1910  Independent Study

Reading materials for research in Korean. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor’s permission required.

Fall; Spr

Economics

(Primarily for Undergraduates)

0110  Principles of Economics

Extensive coverage of economic issues, institutions, and vocabulary, plus an introduction to economic analysis and its application to current social problems. Required for all economics concentrators. Prerequisite for ECON 1110, 1130, 1210 and 1620. Serves as a general course for students who will take no other economics courses and want a broad introduction to the discipline. Weekly one-hour conference required (conferences are not held during the summer session). Students MUST register for a conference, and a lecture section.

Spr  ECON0110  S01  60287  TTh 9:00-1:00
Fall  ECON0110  S01  12429  MWF 9:00-9:50(02)  (R. Friedberg)
Spr  ECON0110  S01  21700  MWF 9:00-9:50(02)  (R. Friedberg)

0510  Development and the International Economy

A course designed primarily for students who do not plan to concentrate in economics but who seek a basic understanding of the economics of less developed countries, including savings and investment, health and education, agriculture and employment, and interactions with the world economy, including trade, international capital flows, aid, and migration. Prerequisite: ECON 0110.

Spr  ECON0510  S01  21646  MWF 1:00-1:50(06)  (L. Putterman)

0710  Financial Accounting

Basic accounting theory and practice. Accounting procedures for various forms of business organizations.

Sum  ECON0710  S01  60288  MWF 4:00-6:40  (R. D’Andrea)
Fall  ECON0710  S01  12440  MW 6:00-7:20(18)  (F. Sciuto)
Fall  ECON0710  S02  12492  TTh 6:00-7:20(18)  (H. Silva)
Spr  ECON0710  S01  21701  MW 6:00-7:20(18)  (F. Sciuto)
Spr  ECON0710  S02  21702  TTh 6:00-7:20(18)  (H. Silva)

(For Undergraduates and Graduates)

1110  Intermediate Microeconomics

Tools for use in microeconomic analysis, with some public policy applications. Theory of consumer demand, theories of the firm, market behavior, welfare economics, and general equilibrium. Prerequisite: MATH 0060, 0070, 0090, 0100, 0170, 0180, 0190, 0200, or 0350; and ECON 0110; or advanced placement. Students MUST register for a conference, and a lecture section.

Sum  ECON1110  S01  60289  TTh 1:30-5:30  (C. Pargianas)
Fall  ECON1110  S01  12441  MWF 9:00-9:50(02)
Fall  ECON1110  S02  12509  MWF 2:00-2:50(07)
Fall  ECON1110  S03  13713  MWF 1:00-1:50(06)
Spr  ECON1110  S01  21713  TTh 10:30-11:50(09)  (P. Dal Bo)
Spr  ECON1110  S02  21714  TTh 1:00-2:20(10)  (P. Dal Bo)
Spr  ECON1110  S03  23658  MWF 2:00-2:50(07)

1130  Intermediate Microeconomics (Mathematical)

Microeconomic theory: Theories of the consumer and firm, competitive equilibrium, factor markets, imperfect competition, game theory, welfare economics, general equilibrium. May not be taken in addition to ECON 1110. Prerequisite: MATH 0100, 0170, 0180, 0190, 0200, or 0350; and ECON 0110; or advanced placement. Students MUST register for a conference, and a lecture section.

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
1210 Intermediate Macroeconomics
The economy as a whole: Level and growth of national income, inflation, unemployment, role of government policy. Prerequisite: MATH 0600, 0700, 0900, 0100, 0170, 0180, 0190, 0200, or 0350; and ECON 0110. Students MUST register for a conference, and a lecture section.

Fall  ECON1210  S01   12442   TTh 9:00-10:20(08) (P. Howitt)
Fall  ECON1210  S02   12512   MWF 10:00-10:50(03)
Fall  ECON1210  S03   15796   MWF 9:00-9:50(02)
Spr  ECON1210  S01   21715   MWF 10:00-10:50(03)
Spr  ECON1210  S02   21716   TTh 9:00-10:20(08)
Spr  ECON1210  S03   25639   MWF 2:00-2:50(07)

1300 Education, the Economy and School Reform (EDUC 1150)
Interested students must register for EDUC 1150 S01 (CRN 23665).

1350 Environmental Economics and Policy (ENVS 1350)
Interested students must register for ENVS 1350 S01 (CRN 11644).

1355 Economics of the Environment in Developing Countries (ENVS 1355)
Interested students must register for ENVS 1355 S01 (CRN 24497).

1360 Health Economics
This course introduces students to the issues, theory and practice of health economics in the US. Topics include the economic determinants of health, the market for medical care, the market for health insurance and the role of the government in health care. Course work includes data analyses using the program STATA. Prerequisites: ECON 1110 or 1130; and ECON 1620, 1630, or APMA 1650 or other statistics background. Students MUST register for a conference, and a lecture section. Instructor’s permission required.

Spr  ECON1360  S01   21648   TTh 9:00-10:20(08) (A. Aizer)

1390 Research Methods for Economists
This course is designed to prepare students to undertake empirical research in economics. Students thinking of writing an honors thesis or conducting independent research are especially urged to take it during their junior year. We will answer such questions as what does an empirical research paper look like? How do we formulate a hypothesis to test? How can we use data to test our hypothesis? Students will read and discuss papers published in professional journals and perform data analysis as part of the course requirements. Prerequisites: ECON 1110 or 1130; and ECON 1620 or 1630. Students MUST register for a conference, and a lecture section.

Spr  ECON1390  S01   24502   TTh 2:30-3:50(11) (A. Aizer)

1410 Urban Economics
The first part of the course covers the set of conceptual and mathematical models widely used to understand economic activity both between and within cities. The second part of the course examines various urban policy issues including urban transportation, housing, urban poverty, segregation and crime. The course makes extensive use of empirical evidence taken primarily from the United States. Prerequisites: ECON 1110 or 1130.

Spr  ECON1410  S01   25640   TTh 1:00-2:20(10) (N. Baum-Snow)

1420 Urbanization in China
Examines urbanization processes and urban public policy in China. Also draws on historical and recent experience in the U.S. Policy areas including policies affecting urbanization, migration, and industrial location; policies affecting housing, land use, and urban reform; and policies affecting fiscal decentralization and infrastructure investments such as transportation. Prerequisites: ECON 1110 or ECON 1130. Enrollment limited to 15. DVPS

1470 Bargaining Theory and Applications
Bargaining theory is emerging as an important area within the general rubric of game theory. Emphasis is on providing a relatively elementary version of the theory in order to make it accessible to a large number of students. Covers introductory concepts in game theory, strategic and axiomatic theories of bargaining and their connections, applications to competitive markets, strikes, etc. Prerequisite: ECON 1110 or 1130.

Fall  ECON1470  S01   15806   TTh 1:00-2:20(10) (P. DalBo)

1500 Current Global Macroeconomic Challenges
Analysis of current economic challenges in the U.S. and China. Topics include fiscal and monetary policies, international trade, capital flows and exchange rate policy, and policies for long-run growth. Emphasis on traditional macroeconomic policy issues and their global impact. Prerequisites: ECON 1210. Also recommended: ECON 1550 and 1850. Students MUST register for a conference, and a lecture section.

Fall  ECON1500  S01   12457   MWF 10:00-10:50(03) (M. Carkovic)

1510 Economic Development
The economic problems of less developed countries and the theory of economic development, with emphasis on the roles played by agriculture, industry, and foreign trade. Also: education, health, employment, and migration; capital accumulation; income distribution; institutional aspects; the role of price distortions; trade policies; social discount rates, investment criteria, and the general issue of state intervention. Prerequisite: ECON 1110 or 1130, and ECON 1620 or 1630. Students MUST register for a conference, and a lecture section.

Fall  ECON1510  S01   14740   MWF 11:00-11:50(04)

1520 The Economic Analysis of Institutions
This course deals with the economic analysis of institutions, with a focus on developing countries. The first section covers institutions in traditional agrarian societies. Topics include consumption smoothing and the organization of land, labor and credit markets. The second section focuses on the role of the community in facilitating economic activity. Institutions include cooperatives, networks, marriage and the family. Prerequisites: ECON 1110 or 1130; and ECON 1620 or 1630; or equivalent. Enrollment limited to 45. ;

Fall  ECON1520  S01   15807   TTh 10:30-11:50(09) (K. Munshi)

1540 International Trade

Fall  ECON1540  S01   12458   MWF 2:00-2:50(07) (M. Carkovic)

1550 International Finance
The balance of payments; identification and measurement of surpluses and deficits; international monetary standards; the role of gold and paper money; government policies; free versus fixed exchange rates; international capital movements; war and inflation; the International Monetary Fund. Prerequisite: ECON 1210. Students MUST register for a conference, and a lecture section.

Spr  ECON1550  S01   21657   MWF 9:00-9:50(02) (G. Borts)

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
1560 Economic Growth
A theoretical and empirical examination of economic growth and income differences among countries. Focuses on both the historical experience of countries that are currently rich and the process of catch-up among poor countries. Topics include population growth, accumulation of physical and human capital, technological change, natural resources, income distribution, geography, government, and culture. Prerequisite: ECON 1110 or 1130; and MATH 0060, 0070, 0090, 0100, 0170, 0180, 0190, 0200 or 0350.

1620 Introduction to Econometrics

Fall ECON1620 S01 12459 TTh 1:00-2:20(10) (B. Melly)
Spr ECON1620 S01 21718 MWF 11:00-11:50(04)

1630 Econometrics I
Advanced introduction to econometrics with applications in finance and economics. How to formulate and test economic questions of interest. The multivariate linear regression model is treated in detail, including tests of the model’s underlying assumptions. Other topics include: asymptotic analysis, instrumental variable estimation, and likelihood analysis. Convergence concepts and matrix algebra are used extensively. Prerequisites: ECON 1110 or 1130; and APMA 1650, MATH 1620, or ECON 1620; or equivalent. Students MUST register for a conference, and a lecture section.

Fall ECON1630 S01 12460 MW 8:30-9:50(02) (F. Kleibergen)
Spr ECON1630 S01 24503 MW 8:30-9:50(02) (F. Kleibergen)

1640 Econometrics II
Continuation of ECON 1630 with an emphasis on econometric modeling and applications. Includes applied topics from labor, finance, and macroeconomics. Prerequisite: ECON 1630. Students MUST register for a conference, and a lecture section.

Fall ECON1640 S01 16040 MWF 11:00-11:50(04) (S. Hoderlein)

1650 Financial Econometrics
Financial time series, for example, asset returns, options and interest rates, possess a number of stylized features that are analyzed using a specific set of econometric models. This course deals with an introduction to such models. It discusses time series models for analyzing asset returns and interest rates, (GARCH) models to explain volatility, models to explain extreme events which are used for the Value at Risk and models for options prices. Prerequisite: ECON 1620 or ECON 1630, or instructor permission.

Fall ECON1650 S01 15808 MW 8:30-9:50(02)

1710 Investments I
The function and operation of asset markets; the determinants of the prices of stocks, bonds, options, and futures; the relations between risk, return, and investment management; the capital asset pricing model, normative portfolio management, and market efficiency. Prerequisite: ECON 1110 or 1130; and ECON 1620 or 1630 or APMA 1650. Students MUST register for a conference, and a lecture section.

Spr ECON1710 S01 21723 MWF 9:00-9:50(02) (X. Qiu)
Spr ECON1710 S02 23532 MWF 10:00-10:50(03) (X. Qiu)

1720 Corporate Finance
A study of theories of decision-making within corporations, with empirical evidence as background. Topics include capital budgeting, risk, securities issuance, capital structure, dividend policy, compensation policy, mergers and acquisitions, real options, financial engineering, securitization. Prerequisite: ECON 1110 or 1130; and ECON 1620 or 1630 or APMA 1650. Students MUST register for a conference, and a lecture section.

Fall ECON1720 S01 12462 TTh 1:00-2:20(10) (I. Welch)
Fall ECON1720 S02 13620 TTh 2:30-3:50(11) (I. Welch)
Spr ECON1720 S01 25900 MWF 1:00-1:50(06)

1759 Data, Statistics, Finance
An experimental course that prepares students for research of the type conducted in academic finance, hedge funds, and some advanced consulting firms and I-Banks. Nothing like this is offered at any other university as far as the instructor knows. Students that do well in this course should have a head start in academic finance PhD programs, as well as in MBA programs, quantitatively oriented investment funds, finance companies, and consulting firms. Prerequisites: ECON 1110 or 1130; and ECON 1620 or 1630 or APMA 1650. CSCI0040 or equivalent also recommended as background. Instructor permission required. Instructor’s permission required. Enrollment limited to 20.

Spr ECON1759 S01 24621 M 3:00-5:20(13) (I. Welch)

1760 Financial Institutions
This course analyzes the role of financial institutions in allocating resources, managing risk, and exerting corporate governance over firms. After studying interest rate determination, the risk and term structure of interest rates, derivatives, and the role of central banks, it takes an international perspective in examining the emergence, operation, and regulation of financial institutions, especially banks. Prerequisites: ECON 1210. Students MUST register for a conference, and a lecture section.

Fall ECON1760 S01 12463 TTh 10:30-11:50(09) (R. Levine)
Fall ECON1760 S02 12535 TTh 1:00-2:20(10) (R. Levine)

1770 Fixed Income Securities
The fixed income market is much larger than the stock market in the U.S. Topics covered in this course include basic fixed income securities, term structure, hedging interest rate risk, investment strategies, fixed income derivatives, mortgage-backed securities and asset-backed securities. Prerequisite: ECON 1110 or 1130; and ECON 1620 or 1630 or APMA 1650, and ECON 1710 or 1720. Students MUST register for a conference, and a lecture section.

Fall ECON1770 S01 14289 MWF 11:00-11:50(04) (X. Qiu)

1800 Politics and Finance
This course examines how legislation and regulation influences the structure of financial markets and how players in these markets intervene in the political process to create or modify legislative and regulatory outcomes. Particular emphasis will be placed on the environment in the United States. International comparisons will also be present. Prerequisites: ECON 1110 or 1130; ECON 1770. Enrollment limited to 30.

Sum ECON1800 S01 60290 MWF 1:00-3:40

1810 Economics and Psychology
This course is about the challenges that economic theorists face in their quest for economic models in which decision makers have a "richer psychology" than prescribed by textbook models. The enrichment takes two forms: (i) broadening the set of considerations that affect decision makers’ behavior beyond simple, material self-interest; (ii) relaxing the standard assumption that agents have unlimited ability to perceive and analyze economic environments, and that they reason about uncertainty as “Bayesian statisticians”. Special emphasis will be put on the implications of “psychologically richer” models on market behavior. Prerequisite: ECON 1110 or 1130; and MATH 0100 or 0170 or 0180 or 0190 or 0200 or 0350; and ECON 1620 or 1630 or APMA 1650, or MATH 1610.

Fall ECON1810 S01 15820 W 3:00-5:20(14) (K. Eliaz)
First, we will discuss the several elements that characterize a two-sided matching market and will model several of these markets under the game-theoretic approach. Then, we will introduce the theory of stable matching model by focusing on both the cooperative and non-cooperative aspects of the one-to-one matching markets. 

Prerequisites: ECON 1110 or 1130; and ECON 1870.

Fall ECON1880 S01 14578 M 3:00-5:20(13)

1960 Honors Tutorial for Economics Majors
Students intending to write an honors thesis in economics must register for this class. The goal is to help students with the process of identifying and defining feasible topics, investigating relevant background literature, framing hypotheses, and planning the structure of their thesis. Each student must find a thesis advisor with interests related to their topic and plan to enroll in ECON 1970 during the final semester of senior year.

Fall ECON1960 S01 16044 TTh 9:00-10:20(08)

1970 Independent Research
Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course.

Fall; Spr

(Primarily for Graduates)

2010 Mathematics for Economists
Techniques of mathematical analysis useful in economic theory and econometrics. Linear algebra, constrained maximization, difference and differential equations, calculus of variations.

Fall ECON2010 S01 12468 TTh 9:00-10:20(08) (M. Dean)

2020 Applied Economics Analysis
This course provides students with skills needed to integrate economic theory, econometric methods, and data management in the analysis of economic problems. Provides a hands-on perspective including assignments designed to derive testable propositions from simple economic models, illustrate the loading, cleaning and merging of complex survey data, and provide experience in the selection and interpretation of basic econometric methods.

Spr ECON2020 S01 21677 TTh 9:00-10:20(08) (A. Foster)

2030 Introduction to Econometrics I
The probabilistic and statistical basis of inference in econometrics.

Fall ECON2030 S01 12469 MW 10:30-11:50(04) (B. Melly)

2040 Econometric Methods
Applications of mathematical statistics in economics. The nature of economic observations, cross-section and time series analysis, the analysis of variance and regression analysis, problems of estimation.

Spr ECON2040 S01 21680 MW 9:00-10:20(02)

2050 Microeconomics I
Decision theory: consumer’s and producer’s theory; general competitive equilibrium and welfare economics: the Arrow-Debreu-McKenzie model; social choice.

Fall ECON2050 S01 12475 MW 2:30-3:50(07) (R. Serrano)

2060 Microeconomics II
Economics of imperfect information: expected utility, risk and risk aversion, optimization under uncertainty, moral hazard, and self-selection problems. Economics of imperfect competition: monopoly; price discrimination; monopolistic competition; market structure in single shot, repeated and stage games; and vertical differentiation.

Spr ECON2060 S01 21685 MW 10:30-11:50(04) (K. Eliaz)

2070 Macroeconomics I
Consumption and saving, under both certainty and uncertainty; theory of economic growth; real business cycles; investment; and asset pricing.

Fall ECON2070 S01 13621 TTh 10:30-11:50(09) (D. Weil)

2080 Macroeconomics II
Money, inflation, economic fluctuations and nominal rigidities, monetary and fiscal policy, investment, unemployment, and search and coordination failure.

Spr ECON2080 S01 23533 TTh 10:30-11:50(09) (P. Howitt)

2090 Topics in Microeconomics
Resource allocation, market failure, and incentives. Examines the most common forms of market failure (incomplete information, incomplete markets, public goods, increasing returns), formulates a general approach to these issues, and explores methods for restoring efficiency including the study of mechanism design.

Fall ECON2090 S01 15872 W 3:00-5:20(14) (M. Dean)

2180 Game Theory

Spr ECON2180 S01 21686 W 3:00-5:20(14) (K. Eliaz)

2190 Topics in Economic Theory
Topics vary from year to year. Recent topics include: auction theory, cooperative game theory, and general equilibrium theory under incomplete information.

2190D Topics on Game Theory
First, we will discuss the several elements that characterize a two-sided matching market and the concept of setwise-stability versus core. Then, we will model several of these markets (one-to-one, many-to-one and many-to-many, in the discrete and continuous cases) under the game-theoretic approach and will define for all of them the stability concept, establishing its relationship with the core and the competitive equilibrium concepts. Afterwards, we will introduce the theory of stable matching model by focusing on both the cooperative and non-cooperative aspects of the one-to-one matching markets.

Fall ECON2190D S01 14906 MW 9:00-10:20(02)

2320 Economics of Labor and Population
This course examines identification issues in empirical microeconomics. Focus on the sensible application of econometric methods to empirical problems in economics and policy research -- particularly labor and population economics. The course examines issues that arise when analyzing non-experimental data and provides a guide for tools that are useful for applied research. The course also emphasizes how a basic understanding of theory and institutions can help form the analysis. By the end of the course, students should have a firm grasp of the types of research designs and methods that can lead to convincing analysis and be comfortable working with large-scale data sets.

Fall ECON2320 S01 13224 TTh 1:00-2:20(10) (K. Chay)

2360 Economics of Health and Population
An introduction to current research in the economics of health and population. Focuses on studies of empirically-tractable and tested models of individual, household, and firm behaviors and how these
behaviors interact through markets and other institutions. Among the subjects considered are the economics of fertility and marriage, the operation of the health services sector, and the implications of population aging.

Fall ECON2360 S01 14290 TTh 10:30-11:50(09) (A. Aizer)

2410 Urbanization
The first part of the course covers social interactions, productivity spillovers, systems of cities models, urban growth, and rural-urban migration. The second part of the course covers topics such as durable housing, land market regulation and exclusion, and local political economy. Besides covering basic theoretical models, emphasis is placed on working through recent empirical papers on both the USA and developing countries. Prerequisites: ECON 2050 and 2060.

Spr ECON2410 S01 24210 TTh 10:30-11:50(09) (J. Henderson)

2420 The Structure of Cities
This course covers standard urban land use theory, urban transportation, sorting across political jurisdictions, hedonics, housing, segregation and crime. Empirical examples are taken primarily from the United States. After taking the course, students will have an understanding of standard urban theory and of empirical evidence on various important applied urban topics. In addition, students will gain practical experience in manipulating spatial data sets and simulating urban models.

Fall ECON2420 S01 14291 MW 8:30-9:50(02) (N. Baum-Snow)

2480 Public Economics
Theoretical and empirical analysis of the role of government in private economies. Topics include welfare economics, public goods, externalities, income redistribution, tax revenues, public choice, and fiscal federalism.

Spr ECON2480 S01 25655 TTh 2:30-3:50(11) (B. Knight)

2510 Economic Development I
This course covers issues related to labor, land, and natural resource markets in developing countries, in partial and general equilibrium settings. Topics covered include: The agricultural household model, under complete and incomplete market assumptions; household and individual labor supply, migration, self-employment, and the informal sector; rental market frictions and sharecropping arrangements; and environmental externalities (e.g., pollution, water usage, etc.), and sustainable development.

Spr ECON2510 S01 25901 TTh 9:00-10:20(08) (S. Nagavarapu)

2520 Economic Development II
This course deals with the economic analysis of institutions, with a particular focus on community-based institutions in developing countries. Institutions covered in this course includes cooperatives, ROSCAS, networks, marriage and the family.

Fall ECON2520 S01 15822 TTh 2:30-3:50(11) (K. Munshi)

2530 Behavioral and Experimental Economics
An introduction to the methodology of experimental economics with an emphasis on experiments designed to illuminate problems in organizational design and emergence of institutions, and experiments investigating the operation of social and social-psychological elements of preference such as altruism, inequality aversion, reciprocity, trust, concern for relative standing, envy, and willingness to punish norm violators. Experiments studied will include ones based on the prisoners’ dilemma, dictator game, ultimatum game, and especially the voluntary contribution mechanism (public goods game) and the trust game.

Spr ECON2530 S01 24703 MWF 11:00-11:50(04) (L. Putterman)

2630 Econometric Theory
Standard and generalized linear models, simultaneous equations, maximum likelihood, Bayesian inference, panel data, nonlinear models, asymptotic theory, discrete choice, and limited dependent variable models.

Spr ECON2630 S01 23680 MW 1:00-2:20(06) (F. Kleibergen)

2640 Microeconometrics
Topics in microeconometrics treated from a modern Bayesian perspective. Limited and qualitative dependent variables, selectivity bias, duration models, panel data.

Fall ECON2640 S01 14294 MW 1:00-2:20(06) (F. Kleibergen)

2660 Macroeconometrics I
Topics in Econometrics. The lecture consists of a number of influential articles in Econometrics on topics like GMM, Empirical Processes, Weak instruments, Non-and Semi-parametric regression, Bootstrap, Edgeworth approximation.

Fall ECON2660 S01 16043 MW 9:00-10:20(02) (S. Mavroeidis)

2830 Dynamic Optimization and Economic Growth
The role of human capital, income distribution, population growth, technological progress, and international trade in the determination of differences in growth performance across countries. Inequality and economic growth. Technological progress and wage inequality. The transition from stagnation to sustained growth. Evolution and growth.

Fall ECON2830 S01 13700 F 9:30-11:50(04) (O. Galor)

2840 Empirical Analysis of Economic Growth
Examines economic growth, focusing on the effects of technological change, fertility, income inequality, and government policy. ECON 2830 is strongly recommended.

Spr ECON2840 S01 25656 TTh 1:00-2:20(10) (D. Weil)

2930 Workshop in Applied Economics

Fall ECON2930 S01 12478 Th 4:00-5:20(13) Spr ECON2930 S01 21725 Th 4:00-5:20(16)

2950 Workshop in Econometrics

Fall ECON2950 S01 12485 M 4:00-5:20(13) Spr ECON2950 S01 21726 M 4:00-5:20(13)

2960 Workshop in Macroeconomics and Related Topics

Fall ECON2960 S01 12487 W 4:00-5:20(14) Spr ECON2960 S01 21727 W 4:00-5:20(14)

2970 Workshop in Economic Theory

Fall ECON2970 S01 12488 M 4:00-5:20(13) Spr ECON2970 S01 21728 M 4:00-5:20(13)

2971 Race and Inequality Seminar
This is a workshop primarily for graduate students and faculty in the Department of Economics where original research on issues of race and inequality are presented by external visitors, along with Brown faculty and graduate students. No course credit.

Fall ECON2971 S01 15207 T 4:00-5:20(13) Spr ECON2971 S01 25707 T 4:00-5:20(16)

2980 Reading and Research
Individual research projects. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course.

Fall; Spr
2990 Thesis Preparation
For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing a thesis.

Fall ECON2990 S01 12490 'To Be Arranged'
Spr ECON2990 S01 21699 'To Be Arranged'

Education
(Primarily for Undergraduates)

0400 The Campus on Fire: American Colleges and Universities in the 1960’s
Ole Miss, Berkeley, Columbia, and Kent State: just a few of the campus battlegrounds where conflicts over civil rights, the Vietnam War, and other major issues were fought in the 1960’s. Students consult primary and secondary sources about higher education’s role in these conflicts, and why the consequences of its involvement still linger today. Enrollment limited to 20 first year students. FYS WRIT

Fall EDUC0400 S01 10923 MWF 11:00-11:50(04) (L. Spehr)

0410 First Year Seminar
Enrollment limited to 20 first year students.

0410B Controversies in American Education Policy: A Multidisciplinary Approach
Introduces perspectives on education based in history, economics, sociology, and political science. Students engage foundational texts in each of these fields, using the insights gained to examine controversial issues in American education policy, including policies to address ethnic disparities in student achievement, test-based accountability, class-size reduction, and school choice. Enrollment limited to 20.

Spr EDUC0410B S01 25538 MWF 1:00-1:50(06)

0410D Brown v. Board of Education
Using sources in history, education, and law this course will explore the landmark Supreme Court case of Brown v. Board of Education which found school segregation unconstitutional and challenged the entire foundation of legal segregation. We will explore the legal, political, and social issues that culminated in Brown and examine the development and deployment of remedies, with particular emphasis on school integration and educational equity. We will consider the legacy of Brown and analyze its impact on the civil rights movement, schooling, law, and politics in the late twentieth century and consider its implications for the future. Enrollment limited to 20. DVPS WRIT

Spr EDUC0410D S01 24334 M 3:00-5:20(13) (T. Steffes)

0410E Empowering Youth: Insights from Research on Urban Adolescents
Together, we consider the design, analysis, and interpretation of research on youth in urban settings. In doing so, we examine the roles of power, privilege, and multiculturalism in research. In the experiential component of the course, students engage in fieldwork in a local school or community-based youth organization. As part of their fieldwork, students design and undertake a research project, thereby bridging theory with practice. Reserved for First Year students. Enrollment limited to 20 first year students. FYS DVPS WRIT

Spr EDUC0410E S01 23505 W 3:00-5:20(14) (D. Rivas)

0410F The Mind, Brain, and Education
What do the brain and body have to do with learning? How can research findings from the brain and biological sciences inform educational practices? This first-year seminar will involve discussion of current research from multiple disciplines (e.g., education, neuroscience, neurobiology, psychology) on topics such as brain development, stress, sleep, rhythms, and emotion/motivation. Mini-lectures will provide students with a basic appreciation of the brain and basic bioregulatory systems. Students will gain an understanding of methods for studying brain/behavior interactions and explore the implications of new biological/brain findings for learning and education during the preschool, elementary, middle-school, and high-school years. Enrollment limited to 20 first year students. FYS

Spr EDUC0410F S01 24932 T 4:00-6:20(16) (M. Lebourgeois)

0800 Introduction to Human Development and Education
Introduces the study of human development and education from infancy through young adulthood. Provides a broad overview of scientific understanding of how children develop and how research is generated in the field. Major topics include biological foundations, mind, cognition, language, emotion, social skills, and moral understanding based on developmental theories and empirical research. The educational implications of research on human development are discussed.

Fall EDUC0800 S01 10931 TTh 2:30-3:50(11) (J. Li)

0850 History of Intercollegiate Athletics
This team-taught course traces the changing place of intercollegiate athletics on the American college campus over the past 150 years. Topics examined include, among others, the relationship between academic and athletic pursuits; commercialization and professionalization; the role of the NCAA and of the media; the cult of the coach; and the significance of race, gender, and class, all viewed through the lenses of social, cultural, and economic history. Emphasis on critical reading, active participation in discussion, and developing research and writing skills. The course will meet twice weekly, sometimes as a whole and sometimes in smaller groups, to discuss readings, films, and guest presentations. Enrollment limited to 30 sophomores.

Spr EDUC0850 S01 23506 TTh 10:30-11:50(09) (L. Spehr)

0900 Fieldwork and Seminar in Secondary Education
Combines study of current educational issues with extensive fieldwork that allows the student to observe how these issues translate themselves into reality on a daily basis. Each student reads and discusses recent writing about educational history, theory, and practice, and observes a class in a local school for 32 hours. The final paper synthesizes reading and observations. Enrollment limited to 20.

Fall EDUC0900 S01 13754 M 3:00-5:20(13) (D. Bisaccio)

(For Undergraduates and Graduates)

1010 The Craft of Teaching
What is the "craft of teaching"? A wide variety of texts are used to investigate the complexity of teaching and learning. Considering current problems as well as reform initiatives, we examine teaching and learning in America from the perspectives of history, public policy, critical theory, sociology, and the arts. Weekly journals and reading critiques; final portfolio presented to the class.

Fall EDUC1010 S01 10932 Th 4:00-6:20(13)

1030 Comparative Education
National systems of formal education, over the past two centuries, have proliferated massively. International organizations, governmental and nongovernmental, have long promoted the universal provision of mass education as central goals in the modern way of life. At the same time, the way children are raised, and the kinds of adults they become, varies considerably. Comparative education seeks to explore this interplay of variety and uniformity. Enrollment limited to 40.

Spr EDUC1030 S01 25540 Th 9:00-10:20(08) (J. Modell)
1040 Sociology of Education
The eclectic sociological imagination is turned upon that crucial modern institution: education. Considers formal education as a contemporary institution and schools as organizations both in comparative perspective and in more microscopic ways. Asks what schools and schooling means to society and to children from different social and economic circumstances. Enrollment limited to 50.

Fall EDUC1040 S01 15723 MW 8:30-9:50(02) (J. Modell)

1060 Politics and Public Education
Who exercises power in public education? This course examines the key institutions (e.g. school districts, states, Congress, and the courts) and actors (e.g. parents, teachers, interest groups, and the general public) shaping American K-12 education in order to understand recent policy trends and their consequences for students. Major policies discussed include school finance, textbook adoption, school accountability, and school choice. Particular attention is given to the federal No Child Left Behind Act of 2001 and debates over its reauthorization. Previous coursework in American politics or public policy is suggested but not required.

Fall EDUC1060 S01 13571 TTh 10:30-11:50(09)

1070 Student Teaching
Provides no fewer than 180 hours of practice teaching and observation, equivalent to 6 semester hours of credit in institutions operating on a semester hour basis, and fulfills the supervised student teaching requirement for secondary school teaching certification in most states. Prerequisite: EDUC 2060. Restricted to students in the Undergraduate Teacher Education Program. S/NC.

1070A Student Teaching: English
S/NC.

Fall EDUC1070A S01 10933 'To Be Arranged' (L. Snyder)
Spr EDUC1070A S01 20714 'To Be Arranged' (L. Snyder)

1070B Student Teaching: History and Social Studies
S/NC.

Fall EDUC1070B S01 10934 'To Be Arranged' (M. Sigler)
Spr EDUC1070B S01 20715 'To Be Arranged' (M. Sigler)

1070C Student Teaching: Science
S/NC.

Fall EDUC1070C S01 10935 'To Be Arranged' (D. Bisaccio)
Spr EDUC1070C S01 20716 'To Be Arranged' (D. Bisaccio)

1080 Analysis of Teaching
A critical analysis of the activity of teaching, required to be elected concurrently by those students taking EDUC 1070, Student Teaching. Supports student teaching and emphasizes the analysis of teaching from several theoretical perspectives. May not be elected independently of EDUC 1070. S/NC.

1080A Analysis of Teaching: English
S/NC.

Fall EDUC1080A S01 10967 W 4:00-6:20(14) (L. Snyder)
Spr EDUC1080A S01 20719 W 4:00-6:20(14) (L. Snyder)

1080B Analysis of Teaching: History and Social Studies
S/NC.

Fall EDUC1080B S01 10972 W 4:00-6:20(14) (M. Sigler)
Spr EDUC1080B S01 20721 W 4:00-6:20(14) (M. Sigler)

1080C Analysis of Teaching: Science
S/NC.

Fall EDUC1080C S01 10986 W 4:00-6:20(14) (D. Bisaccio)
Spr EDUC1080C S01 20722 W 4:00-6:20(14) (D. Bisaccio)

1090 Adolescent Literature
Pending Approval. This course will present a general overview of the historical, socio-cultural, academic, and political issues that provide context for the use and availability of adolescent literature today. Particular attention is paid to issues of reading engagement for striving adolescent readers, issues of access to literacy through adolescent literature, ways that adolescent literature can be paired with the classics, and issues of censorship in American public school classrooms and public libraries. Several special guests from public schools, non-profit organizations, and libraries will join us literally and virtually to add to our perspectives on the debates surrounding adolescent literature.

Spr EDUC1090 S01 25542 M 3:00-5:20(13) (L. Snyder)

1100 Introduction to Qualitative Research Methods
Designed for sophomores or juniors concentrating in education studies, but also open to other undergraduates interested in qualitative research methods. Through readings, class exercises and discussions, and written assignments, examines issues related to the nature of the qualitative research methods that are commonly used in education, psychology, anthropology, and sociology. Enrollment limited to 20. Enrollment Limited to 20.

Spr EDUC1100 S01 20724 W 3:00-5:20(14) (J. Demick)

1110 Introductory Statistics for Education Research and Policy Analysis
Introduction to the key ideas underlying statistical and quantitative reasoning. A hands-on pedagogical approach utilizing examples from education research and public policy analysis. Topics include the fundamentals of probability, descriptive and summary statistics, statistical inference, bivariate and multivariate regression, correlation, and analysis of variance. Computer-based data analysis reinforces statistical concepts. Enrollment limited to 24.

Fall EDUC1110 S01 10988 TTh 2:30-3:50(11) (R. Cho)

1130 Economics of Education I
How do we attract good teachers to public schools? What are the economic returns to early-childhood intervention programs? These are just two examples of important education policy questions. This course introduces key concepts of microeconomic theory and uses them to analyze these and other policy questions. Organized around a structured sequence of readings. First year students require instructor permission. WRIT

Fall EDUC1130 S01 13728 MWF 10:00-10:50(03) (J. Tyler)

1150 Education, the Economy and School Reform
Changes in the economy have had dramatic negative consequences for those without a college degree. This seminar explores the impact of these changes on workplace organization and the demand for skills, on what is taught in schools, and on school reform. Prerequisites: Education and PP concentrators, EDUC 1130 and EDUC 1110 (or equivalent); Economics concentrators, ECON 1110 or ECON 1130, and ECON 1620. Enrollment limited to 20.

Spr EDUC1150 S01 23665 M 3:00-5:20(13) (R. Cho)

1160 Evaluating the Impact of Social Programs
Does a GED improve the earnings of dropouts? Do stricter gun laws prevent violent crime? Such "causal" questions lie at the heart of public policy decisions. This course examines both the difficulties involved in answering causal policy questions, and research designs that can overcome these difficulties. Prerequisite: EDUC 1110, POLS 1600, ECON 1630, SOC 1100 or equivalent. Enrollment limited to 32.

Spr EDUC1160 S01 20726 MW 8:30-9:50(02)

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Offered</th>
<th>Section</th>
<th>Days and Time</th>
<th>Instructor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC1200</td>
<td>History of American School Reform</td>
<td>Spr</td>
<td>S01</td>
<td>23663</td>
<td>MWF 11:00-11:50</td>
</tr>
<tr>
<td>EDUC1260</td>
<td>Emotion, Cognition, Education</td>
<td>Fall</td>
<td>14623</td>
<td>T 9:00-10:20</td>
<td>(J. Demick)</td>
</tr>
<tr>
<td>EDUC1270</td>
<td>Adolescent Psychology</td>
<td>Spr</td>
<td>20727</td>
<td>T 1:00-2:20</td>
<td>(D. Rivas)</td>
</tr>
<tr>
<td>EDUC1290</td>
<td>From Theory to Practice in Engaged Scholarship: Creating Community</td>
<td>Fall</td>
<td>15727</td>
<td>T 4:00-6:20</td>
<td>(K. Hefferman)</td>
</tr>
<tr>
<td>EDUC1340</td>
<td>The Psychology of Race, Class, and Gender</td>
<td>Fall</td>
<td>13572</td>
<td>T 1:00-2:20</td>
<td></td>
</tr>
<tr>
<td>EDUC1450</td>
<td>The Psychology of Teaching and Learning</td>
<td>Fall</td>
<td>15950</td>
<td>Th 4:00-6:20</td>
<td></td>
</tr>
<tr>
<td>EDUC1580</td>
<td>Policy Implementation in Education</td>
<td>Spr</td>
<td>S01</td>
<td>20729</td>
<td>TTh 10:30-11:50</td>
</tr>
<tr>
<td>EDUC1650</td>
<td>Academic Freedom on Trial: A Century of Campus Controversies</td>
<td>Fall</td>
<td>S01</td>
<td>20731</td>
<td></td>
</tr>
<tr>
<td>EDUC1710</td>
<td>History and Theories of Child Development</td>
<td>Fall</td>
<td>S01</td>
<td>14624</td>
<td>T 4:00-6:20</td>
</tr>
<tr>
<td>EDUC1740</td>
<td>Academic Freedom on Trial: A Century of Campus Controversies</td>
<td>Fall</td>
<td>S01</td>
<td>15724</td>
<td>MWF 2:00-2:50</td>
</tr>
<tr>
<td>EDUC1750</td>
<td>Contemporary Social Problems: Views from Human Development and</td>
<td>Spr</td>
<td>S01</td>
<td>24669</td>
<td>T 1:00-2:20</td>
</tr>
<tr>
<td>EDUC1850</td>
<td>Moral Development and Education</td>
<td>Fall</td>
<td>S01</td>
<td>13775</td>
<td>T 10:30-11:50</td>
</tr>
<tr>
<td>EDUC1860</td>
<td>Social Context of Learning and Development</td>
<td>Fall</td>
<td>S01</td>
<td>13775</td>
<td>T 10:30-11:50</td>
</tr>
</tbody>
</table>

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
of arts in teaching degree. (Credit related to EDUC 2070. No credit course.

2080A Analysis of Teaching: English
No credit course.

Fall EDUC2080A S01 11181 W 4:00-6:20(14) (L. Snyder)
Spr EDUC2080A S01 20826 W 4:00-6:20(14) (L. Snyder)

2080B Analysis of Teaching: History and Social Studies
No credit course.

Fall EDUC2080B S01 11182 W 4:00-6:20(14) (M. Sigler)
Spr EDUC2080B S01 20831 W 4:00-6:20(14) (M. Sigler)

2080C Analysis of Teaching: Science
No credit course.

Fall EDUC2080C S01 11184 "To Be Arranged" (D. Bisaccio)
Spr EDUC2080C S01 20828 "To Be Arranged" (D. Bisaccio)

2090 Literacy Across the Curriculum
Focuses on three major areas of pedagogy: literacy across the curriculum, special education, and teaching English Language Learners. Topics include: current theory and practice in the three areas, legal requirements for special education, planning for differentiated instruction, assessment and diagnosis of student skill levels, measuring and reporting student achievement, adapting content for ELLS, selecting and working with texts, and effective vocabulary instruction. Open to MAT students only. S/NC.

Sum EDUC2090 S01 60203 "To Be Arranged"

2110 Summer Practicum and Analysis
Introduces MAT students to elementary school students through work in a unique summer enrichment program for inner city Providence children: Summer Prep readings and seminar meetings focus on arts education; introductions to the teaching of literacy, math and science; curriculum and lesson planning; creating a community of learners; issues of diversity; and physical education. S/NC.

Sum EDUC2110 S01 60204 "To Be Arranged" (C. Shalaby)

2120 Practicum and Seminar in Elementary Education
Students participate in an elementary classroom for 2 1/2 days a week for 12 weeks, participating in all aspects of the school day. Students assume responsibility for individualized instruction, small groups and some daily routines. Examines topics in child development; race, class, ethnic and linguistic diversity; assessment; teaching and learning as well as topics arising from the experiences in classrooms. S/NC.

Fall EDUC2120 S01 11218 W 4:00-6:45(14) (C. Shalaby)
Spr EDUC2120 S01 25541 W 4:00-6:45(14) (C. Shalaby)

2140 Methods and Materials of Math, Science, and Technology
Using a developmental approach, students are introduced to the major concepts and teaching methods used in elementary math and science classrooms. S/NC.

Fall EDUC2140 S01 13689 F 12:30-3:30(06) (S. Dorr)
Spr EDUC2140 S01 20833 F 12:30-3:30(06) (S. Dorr)

2150 Language and Literacy in the Elementary School Classroom
An introduction to Comprehensive Literacy instruction in reading and writing, including strategies for teaching interactive read alouds; shared reading and shared writing; phonics and word work; independent reading workshop; guided reading; writer's notebooks; writing workshop; and children's literature via an author study. S/NC.

Fall EDUC2150 S01 11231 M 4:00-6:45(13) (M. Nosal)
Spr EDUC2150 S01 20834 M 4:00-6:45(13) (M. Nosal)
2270  Student Teaching and Analysis
Provides no fewer than 180 hours of student teaching and observation-equivalent to six semester hours of credit in institutions operating on a semester-hour basis and fulfills the supervised student teaching requirements for elementary school teaching certification in Rhode Island and in ICC member states. S/NC.
Fall EDUC2270 S01 14142 'To Be Arranged' (C. Shalaby)
Spr EDUC2270 S01 20835 'To Be Arranged' (C. Shalaby)

2280 Seminar: Principles of Learning and Teaching
A critical analysis of the activity of teaching, restricted to and required of students taking EDUC 2270. The course requires curriculum and lesson planning, reflective analyses of student learning and classroom teaching, and places learning and teaching in context with attention to issues of diversity of schools and their student bodies. S/NC.
Fall EDUC2280 S01 15726 W 4:00-6:45(14) (C. Shalaby)
Spr EDUC2280 S01 20836 W 4:00-6:45(14) (C. Shalaby)

2300 Structures and Systems in Urban Education
The aim of this course is to prepare future education policy leaders to understand, have the tools to investigate and be effective in the context of the many organizations that affect the well-being and ultimate success of urban students. Throughout the course, the city of Providence, along with nearby cities, will be a major "text."
Sum EDUC2300 S01 60205 'To Be Arranged' (W. Simmons)

2310 Introduction to Educational Research
Intensive six-week course designed to prepare future leaders in urban education policy with a fundamental understanding of basic concepts, techniques and strategies of social science research. The goal is for students to acquire skills and knowledge that enable them to inform the design, implementation and ultimate use of applied research in a policy setting and to appreciate its limitations.
Sum EDUC2310 S01 60206 'To Be Arranged' (E. Foley)

2320 Quantitative Research Methods and Data Analysis
The goal of this course is to provide students the Urban Education Policy course with a foundation and understanding of basic statistical analyses so that they will be able to design and carry out their own research and will be able to use data to inform education policy and practice.
Fall EDUC2320 S01 11238 TTh 9:00-10:20(08) (R. Cho)

2330 Urban Politics and School Governance
This course is a requirement for students of the MA in Urban Education Policy program. It deals with the political science and public policy central question of: How can public institutions be redesigned to improve accountability? Particular attention will be given to the governance and politics in urban public school systems.
Fall EDUC2330 S01 11239 W 3:30-5:20(14) (K. Wong)

2340 Human Development and Urban Education
In this course we will learn relevant theories and research in the academic field of Human Development to urban education practice and policy from preschools to high schools. Special emphasis will be placed in areas where there is research convergence and that are relevant to urban populations and settings. Recommended prerequisites: EDUC 0800 or EDUC 1710 or EDUC 1750.
Fall EDUC2340 S01 11246 Th 4:00-6:20(13) (C. Garcia Coll)

2350 Economics of Education II
Introduces students to the main economic theories and related applied work that inform education policy analysis. In so doing, the course combines economic theory, econometric studies, and education and institutional literature in an examination of current issues in U.S. education, particularly those issues that are most relevant to urban education. The course begins with examinations of key concepts and theories from microeconomics, labor economics, and public economics that are most relevant for studying questions in education. After laying this theoretical foundation the course then examines how these theories can illuminate and aid policy analysis around key topics in U.S. education. Open to graduate students only.
Spr EDUC2350 S01 20838 TTh 9:00-10:20(08) (J. Tyler)

2360 Policy Analysis and Program Evaluation for Education
Informed education policymaking requires reliable information about the causal effects of government programs and other factors shaping educational outcomes. This course offers an overview of education policy analysis with an emphasis on econometric strategies for measuring program impacts. It aims to make students critical consumers of policy evaluations and to equip them with tools to conduct their own research. Topics covered include the political context for policy research, social experiments, alternative strategies for making causal inferences, and cost-benefit analysis. Prerequisites: EDUC 1110, POLS 1600, SOC 1100, or written permission of the instructor.
Spr EDUC2360 S01 20839 TTh 2:30-3:50(11)

2370 Internship
Students in the Urban Education Policy Master's Program participate in year-long internships in organizations that focus on urban education policy. Each student works with his or her site supervisor to develop a job description for the internship that allows the student to learn from and contribute to the work of the host organization.
Fall EDUC2370 S01 11241 'To Be Arranged' (K. Wong)

2380 Internship
Students in the Urban Education Policy Master's Program participate in year-long internships in organizations that focus on urban education policy. Each student works with his or her site supervisor to develop a job description for the internship that allows the student to learn from and contribute to the work of the host organization.
Spr EDUC2380 S01 20837 'To Be Arranged' (K. Wong)

2980 Studies in Education
Independent study; must be arranged in advance. Section numbers vary by instructor. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course.
Fall, Spr

2990 Thesis Preparation
Fall EDUC2990 S01 13560 'To Be Arranged'
Spr EDUC2990 S01 20840 'To Be Arranged'

Fall XLIST  Courses of Interest to Concentrators in Education
The following related courses in Education Studies are offered. Please check with the sponsoring department for times and locations.

Anthropology
ANTH 1212 The Anthropology of Play
ANTH 1213 Cross-Cultural Perspectives on Education

English
ENGL 1110 Seminar in the Teaching of Writing

History
HIST 1972K Rethinking Society in Industrial America

Portuguese and Brazilian Studies
POBS 1600C Cross-Cultural Perspectives on Education: Education and the Portuguese-Speaking World

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
Egyptology and Ancient Western Asian Studies

Ancient Western Asian Studies

(Primarily for Undergraduates)

0200 Introduction to Akkadian
This course is the first semester of an intensive, yearlong introduction to the Akkadian language, first written down over four thousand years ago in Mesopotamia (present-day Iraq). Attested in two main dialects, Babylonian and Assyrian, Akkadian is the earliest known member of the Semitic family of languages. We will grapple with the intricacies of the cuneiform (“wedge-shaped”) writing system and master the Neo-Assyrian monumental script. Students will learn the fundamentals of the phonology, morphology, and grammar of the classical Old Babylonian dialect (ca. 1800 BCE) and read selections from the Laws of Hammurapi in the original language.

Fall AWAS0200 S01 14323 MW 12:00-12:50(12) (M. Rutz)

0210 Intermediate Akkadian
This course is the second semester of an intensive, yearlong introduction to the Akkadian (Babylonian/Assyrian) language. Students will deepen their knowledge of the cuneiform writing system and continue to develop their grasp of Akkadian grammar. Readings from Mesopotamian texts in the original language will include, among others, selections from the Laws of Hammurapi, Assyrian historical texts (such as the accounts of Sennacherib’s siege of Jerusalem), and the story of the Flood from the Standard Babylonian Epic of Gilgamesh. Prerequisite: Introduction to Akkadian (AWAS0200) or permission of the instructor.

Spr AWAS0210 S01 25456 MW 11:00-11:50(04) (M. Rutz)

0300 Babylon: Myth and Reality
From the Hanging Gardens of Babylon to the Tower of Babel to Babylon 5, the city of Babylon in ancient Iraq holds an important place in contemporary culture. But how much of what is commonly known of Babylon is true? In this course we will explore the ancient city of Babylon through its texts and archaeological remains and investigate the ways Babylon has been viewed over the past two thousand years. Enrollment limited to 20 first year students. FY S WRIT

Fall AWAS0300 S01 15642 TTh 2:30-3:50(11) (J. Steele)

(For Undergraduates and Graduates)

1500 Ancient Babylonian Magic and Medicine
Pending Approval. A survey of ancient magic and medical practice in Mesopotamia (present-day Iraq, ca. 2500-300 BCE), with an emphasis on beliefs about the body, health, illness, and the causes of disease, such as witchcraft or angry gods. Topics will include the training of healers, exorcists, and herbalists; concepts of contagion and plague, modalities of treatment, incantations, prayers, and empirical remedies like prescriptions; ancient perceptions of problems like sexual dysfunction, the perils of pregnancy, tooth decay, epilepsy, and mental illness. Readings will be drawn from ancient texts (in translation), archaeology, and parallels with ancient Egypt, Greece, Rome, and the Bible. No prerequisites. WRIT

Spr AWAS1500 S01 25464 W 3:00-5:20(14) (M. Rutz)

1600 Astronomy Before the Telescope
This course provides an introduction to the history of astronomy from ancient times down to the invention of the telescope, focusing on the development of astronomy in Babylon, Greece, China, the medieval Islamic world, and Europe. The course will cover topics such as the invention of the zodiac, cosmological models, early astronomical instruments, and the development of astronomical theories. We will also explore the reasons people practiced astronomy in the past. No prior knowledge of astronomy is necessary for this course.

Fall AWAS1600 S01 15637 TTh 10:30-11:50(09) (J. Steele)

1700 Astronomy, Divination and Politics in the Ancient World
This course will explore the relationship between astronomy, divination and politics in the ancient world. The sky provided ancient cultures with many possibilities for observing occurrences that could be interpreted as omens. In many cultures, celestial omens were directed towards the king and his government. As a result, interpreting and controlling celestial omens became an important political activity. In this course, we will explore how and why astronomical events were used politically in ancient Mesopotamia, the Greco-Roman world, and ancient and medieval China. No prior knowledge of astronomy is necessary for this course. WRIT

Spr AWAS1700 S01 25458 TTh 10:30-11:50(09) (J. Steele)

(Primarily for Graduates)

2310 Ancient Scientific Texts
Readings and analysis of a major scientific text in Akkadian, Arabic, Greek, Latin, or Sanskrit. May be repeated with a different text.

2310A Ancient Scientific Texts: Akkadian
Readings and analysis of a major scientific text in Akkadian. Prerequisite: HMAT 0200 or 0210 or AWAS 0200 or 0210; permission of the instructor.

Spr AWAS2310A S01 24238 "To Be Arranged" (J. Steele)

2600 Topics in Cuneiform Studies
Pending Approval. Advanced readings in Akkadian and Sumerian cuneiform texts in the original script and language(s). The focus of this course will be on the close reading of a specific genre, period, and/or dialect. A rotating cycle of topics to be covered may include the following with a synchronic and/or diachronic approach: historical texts and royal inscriptions, legal and administrative texts, letters, literary and religious texts, medical texts, or scholastic texts. May be repeated for credit. Prerequisite: Intermediate Akkadian (AWAS0210) or permission of the instructor.

Fall AWAS2600 S01 15643 "To Be Arranged" (M. Rutz)

2980 Reading and Research
Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course.

Fall; Spr

2990 Thesis Preparation
For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing a thesis.

Fall AWAS2990 S01 14326 "To Be Arranged"
Spr AWAS2990 S01 24241 "To Be Arranged"

Fall XLIST Courses of Interest to Concentrators in Ancient Western Asian Studies
The following courses may be of interest to Ancient Western Asian Studies concentrators. Please see the sponsoring department for the time and location of each course.

Institute for Archaeology and the Ancient World
ARCH 0445 Archaeology of the Bible

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
Africa
ARCH 1200I Material Worlds: Art and Agency in the Near East and Africa
ARCH 1635 The Great Heresy: Egypt in the Amarna Age
ARCH 2300 The Rise (and Demise) of the State of the Near East
ARCH 2400 Archaeologies of Place

Egyptology

(For Undergraduates and Graduates)

1310 Introduction to Classical Hieroglyphic Egyptian Writing and Language (Middle Egyptian I)
Much of this two-semester sequence is spent learning the signs, vocabulary, and grammar of one of the oldest languages known. By the end of this introductory year, students read authentic texts of biographical, historical, and literary significance. The cornerstone course in the Department of Egyptology-essential for any serious work in this field and particularly recommended for students in archaeology, history, classics, and religious studies. No prerequisites.

Fall EGYT1310 S01 11625 MWF 10:00-10:50(03) (J. Allen)

1320 Introduction to Classical Hieroglyphic Egyptian Writing and Language (Middle Egyptian II)
Continuation of a two-semester sequence spent learning the signs, vocabulary, and grammar of one of the oldest languages known. By the end of this introductory year, students read authentic texts of biographical, historical, and literary significance. The cornerstone course in the Department of Egyptology-essential for any serious work in this field and particularly recommended for students in archaeology, history, classics, and religious studies. Prerequisite: EGYT 1310.

Spr EGYT1320 S01 21238 MWF 10:00-10:50(03) (J. Allen)

1330 Selections from Middle Egyptian Hieroglyphic Texts
Readings from the various genres of classical Egyptian literature, including stories and other literary texts, historical inscriptions, and religious compositions. Students will be expected to translate and discuss assigned texts. Prerequisite: EGYT 1310, 1320.

Fall EGYT1330 S01 15625 TTh 1:00-2:20(10) (J. Allen)

1410 Ancient Egyptian Literature
A survey of one of the most intriguing aspects of ancient Egyptian culture. Readings (in translation) of many of the most significant literary documents that survive from Egypt. Presentation of a reasonable amount of historical perspective. Class discussions concerning the nature, purpose, quality, and effectiveness of the works read. Two term papers. No prerequisites. Offered in alternate years. WRIT

Spr EGYT1410 S01 25440 MWF 9:00-9:50(02) (L. Depuydt)

1420 Ancient Egyptian Religion and Magic
An overview of ancient Egyptian religion from both a synchronic and diachronic perspective. Examines such topics as the Egyptian pantheon, cosmology, cosmogony, religious anthropology, personal religion, magic, and funerary beliefs. Introduces the different genres of Egyptian religious texts in translation. Also treats the archaeological evidence which contributes to our understanding of Egyptian religion, including temple and tomb architecture and decoration. Midterm and final exams; one research paper. WRIT

Spr EGYT1420 S01 25443 TTh 9:00-10:20(08) (J. Allen)

1470 Egypt After the Pharaohs: Archaeology and Society in the Coptic and Early Islamic Periods
The history of Egypt may be famous for the tombs, pyramids and mummies of the Pharaonic periods. This course, however, offers a vision of a different Egypt, a later Egypt: one that evolved from the traditions of the past but was infused by Christianity, Islam, Arabic, and the emergence of one of the world’s great cities: Cairo. Students will experience the heritage of Egypt that is contained in the mosque of al-Azhar, the monasteries of the Egyptian desert, and the pageantry and ritual of a new set of ruling elites. At the same time they will understand the continuities of this land which Egyptians refer to as Umm al-Duniya “Mother of the World”.

Fall EGYT1470 S01 15629 TTh 9:00-10:20(08) (I. Straughn)

1500 Ancient Egyptian Art and Architecture
Ancient Egyptian art and architecture had a remarkably long history, and much of this was produced is amazingly well preserved. This course will focus on the inception and development of these material expressions of high culture through detailed studies of monumental buildings and decorated private tombs, as well as the sculpture, painting, and minor arts from the Predynastic period through the end of the Middle Kingdom (c. 3700-1790 BC).

Spr EGYT1500 S01 25444 M 3:00-5:20(13) (L. Bestock)

1910 Senior Seminar
Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor’s permission required.

Fall

1920 Senior Seminar
Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor’s permission required.

Spr

(Primarily for Graduates)

2410 Late Egyptian
Introduction to the grammar of the third historical phase of ancient Egyptian and readings from its various genres, including literary texts, letters, historical inscriptions, and tomb-robbing papyri. Students will be expected to translate and discuss assigned texts. Prerequisites: EGYT 1310, 1320.

Spr EGYT2410 S01 23475 ‘To Be Arranged’ (L. Depuydt)

2970 Preliminary Examination Preparation
For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing for a preliminary examination.

Fall EGYT2970 S01 11626 ‘To Be Arranged’
Spr EGYT2970 S01 21239 ‘To Be Arranged’

2980 Reading and Research
Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course.

Fall; Spr

2990 Thesis Preparation
For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing a thesis.

Fall EGYT2990 S01 11627 ‘To Be Arranged’

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
An introduction to journalistic writing that focuses on techniques of investigation, reporting, and feature writing. Uses readings, visiting journalists, and field experience to address ethical and cultural debates involving the profession of journalism. Writing assignments range from news coverage of current events to investigative feature articles. Writing sample required. Class list will be reduced to 17 after writing samples are reviewed during the first week of class. Enrollment limited to 17. Banner registrations after classes begin require instructor approval. S/NC.

Spr ENGL0160 S01 11416 MW 3:00-4:20(13)
Fall ENGL0160 S02 11476 TTh 9:00-10:20(08)
Spr ENGL0160 S01 21072 MW 6:30-9:50(02)

0180 Introduction to Creative Nonfiction
Designed to familiarize students with the techniques and narrative structures of creative nonfiction. Reading and writing focus on personal essays, memoir, science writing, travel writing, and other related subgenres. May be used as preparation for ENGL1180. Writing sample may be required. Enrollment limited. Banner registrations after classes begin require instructor approval. S/NC.

Sum ENGL0180 S01 60292 MTWTh 4:00-6:00 (L. Sarat)
Fall ENGL0180 S01 11417 MW 9:00-9:50(02)
Fall ENGL0180 S02 11477 MW 9:00-9:50(02)
Fall ENGL0180 S03 11478 MW 9:00-9:50(02)
Fall ENGL0180 S04 11479 MW 1:00-1:50(06)
Fall ENGL0180 S05 11480 TTh 9:00-10:20(08)
Spr ENGL0180 S01 21073 MW 9:00-9:50(02)
Spr ENGL0180 S02 21074 MW 10:00-10:50(03)
Spr ENGL0180 S03 21075 MW 12:00-12:50(05)
Spr ENGL0180 S04 21076 MW 1:00-1:50(06)
Spr ENGL0180 S05 23220 TTh 9:00-10:20(08)
Spr ENGL0180 S06 23221 TTh 9:00-10:20(08)
Spr ENGL0180 S07 23662 TTh 1:00-2:20(10)
Spr ENGL0180 S08 23839 MW 9:00-9:50(02)
Spr ENGL0180 S09 24520 MW 2:00-2:50(11)

0200 Seminars in Writing, Literatures, and Cultures
Offers students a focused experience with reading and writing on a literary or cultural topic. Requires 18-20 pages of finished critical prose dealing with the literary, cultural, and theoretical problems raised. Course goal is to improve students’ ability to perform close reading and textual analysis. May count as elective credit toward the concentration in English, but may not be used toward fulfillment of the four-course focus or the theory or scholarly area requirements. Enrollment limited to 17.

Fall ENGL0200F S01 15429 MW 9:00-9:50(02) (K. Miller)

0200G Ships at a Distance: Wandering, Exile and Identity in African American and Afro-Caribbean Literature
Envision the coasts of Africa, the villages of the Caribbean, the fields of the South, and the cities of the North. This course explores the literature of exile and migration between and within Africa, Europe, and the Americas to examine how such movement influences individual, familial, national, and diasporic identity. Authors include Delany, McKay, Larsen, Lamping, Toomer, Morrison, Walcott, Marshall, and Danticat. Enrollment limited to 17 undergraduate students. DVPS LILE

Spr ENGL0200G S01 25179 MW 11:00-11:50(04) (S. Ford)

0200P On Vampires and Violent Vixens: Making the Monster through Discourses of Gender and Sexuality

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
Though we typically understand monsters as evil enemies of a stable human society, monster texts often blur distinctions between hero and villain, monster and human. This course will examine how and why monsters are producted in various forms of fiction. We will analyze how villain, monster and human. This course will examine how and why human society, monster texts often blur distinctions between hero and Though we typically understand monsters as evil enemies of a stable

doesn't work" and of its aesthetic, ethical, and political implications for

Enrollment limited to 17 undergraduate students. LILE

transcendent experience in poetry, novels, short stories, and essays. Transcendentalist literary representations of heightened perception, political and philosophical dimensions of prophetic rhetoric and apocalyptic vision, and altered consciousness. It considers the literary, philosophical and political dimensions of prophetic rhetoric and transcendent experience in poetry, novels, short stories, and essays. Reading include Ezekiel, Blake, Mary Shelley, Percy Shelley, Barbauld, Carlyle, Martin Delany, Emerson, and H.G. Wells. Enrollment limited to 17 undergraduate students. LILE

Spr ENGL0200W S01 25180 MWF 12:00-12:50(05) (S. Pfaff)

0200X Apocalypse and Consciousness: Prophetic Literature in the 19th Century
This course examines 19th-century Romantic, Victorian, and Transcendentalist literary representations of heightened perception, apocalyptic vision, and altered consciousness. It considers the literary, philosophical and political dimensions of prophetic rhetoric and transcendent experience in poetry, novels, short stories, and essays. Reading include Ezekiel, Blake, Mary Shelley, Percy Shelley, Barbauld, Carlyle, Martin Delany, Emerson, and H.G. Wells. Enrollment limited to 17 undergraduate students. LILE

Spr ENGL0200X S01 25181 MWF 1:00-1:50(06) (J. Mulligan)

0200Y Heathcliff in America: Masculinity, Violence and Intimate Conflict in 20th-Century Literature
Where does America's fascination with violent, volatile males come from? This class will explore the origins of this romantic figure in the nineteenth century, taking Wuthering Heights as a founding text of "intimate conflict." Our focus is on 20th-century U.S. works in which the Heathcliff model is played out in dramas of nationality and identity. Readings include Williams, Wright, Selby, Albee, Allison, Palahniuk. Enrollment limited to 17 undergraduate students. LILE

Spr ENGL0200Y S01 25182 MWF 2:00-2:50(07) (D. Liao)

0200Z Utterable Failures: Unworkability in the Modern and Postmodern Writing
What can we make of literary and visual works that seek to represent failure—or of works that audiences call failures? A survey of work that "doesn't work" and of its aesthetic, ethical, and political implications for contemporary culture. Texts include Melville, Kafka, Stein, Beauvoir, Beckett, Warhol, and North American L-A=N=G=U=A=G=E writing. Screening of Synecdoche, New York. Enrollment limited to 17 undergraduate students. LILE

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
0400C Matters of Romance
Narratives (1100-1500) of men, women, and elves seeking identity on the road, in bed, and at court. Readings (in modern English) include Arthurian romances, *Havelok*, *lais* by Marie de France, and Chaucer's "Wife of Bath's Tale." Primarily for freshmen and sophomores. Students should register for ENGL 0400C S01 and may be assigned to conference sections by the instructor during the first week of class.

Spr ENGL0400C S01 25151 MWF 10:00-10:50(03) (E. Bryan)

0410 Introductory General Topics in the Enlightenment and the Rise of National Literatures and Cultures
These introductory general topics courses are designed to give students a coherent sense of the literary history and the major critical developments during a substantial period covered by the department's Area II research field: The Enlightenment and the Rise of National Literatures and Cultures. English concentrators are encouraged to take at least one of these courses to apply to the Area II English concentration requirements.

0410F Devils, Demons, and Do Gooders
Who hasn't struggled with the problem of good and evil? Who hasn't wondered what lurks in the dark recesses of the soul? We will investigate how Milton, Mary Shelley, Melville, Poe, and Hawthorne, among others, grapple with these fundamental questions of judgment. Students should register for ENGL 0400F S01 and may be assigned to conference sections by the instructor during the first week of class.

Spr ENGL0410F S01 25154 MWF 10:00-10:50(03) (J. Egan)

0410G Literature and Revolutions, 1640-1840
Key developments in British and American literature understood in relation to the historical and cultural forces that produced the English Revolution, the American Revolution, the French Revolution, and the Industrial Revolution. Readings in major writers such as Milton, Paine, Blake, Wollstonecraft, Emerson, Barrett Browning, and Dickens, and in some of their non-canonical contemporaries. Focus on the emergence of a transatlantic literary culture. WRIT

Spr ENGL0410G S01 23942 TTh 1:00-2:20(10) (W. Keach)

0410K The Transatlantic Novel: Robinson Crusoe to Connecticut Yankee
This course reexamines the rise and development of the "American" novel by reading literary and cultural history across national boundaries. Its main areas of investigation include imperial fantasies of the New World, diasporic movements, race and slavery, and modern capitalist culture. Writers include Defoe, Behn, Crevecoeur, Susanna Rowson, Hawthorne, and Twain. Students should register for ENGL0410K S01 and may be assigned to conference sections by the instructor during the first week of class.

Fall ENGL0410K S01 15430 MWF 10:00-10:50(03) (P. Gould)

0450 Introductory Seminars in the Enlightenment and Rise of National Literatures and Cultures
First-year seminars limited to 20 students. FYS

0450A Hawthorne and James
An introduction to a pair of writers whose work continues to shape our understanding of American literature and American identity. Focusing on much of their most important work, our aim will be to understand how their conceptions of the relationship between writing and history both complicate and complement each other. Limited to 20 first-year students. FYS LILE WRIT

Fall ENGL0450A S01 15400 MWF 11:00-11:50(04) (S. Burrows)

0450E Inventing America
One of the distinguishing features of American literature may be its seemingly constant struggle with the idea of America itself. For what, these authors wonder, does/should America stand? We will examine the rhetorical battles waged in some major works of American literature over the meaning and/or meanings of our national identity. Authors include Franklin, Hawthorne, Melville, and Fitzgerald. Limited to 20 first-year students. FYS LILE WRIT

Fall ENGL0450E S01 15846 MWF 1:00-1:50(06) (S. Burrows)

0600 Introductory Topics in the Enlightenment and the Rise of National Literatures and Cultures

0600E British Romanticism
Readings in British Romantic writing, canonical and noncanonical, emphasizing how historical and political change, philosophical disposition, and subjective consciousness become articulated in verse and prose. Literary representations of and responses to the French Revolution, the Industrial Revolution, the struggle against black slavery, Blake, Wollstonecraft, Olaudah Equiano, William Wordsworth, Dorothy Wordsworth, Coleridge, Percy Shelley, Mary Shelley, Byron, Keats, Clare. WRIT LILE

Fall ENGL0600E S01 14018 TTh 1:00-2:20(10) (W. Keach)

0600L The Simple Art of Murder
A survey of the history of criminal enterprise in American literature. Authors to be considered include Poe, Melville, Hawthorne, Twain, Chandler, Wright, Petry, Highsmith, Millar, Harris, and Mosley. Students who have taken ENGL0450D may not register for this course. Students should register for ENGL0600L S01 and may be assigned to conference sections by the instructor during the first week of class.

Spr ENGL0600L S01 25186 MWF 1:00-1:50(06) (D. Nabers)

0600M Madness and Enlightenment: Literature 1660-1800
The term "enlightenment" has been used to emphasize the power of reason in the development of intellectual freedom, democracy, capitalism, class mobility, and other aspects of 18th-century experience. However, the period's major writers were fascinated by unreason, by aberrant states of mind from love melancholy to outright madness. Readings include Swift's *Tale of a Tub*, Pope's *Dunciad*, Johnson's *Rasselas*, Sterne's *Tristram Shandy*, Boswell's *Hypochondriack*, and Godwin's *Caleb Williams*.

Spr ENGL0600M S01 25190 TTh 10:30-11:50(09) (M. Rabb)

0610 Introductory General Topics in Modern and Contemporary Literatures and Cultures
These introductory general topics courses are designed to give students a coherent sense of the literary history and major critical developments during a substantial portion of the period covered by the department's Area II research field: Modern and Contemporary Literatures and Cultures. English concentrators are encouraged to take at least one of these courses to apply to the Area II English concentration requirements.

0610D Introduction to Asian American Literature
This course is intended to familiarize students with key issues that have shaped the study of Asian American literature and to provide a sense of the historical conditions out of which those works have emerged. As a literature course, it will focus on textual analysis—on how particular texts give representational shape to the social, historical and psychological experiences they depict. Readings consists primarily of works that have a canonical status within Asian American literary studies but also include newer works that suggest new directions in the field. It also strives to provide some coverage of the major ethnic groups. DVPS

Spr ENGL0610D S01 25157 TTh 9:00-10:20(08) (M. Rabb)

0610E Postcolonial Literature
Examines fiction, drama, poetry, travel writing, and cultural theory by contemporary writers from former colonies of the British Empire. We study works by Anglophone African, Caribbean, and South Asian

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
writers. Issues include: nationalism and globalization; cultural identity and diaspora; individual interiority and collective aspirations; literary form and the very idea of "postcolonial" literature. Authors include: J. M. Coetzee, Amitav Ghosh, V. S. Naipaul, Michael Ondaatje, Caryl Phillips, Derek Walcott, Zóbi Wicomb. DVPS

Fall ENGL0610E S01 14019 MWF 11:00-11:50(04) (O. George)

0610J Contemporary British Fiction
This course covers the euphoric parochialism of the post-War years, the social polarization of Thatcherism, and the multicultural inclusiveness of the New Labour period. It is intended as an introduction to theories of culture, ideology and literary form, as well as an overview of some of the most important British writers of the second half of the last century, including both Amises, Ishiguro, Hollinghurst, Kelman, Spark, Naipaul, Smith. Students should register for ENGL 0610J S01 and may be assigned to conference sections by the instructor during the first week of class.

Fall ENGL0610J S01 15401 MWF 10:00-10:50(03) (T. Bewes)

0610K 20th-Century Literatures in English
This course offers a broad introduction to a range of literatures written in English, tracing shifts in the formal conventions of fiction and poetry. We examine ongoing debates about what literature is and what social role it plays. We consider how these debates respond to historical changes such as industrialization, the collapse of global empires, and movements for social equality. Writers include Dreiser, Woolf, Eliot, Hughes, Toomer, Cather, Morrison, Hwang, Rushdie. Students should register for ENGL 0610K S01 and will be assigned to conference sections by the instructors during the first week of class. DVPS LILE

Fall ENGL0610K S01 14049 MWF 11:00-11:50(04) (E. Katz)

0650 Introductory Seminars in Modern and Contemporary Literatures and Cultures
First-year seminars limited to 20 students. FYS

0650H Realism and Modernism
The novel as a genre has been closely identified with the act of representation. What it means to represent "reality," however, has varied widely. This seminar will explore how the representation of reality changes as modern fiction questions the assumptions about knowing, language, and society that defined the great tradition of realism. Limited to 20 first-year students. Banner registration after classes begin requires instructor approval. FYS LILE

Fall ENGL0650H S01 11419 MWF 10:00-10:50(03) (P. Armstrong)

0650M Believers, Agnostics, and Atheists in Contemporary Fiction (JUDS 0050A)
Interested students MUST register for JUDS 0050A S01 (CRN 14060).

0800 Introductory Special Topics in Modern and Contemporary Literatures and Cultures

0800B African American Literature and the Legacy of Slavery
Traces the relationship between the African American literary tradition and slavery from the antebellum slave narrative to the flowering of historical novels about slavery at the end of the twentieth century. Positions these texts within specific literary, historical, and political frameworks. Authors may include Frederick Douglass, Harriet Jacobs, Charles Chesnutt, Octavia Butler, and Toni Morrison. Students should register for ENGL 0800C S01 and may be assigned to conference sections by the instructor during the first week of class. DVPS

Fall ENGL0800B S01 15405 TTh 10:30-11:50(09) (R. Murray)

0800C Writing War
Examines the challenges that war poses to representation, and particularly to language and literary expression in the modern era. We will focus primarily on the First and Second World Wars, exploring the specific pressures war puts on novels and poetry, as well as on history, psychology, and ethics. Works by Sassoon, Owen, Hemingway, Woolf, Rebecca West, Graham Greene, Pat Barker, Tim O'Brien, Georges Perec. Students MUST register for a conference, and a lecture section. Instructor’s permission required.

Spr ENGL0800C S01 25158 MWF 11:00-11:50(04) (R. Reichman)

0910 Introductory Special Topics in Literatures and Cultures in English

0910E Holocaust Literature (JUDS 0390)
Interested students must register for JUDS 0390 S01 (CRN 15666).

(For Undergraduates and Graduates)

1140 Critical Reading and Writing III: Topics in Literary and Cultural Criticism
For advanced writers. Situates rhetorical theory and practice in contexts of cutting-edge literary, cultural, and interdisciplinary criticism, public discourse, and public intellectual debate. Individual sections explore one or more of the following subgenres: rhetorical criticism, hybrid personal-critical essays, case studies, legal argument and advocacy, documentary, satire, commentaries, and review essays. Writing sample required. Prerequisite: ENGL 0130, 0160, or 0180. Class list will be reduced to 12 after writing samples are reviewed during the first week of classes. Preference will be given to English concentrators. S/NC.

1140A The Literary Scholar
For the advanced writer. This course centers its literary inquiries on creative poetics. From this critical perspective, we will examine the histories of literary criticism (Wimsatt, Brooks, et alii), literary theory (Saussure, Foucault, Derrida, et alii), and English literature (from Beowulf to Philip Larkin); we will look at reader response theory, stylistics, literary linguistics, rhetorical theory, and philology. Writing will emerge from critical reading but will not be constrained by it and hence will range from reforming conventional literary critical discourse to experimenting with nontraditional forms. Prerequisite: ENGL 0130, 0160, or 0180. Class list will be reduced to 12 after writing samples are reviewed during the first week of classes. Preference will be given to English concentrators. Banner registrations after classes begin require instructor approval. S/NC.

Spr ENGL1140A S01 21020 MWF 1:00-1:50(06) (L. Stanley)

1140B The Public Intellectual
This course offers advanced writers an opportunity to practice sophisticated, engaged critical writing in academic, personal, and civic modes. Emphasis will be on writing "public" essays (general audience essays that do intellectual work or academic essays that address public topics), ideally in fluid, "hybrid," audience-appropriate forms. Areas of investigation will include (but are not limited to) the review essay, the cultural analysis essay, literary documentary, and the extended persuasive/analytic essay. It will include some brief "touchstone" investigations into rhetorical theory, with the aim of helping to broaden our concepts of audience, analyze the constitutive and imaginative effects of language, increase the real-world effectiveness of our own language practices, and situate our writing within current political, cultural, aesthetic and intellectual debates. Students must have sophomore standing or higher in order to be admitted to the class. A writing sample will be administered on the first day of class. Prerequisite: ENGL 0130, 0160, or 0180. Class list will be reduced to 12 after writing samples are reviewed during the first week of classes. Preference will be given to English concentrators. Banner registrations after classes begin require instructor approval. S/NC.

Spr ENGL1140B S01 21021 W 3:00-5:20(14) (C. Imbriglio)
1160 Special Topics in Journalism
Class list will be reduced after writing samples are reviewed during the first week of classes. Preference will be given to English concentrators. Enrollment limited to 17.

1160A Advanced Feature Writing
For the advanced writer. Nothing provides people with more pleasure than a "good read." This journalism seminar helps students develop the skills to spin feature stories that newspaper and magazine readers will stay with from beginning to end, both for print and on-line publications. Students will spend substantial time off-campus conducting in-depth interviews and sharpening their investigative reporting skills. The art of narrative storytelling will be emphasized. Prerequisite: ENGL0160 or published clips submitted before the first week of classes. Class list will be reduced to 17 after writing samples are reviewed. Preference will be given to English concentrators. Banner registrations after classes begin require instructor approval. S/NC.

Spr ENGL1160A S01 21022 T 4:00-6:20(16)

1160B Editors/Producers
On-site workshop for editors/producers of campus or local journalism that aspires to professional standards. Students must be chosen by peers to edit a campus publication such as the BDH, or to produce a radio show at WBSR or WBRU; or they must have an internship at a local newspaper, radio or TV station. Required: Minimum 20 hours a week editing/producing; participation in skill-building workshops for staff. All issues/shows evaluated. Enrollment limited to 17. Instructor permission required. S/NC.

Fall ENGL1160B S01 15407 'To Be Arranged' (E. Taylor)

1160C Radio Nonfiction
For advanced writers only. Introduction to radio writing and producing. Students find and research stories, interview, draft, edit and fine-tune for radio presentation. Genres include news, profile, feature and personal narratives, editorial and review. Weekly labs focus on recording equipment, digital editing and mixing, and music use. Final project: half-hour radio feature ready for broadcast. Preference given to students who have taken ENGL0160, advanced nonfiction writing courses. English concentrators, or students who have worked at WBSR or WBRU. A writing sample will be administered on the first day of class. Class list will be reduced to 17 after writing samples are reviewed. S/NC.

Fall ENGL1160C S01 15408 M 3:00-5:20(13) (E. Taylor)

1160D The Common Critic
For the advanced writer. Aimed at the cultivated consumer of books, magazines and newspapers--what has traditionally been called the common reader. Students will attend films, plays, art shows, concerts or dance performances and write weekly reviews based on these experiences. Readings include Orwell, Woolf, Shaw, Kael, Tynan, Clive James, Zbigniew Herbert, and current reviews. Writing sample submitted at first class; also a previous sample, if possible, submitted at the same time. Class list will be reduced to 12 after writing samples are reviewed during the first week of classes. Banner registrations after classes begin require instructor approval. S/NC.

Fall ENGL1160D S01 11421 Th 4:00-6:20(13) (R. Eder)

1180 Special Topics in Creative Nonfiction
Writing sample required. Prerequisite: ENGL 0130, 0160, 0180, 1140, 1160, 1180, or 1190. Class list will be reduced to 17 after writing samples are reviewed during the first week of classes. Preference will be given to English concentrators. S/NC.

1180G Lyricism and Lucidity
For the advanced writer. This course will explore two subsets of the personal essay that blur or cross boundary lines—the lyric essay and the photographic essay—in both traditional and experimental formats.

Writing sample required. Prerequisite: ENGL 0130, 0160, 0180, or any 1000-level nonfiction writing course. Class list will be reduced to 17 after writing samples are reviewed during the first week of classes. Preference will be given to English concentrators. Banner registrations after classes begin require instructor approval. S/NC.

Spr ENGL1180G S01 21023 TTh 10:30-11:50(09) (C. Imbriglio)

1180K The Art of Literary Nonfiction
For the advanced writer. Based on Roland Barthes’ notion of the fragment, this workshop features an incremental, literary approach to writing nonfiction, in both traditional and experimental formats. In response to daily assignments, students will produce numerous short pieces and three extended "essays," to be gathered into a chapbook at the end of the course. Writing sample required. Prerequisite: ENGL 0130, 0160, 0180, or any 1000-level nonfiction writing course. Class list will be reduced to 17 after writing samples are reviewed during the first week of classes. Preference will be given to English concentrators. Banner registrations after classes begin require instructor approval. S/NC.

Fall ENGL1180K S01 11422 MWF 2:00-2:50(07) (C. Imbriglio)

1180M Special Delivery: Letters and Diaries
For the advanced writer. While letters and diaries are constrained by "what-really-happened"—the writer’s informal situation in time—they often form the basis of more formal communications, including the novel. We will keep diaries as self-conscious intellectual enterprises and write letters to address their roles in various literary modes. The final project will be an epistolary essay incorporating structures and motifs from both sub-genres. Writing sample required. Prerequisite: ENGL 0130, 0160, or 0180, or instructor permission. Class list will be reduced to 17 after writing samples are reviewed during the first week of classes. Preference will be given to English concentrators. Banner registrations after classes begin require instructor permission.

Spr ENGL1180M S01 25161 F 3:00-5:20(15)

1180P Further Adventures in Creative Nonfiction
For the advanced writer. A workshop course for students who have taken ENGL 0180 or the equivalent and are looking for further explorations of voice and form. Work can include personal essays, literary journalism and travel writing. Readings from Ian Frazier, Joan Didion, David Sedaris, John McPhee and others. Writing sample required. Prerequisite: ENGL 0130, 0160, or 0180, or any 1000-level nonfiction writing course. Class list will be reduced to 17 after writing samples are reviewed during the first week of classes. Preference will be given to English concentrators. Banner registrations after classes begin require instructor approval. S/NC.

Fall ENGL1180P S01 14600 TTh 2:30-3:50(11)

1180R Travel Writing: Personal and Cultural Narratives
For the advanced writer. Helps students build skills in the growing genre of travel writing, including techniques for reading, observing, interviewing, composing, and revising travel pieces. Students will read the best contemporary writing about national and international travel in order to develop their own writing in areas like narrative, setting, characters, and voice. The course will feature interactive discussions, instructor conferences, and workshops. Prerequisite: ENGL 0130, 0160, 0180, or any 1000-level nonfiction writing course. Class list will be reduced to 17 after writing samples are reviewed during the first week of classes. Preference will be given to English concentrators. S/NC.

Fall ENGL1180R S01 15435 MWF 12:00-12:50(12) (J. Readay)

1190 Special Topics in Nonfiction Writing
Writing sample required. Prerequisite: ENGL 0130, 0160, 0180, or any 1000-level nonfiction writing course. Class list will be reduced to 17 after writing samples are reviewed during the first week of classes. Preference will be given to English concentrators. S/NC.

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
1190B  Real Language: Poetics, Romantics, Writing
For the advanced writer. Concentrates on the first generation
Romantics (Wordsworth and Coleridge) and their poetic/aesthetic
experiments to correlate "the real language of men" with poetic
perception. Along with primary sources (prose and poetry), we read
scholarly, critical, and theoretical texts to construct ways of reading
English Romantic poetry and then work on different kinds of writing
that derive from those readings. Writing sample required. Prerequisite:
ENGL 0130, 0160, or 0180, or instructor permission. Class list will be
reduced to 17 after writing samples are reviewed during the first week
of classes. Preference will be given to English concentrators. Banner
registrations after classes begin require instructor permission. S/NC.
Spr  ENGL1190B  S01  25162  MWF 9:00-9:50(02) (L. Stanley)

1190G  Science as Writing, Scientists as Writers
For the advanced writer. Investigates the ways science, scientists, and
science-related issues have been treated in fictional and nonfiction
written for general audiences. Writing assignments include an informal
online journal, literary/cultural analyses, fiction or personal essay, and
scientific journalism. Readings from literary, journalistic, and scientific
writers. A background in science is useful but not required. Science
and humanities students welcome. Class list will be reduced to 17 after
writing samples are reviewed during the first week of classes.
Preference will be given to English concentrators. Prerequisite: ENGL
0130, 0160, or 0180. Banner registrations after classes begin require
instructor permission. S/NC.
Spr ENGL1190G  S01  25163  MWF 10:00-10:50(03) (C. Imbriglio)

1190M  The Teaching and Practice of Writing: Writing Fellows
Program
For students accepted as Writing Fellows, this course offers the study
of literary essays and composition theory to help develop their own
writing with a critical awareness of the elements of an essay. Students
will write essays throughout the semester and will confer with each
other for every paper, thereby gaining experience in peer tutoring and
becoming better writers through the help of an informed peer. They will
also respond to the writing of a cohort of students in another
designated Writing Fellows class. Enrollment is restricted to public
undergraduates who have been accepted into the Writing Fellows
Program in the preceding July. S/NC. Enrollment limited to 18.
Fall ENGL1190M  S01  15436  TTh 10:30-11:50(09) (D. Brown)
Fall ENGL1190M  S02  15437  TTh 1:00-2:20(10) (D. Brown)

1190N  Brown: Writing the Archive
The archives at and around Brown are primary sources for discovering
stories—institutional, historical, personal—of our life across time through
local history, personal memory, biography, and cultural critique,
combining scholarship, media, and the arts. What opportunities for new
writing lie behind doors to be opened across the street? Writing sample
required. Prerequisite: ENGL0130, 0160, 0180, or any 1000-level
nonfiction writing course. Class list will be reduced to 17 after writing
samples are reviewed during the first week of classes. Preference will
be given to English concentrators. Banner registrations after classes
begin require instructor approval. S/NC.
Spr  ENGL1190N  S01  25802  MWF 2:00-2:50(07) (S. Foley)

1200  Independent Study in Nonfiction Writing
Tutorial instruction oriented toward some work in progress by the
student. Requires submission of a written proposal to a faculty
supervisor. Section numbers vary by instructor. Instructor permission
required.
Fall; Spr

1210  History of the English Language
Provides an introduction to the study of the English language from a
historical, linguistic, and philological perspective, and an overview of
the study of the "Englishes" that populate our globe. While providing
students with the ability to identify and explain language change
through historical periods, also examines language as a social and
political phenomenon.
Fall ENGL1210 S01  14853  MWF 2:00-2:50(07)

1310  Special Topics in Medieval and Early Modern Literatures
and Cultures

1310A  "Firing the Canon": Early Modern Women Writers
Rediscovery and reconsideration of works by early modern women
have changed the literary canon: works by women are becoming
mainstream, and they are changing the way we read "traditional" texts.
This course includes poetry, drama, fiction, letters, diaries, and essays
by writers including Lanyer, Wroth, Cavendish, Behn, Manley,
Haywood, Scott, Fielding, and Montagu.
Fall ENGL1310A  S01  15410  TTh 10:30-11:50(09) (M. Rabb)

1310B  American Degenerates
Colonial British-Americans were called, among other names,
monstrous, wild, impotent, and grotesque. They could not, it was said,
produce writing worth reading. We will explore the ways in which
American writers embraced and/or challenged these charges of
cultural and bodily degeneracy. In the process, we will examine the
development of modern notions of literature and identity. Students
should register for ENGL 1310B S01 and may be assigned to
conference sections by the instructor during the first week of classes.
WRIT
Fall ENGL1310B  S01  15411  MWF 11:00-11:50(04) (J. Egan)

1310V  Chaucer: The Canterbury Tales
Middle English narratives by Geoffrey Chaucer's band of fictional
pilgrims, read in their 14th-century historical and literary contexts. Prior
knowledge of Middle English not required. Not open to first-year
students.
Fall ENGL1310V  S01  15412  TTh 10:30-11:50(09) (E. Bryan)

1310Z  Three Great Poets: Shakespeare, Donne, Milton
We will study these premier Renaissance poets from all angles
possible, to understand the historical situations and political issues that
shaped their writing, the authors and ideas that influenced them, the
traditional forms they appropriated for new purposes. Most of all, we
will study them to appreciate the power of poetry as a source of
knowledge and inspiration. It is recommended that students should
have already taken a course in reading poetry, such as ENGL0910A
How to Read a Poem or ENGL0400A Introduction to Shakespeare.
Students who have taken ENGL0210E may not register for this course.
LILE
Spr  ENGL1310Z  S01  25193  TTh 10:30-11:50(09) (C. Kahn)

1311B  To Be Announced
Pending Approval.
Fall ENGL1311B  S01  15438  MWF 12:00-12:50(12)

1360  Seminars in Medieval and Early Modern Literatures and
Cultures
Enrollment limited to 20.

1360A  The Stage as Globe in Renaissance Drama
Investigates how distant peoples and places, from Ireland to the West
Indies, from East to West, are constructed for the English stage. We
will read Marlowe's Tamburlaine, Fletcher's Island Princess,
Heywood's Fair Maid of the West, the anonymous Stukeley play,
Shakespeare's Othello, and Daborne's A Christian Turned Turk to
observe what dangers and freedoms these plays ascribe to specific
geographies. Enrollment limited. LILE

Textbook information for classes that have ordered materials through the Brown Course Scheduler will be
available in the Brown Course Scheduler as of July 1, 2010.
For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
English / 99

### 1561H The Brain and the Book: Thinking and Reading in the Victorian Novel
Considers the Victorian novel in light of the growing area of mental science that emerged in the 19th century, especially the psychology of artistic creation, appreciation, and interpretation. Examines the way fiction engages and represents various kinds of cognition; concerns include the relationship between mind and body, the workings of individual consciousness, the power of unconscious processes, the limits of self-control, and the boundaries between normal and altered states of mind. Authors include Charlotte Bronté, Charles Dickens, Wilkie Collins, George Eliot, Henry James. First-year students admitted only with permission of the instructor. Enrollment limited to 20. LILE

### 1600 Independent Study in the Enlightenment and the Rise of National Literatures and Cultures
Tutorial instruction oriented toward a literary research topic. Section numbers vary by instructor. Instructor's permission required. Fall; Spr

### 1610 American Poetry II: Modernism
Study of modernist American poetry. Readings include Pound, Eliot, Stevens, Williams, H.D., Moore, Hughes, and others.

### 1710D Special Topics in Modern and Contemporary Literatures and Cultures
After examining the relations between fiction and nonfiction, the class will consider the work of Tom Wolfe, Joan Didion, Annie Dillard, and others within contexts created by essayists (Montaigne), satirists (Swift), and Nineteenth-century sages (Carlyle, Thoreau, Nightingale, and Ruskin). The class will become acquainted with various nonfictional forms including prose satire, the meditative essay, sage-writing, autobiography, and travel literature. WRIT

### 1710G Faulkner
In examining Faulkner's major works from the early stream-of-consciousness novels through the history-driven and race-infected texts of the 30s and 40s, this course will evaluate Faulkner's practice as a writer working both in and against Southern culture, and as Modernist writing within an international context. Issues include narrative experimentation, race, class, gender, and the evolution of Faulkner's work.

### 1710E Who's Afraid of Virginia Woolf?
We will read novels, essays, diaries, and letters by Woolf in order to ask how and why Virginia Woolf haunts our culture and to consider her status as a cultural icon. The seminar will explore her work in the contexts of history, modernism, and literary influences, and it will examine the dimensions of Woolf's afterlife—a posthumous dynamic that shapes issues in art, politics, and gender. Enrollment limited to 20 seniors and juniors. LILE

### 1710H Black Internationalism and African American Literature
The notion that African Americans are an extension of a global racial community has been a fixture of black America than on the African continent itself. This course will use these texts of the 30s and 40s, this course will evaluate Faulkner's practice as a writer working both in and against Southern culture, and as Modernist writing within an international context. Issues include narrative experimentation, race, class, gender, and the evolution of Faulkner's work.

### 1710I Modern African Literature
Many African writers produce their works in one European language or another. Often, these works are more widely read in Europe and North America than on the African continent itself. This course will use these texts of the 30s and 40s, this course will evaluate Faulkner's practice as a writer working both in and against Southern culture, and as Modernist writing within an international context. Issues include narrative experimentation, race, class, gender, and the evolution of Faulkner's work.

### 1760I “Terrible Beauty”: Literature and the Terrorist Imaginary
Why does terrorism fascination literary writers in the modern period? Is terrorism the figure of something that is unrepresentable in fiction, or is it a type of direct political action that fiction writers aspire to? Can literature's humanistic role of allaying terror survive an age of spectacular politics? How susceptible is terrorism to "aestheticization"? Texts will include works by Conrad, Flannery O'Connor, Naipaul, Dennis Cooper, Frantz Fanon, and Ngugi Thiong'o. Enrollment limited to 20 seniors, juniors, and sophomores. Banner registrations after classes begin require instructor approval. LILE

### 1760J Modern African Literature
Many African writers produce their works in one European language or another. Often, these works are more widely read in Europe and North America than on the African continent itself. This course will use these texts of the 30s and 40s, this course will evaluate Faulkner's practice as a writer working both in and against Southern culture, and as Modernist writing within an international context. Issues include narrative experimentation, race, class, gender, and the evolution of Faulkner's work.

### 1760K Modern African Literature
Many African writers produce their works in one European language or another. Often, these works are more widely read in Europe and North America than on the African continent itself. This course will use these texts of the 30s and 40s, this course will evaluate Faulkner's practice as a writer working both in and against Southern culture, and as Modernist writing within an international context. Issues include narrative experimentation, race, class, gender, and the evolution of Faulkner's work.

### 1760L Modern African Literature
Many African writers produce their works in one European language or another. Often, these works are more widely read in Europe and North America than on the African continent itself. This course will use these texts of the 30s and 40s, this course will evaluate Faulkner's practice as a writer working both in and against Southern culture, and as Modernist writing within an international context. Issues include narrative experimentation, race, class, gender, and the evolution of Faulkner's work.

### 1760M Modern African Literature
Many African writers produce their works in one European language or another. Often, these works are more widely read in Europe and North America than on the African continent itself. This course will use these texts of the 30s and 40s, this course will evaluate Faulkner's practice as a writer working both in and against Southern culture, and as Modernist writing within an international context. Issues include narrative experimentation, race, class, gender, and the evolution of Faulkner's work.

### 1760N Modern African Literature
Many African writers produce their works in one European language or another. Often, these works are more widely read in Europe and North America than on the African continent itself. This course will use these texts of the 30s and 40s, this course will evaluate Faulkner's practice as a writer working both in and against Southern culture, and as Modernist writing within an international context. Issues include narrative experimentation, race, class, gender, and the evolution of Faulkner's work.

### 1760O Modern African Literature
Many African writers produce their works in one European language or another. Often, these works are more widely read in Europe and North America than on the African continent itself. This course will use these texts of the 30s and 40s, this course will evaluate Faulkner's practice as a writer working both in and against Southern culture, and as Modernist writing within an international context. Issues include narrative experimentation, race, class, gender, and the evolution of Faulkner's work.

### 1760P Modern African Literature
Many African writers produce their works in one European language or another. Often, these works are more widely read in Europe and North America than on the African continent itself. This course will use these texts of the 30s and 40s, this course will evaluate Faulkner's practice as a writer working both in and against Southern culture, and as Modernist writing within an international context. Issues include narrative experimentation, race, class, gender, and the evolution of Faulkner's work.

### 1760Q Modern African Literature
Many African writers produce their works in one European language or another. Often, these works are more widely read in Europe and North America than on the African continent itself. This course will use these texts of the 30s and 40s, this course will evaluate Faulkner's practice as a writer working both in and against Southern culture, and as Modernist writing within an international context. Issues include narrative experimentation, race, class, gender, and the evolution of Faulkner's work.

### 1760R Modern African Literature
Many African writers produce their works in one European language or another. Often, these works are more widely read in Europe and North America than on the African continent itself. This course will use these texts of the 30s and 40s, this course will evaluate Faulkner's practice as a writer working both in and against Southern culture, and as Modernist writing within an international context. Issues include narrative experimentation, race, class, gender, and the evolution of Faulkner's work.
**100 / English**

### 1760V Lying, Cheating, and Stealing

Explores literature's treatment of transgressions large and small, with particular attention to the way in which modernist narratives expose, obstruct, condone, or condemn acts of wrongdoing. What is the relationship between a misdeed and its retelling? Does writing right the story of a wrong? Readings from Rousseau, Graham Greene, Oscar Wilde, Lauren Slater, Nietzsche, Freud, as well as film, television, and select readings from law. Enrollment limited to 20 seniors and juniors.

**LILE**

Spr ENGL1760V S01 25175 M 3:00-5:20(13) (R. Reichman)

### 1761R The Non-Fiction of "Race" in 20th-Century American Culture

This course examines influential autobiographies and essays about the meaning of race in America across the 20th century. Writers we examine may include W.E.B. DuBois, Sui Sin Far, Younghill Kang, Richard Wright, Norman Mailer, Richard Rodriguez, Maxine Hong Kingston, Paul Gilroy. Enrollment limited to 20. **LILE**

Spr ENGL1761R S01 15442 W 3:00-5:20(14) (D. Kim)

### 1761T Conrad and Naipaul: The Supremacy of the Visible?

The reception of Conrad's works turns on a critical quandary: are his stories clearly focused on the transparency of the real? Course will end with two novels that address related issues with the tools of fictional narrative: Coetzee's **Foe** and Rushdie's **Midnight's Children**. Readings include: Butler, Hall, Jameson, Laclau, Lyotard, Spivak. Not open to first-year students.

**LILE**

Spr ENGL1900T S01 25200 TTh 2:30-3:50(11) (O. George)

### 1990 Senior Honors Thesis in Nonfiction Writing

Independent writing project under the direction of a faculty member. Permission should be obtained from the Honors Director for Nonfiction Writing. Enrollment limited to English concentrators whose application to the Honors in Nonfiction Writing program have been accepted.

Fall ENGL1990 S01 14036 'To Be Arranged' (L. Stanley)

Spr ENGL1990 S01 21025 'To Be Arranged' (L. Stanley)

### 1991 Senior Honors Thesis in Literatures and Cultures in English

Seminar and workshops led by the Advisor of Honors in Literatures. Introduces students to sustained literary-critical research and writing skills necessary to successful completion of the senior thesis. Particular attention to efficient ways of developing literary-critical projects, as well as evaluating, incorporating, and documenting secondary sources. Enrollment limited to English concentrators whose applications to the Honors in Literatures program have been accepted. Permission should be obtained from the Honors Advisor for Literatures and Cultures in English. S/NC.

Fall ENGL1991 S01 11429 F 3:00-5:20(15) (M. Blasing)

### 1992 Senior Honors Thesis in Literatures and Cultures in English

Independent research and writing under the direction of a faculty member. Permission should be obtained from the Honors Advisor for Literatures and Cultures in English. Open to senior English concentrators pursuing Honors in Literatures and Cultures in English. Instructor permission required.

Spr ENGL1992 S01 21030 'To Be Arranged' (M. Blasing)

(Primarily for Graduates)

### 2360 Graduate Seminars in Medieval and Early Modern Literatures and Cultures

Enrollment limited to 15.

### 2360A Renaissance Drama

This course explores Early Modern drama: its styles of representation, material conditions, and political engagements, in Marlowe, Jonson, Middleton, Webster, Ford, Beaumont and Fletcher, and others. Drawing on current scholarship, it posits the stage as the site of contests over national identity, royal power, gender ideology, social mobility, nascent capitalism, religious and ethnic differences. Enrollment limited to 15 graduate students. Undergraduate English concentrators may request permission of the instructor.

Spr ENGL2360A S01 25176 W 3:00-5:20(14) (C. Kahn)

### 2360K The Renaissance and Modernity

Modernism restages 17th-century cultural and political revolution and restoration. An examination of the problem of style and modernity, looking at practices in poetic and prose style and at the emergence of the term "modern" at the moment of high modernism and after. Enrollment limited to 15.

Fall ENGL2360K S01 15425 Th 4:00-6:20(13) (S. Foley)

### 2360Q Manuscript, Image, and the Middle English Text

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
This seminar will engage with the interpretive issues raised by considering manuscript images in relation to manuscript text. Selected Middle English texts will include *Pearl*, works by Chaucer, and the popular Middle English prose *Brut*, in the context of twelve historiated manuscripts of the fourteenth and fifteenth centuries. Enrollment limited to 15 graduate students.

**Fall ENGL2360Q S01 15443 M 3:00-5:20(13) (E. Bryan)**

**2400 Graduate Independent Study in Medieval and Early Modern Literatures and Cultures**
Section numbers vary by instructor. May be repeated for credit. Instructor's permission required.
Fall; Spr

**2560 Graduate Seminars in the Enlightenment and the Rise of National Literatures and Cultures**
Enrollment limited to 15.

**2560Y Romanticism and Cultural Property**
Changing literary representations of the aesthetic, ideological, and commercial value attributed to the remains of antiquity and to works of art generally in Britain and the United States during the period known as "Romanticism." Historical, legal, and theoretical discourses of "cultural property" and "cultural capital." Primary readings in Gibbon, Volney, Wordsworth, Jefferson, Byron, Percy and Mary Shelley, Felicia Hemans, and others. Enrollment limited to 15 graduate students.

**Fall ENGL2560Y S01 15849 M 3:00-5:20(13) (W. Keach)**

**2560Z Global Early American Literature**
What does American literature before 1860 look like viewed from a global perspective? Our goal will be to see what specifically literary problems and questions came into focus when we read American literature in terms of economic, social, philosophic, and ideological issues that extend across the globe. Authors may include John Smith, Anne Bradstreet, Charles Brockden Brown, and Herman Melville. Enrollment limited to 15 graduate students.

**Spr ENGL2560Z S01 25682 M 3:00-5:20(13) (J. Egan)**

**2561A Manifest Destinies: Liberalism and Expansion in American Literature, 1820-1920**
An investigation of the relations between American literature and the territorial expansion of the United States from the early 19th century through World War I. Topics include the role of liberalism in the rise and operation of American expansion, the relationship between colonialist and imperialist visions of America's manifest destiny, the ideological implications of literary genres of open space (the western, the sea narrative), race and the patterns of internal migration in the United States, and the connection between the Turner thesis and literary form (Howellsian realism, Whitman's poetics and Dickinson's anti-poetics, Jewett's regionalism). Authors include Cooper, Poe, Melville, Douglass, Craft, Whitman, Dickinson, James, Jewett, and Twain. Enrollment limited to 15 graduate students.

**Spr ENGL2561A S01 25203 T 12:00-2:20(10) (D. Nabers)**

**2600 Graduate Independent Study in the Enlightenment and the Rise of National Literatures and Cultures**
Section numbers vary by instructor. May be repeated for credit. Instructor's permission required.
Fall; Spr

**2760 Graduate Seminars in Modern and Contemporary Literatures and Cultures**
Enrollment limited to 15.

**2760B City, Culture, and Literature in the Early Twentieth Century**
Examines the way the city structures early 20th-century culture and history. Through novels, poetry, and cultural criticism, considers a range of topics that include the relation between the city, consciousness, and ideology; the effects of changing urban immigration; and the effects of mobility. Authors include Simmel, Benjamin, Harvey, Williams, Rotella, James, Woolf, Wright, and Eliot. Enrollment limited to 15 graduate students.

**Fall ENGL2760B S01 15427 W 3:00-5:20(14) (E. Katz)**

**2760W American Literature and the Visual Arts**
With the publication of several recent studies of cinema and modernism, interest in the relation between literature and the visual arts has never been higher. We will chart the forms this relation takes in the modern era by reading with theoretical attempts to diagnose it (Benjamin, Barthes, Derrida, Rancière) and literary attempts to enact it (James, Stein, Ellison, Williams, Agee). Enrollment limited to 15 graduate students.

**Spr ENGL2760W S01 25204 Th 4:00-6:20(16) (S. Burrows)**

**2760X After Postmodernism: New Fictional Modes**
What happens when the "postmodern," the period that did away with periodization, is over? This class will discuss issues such as contemporaneity, materiality, subtraction, subjectivity, the event, and the frame in approaching British and American literature at the turn of the 21st century. Readings include Ishiguro, Cooper, Toussaint, Seth, Coetzee, Chatwin, Danielewski, Deleuze, Bergson, Badiou, Lukács, Voloshinov, Adorno, Pasolini, Nancy. Enrollment limited to 15 graduate students. Banner registrations after classes begin require instructor approval.

**Spr ENGL2760X S01 25846 F 3:00-5:20(15) (T. Bewes)**

**2800 Graduate Independent Study in Modern and Contemporary Literatures and Cultures**
Section numbers vary by instructor. May be repeated for credit. Instructor's permission required.
Fall; Spr

**2900 Advanced Topics in Critical and Cultural Theory**
Enrollment limited to 15.

**2900G History and Form**
An exploration of the relation between historical and formalist approaches to literary interpretation, from the New Critics to the so-called "New Formalism." What is the role of form in historically and politically oriented criticism (examples will be taken from Marxism, the New Historicism, feminism, cultural studies, and post-colonial theory)? What happens to history when form takes center stage (for example, in structuralism and deconstruction)? Is it possible (and desirable) to avoid a pendulum swing between the poles of historicism and formalism and to mediate the conflicting claims of history and form? Or is a focus on one at the expense of the other the necessary cost of an incisive interpretive strategy? In addition to theoretical readings that exemplify the conflict between history and form, attention will be paid to the history of reception of one or more literary works in order to articulate the practical implications of their opposition and interdependence. Enrollment limited to 15.

**Fall ENGL2900G S01 15994 F 3:00-5:20(15) (P. Armstrong)**

**2900K Nietzsche, Foucault, Latour**
The seminar will trace a line of radical thought about truth, language, knowledge and power—and their interrelations—in the writings of Friedrich Nietzsche, Michel Foucault and Bruno Latour. Particular attention will be given to the significance of their work for poststructuralist language theory, constructivist epistemology and science studies, and current issues involving the relations between science and religion. Enrollment limited to 15 graduate students.

**Fall ENGL2900K S01 15446 TTh 1:00-2:20(10) (B. Smith)**
102 / Engineering

2950 Seminar in Pedagogy and Composition Theory
An experimental and exploratory investigation into writing as a preparation for teaching college-level writing. Reviews the history of writing about writing, from Plato to current discussions on composition theory. Against this backdrop, examines various processes of reading and writing. Emphasizes the practice of writing, including syllabus design. Priority given to students in the English Ph.D. program. Undergraduates admitted only with permission of instructor.

Fall ENGL2950 S01 11435 T 4:00-6:20(13) (L. Stanley)

2970 Preliminary Examination Preparation
For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing for a preliminary examination.

Fall ENGL2970 S01 11436 'To Be Arranged'
Spr ENGL2970 S01 21037 'To Be Arranged'

2990 Thesis Preparation
For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing a thesis.

Fall ENGL2990 S01 11437 'To Be Arranged'
Spr ENGL2990 S01 21038 'To Be Arranged'

English for Internationals see Center for Language Studies

Engineering

(Primarily for Undergraduates)

0020 Transforming Society-Technology and Choices for the Future
This course will address the impact that technology has on society, the central role of technology on many political issues, and the need for all educated individuals to understand basic technology and reach an informed opinion on a particular topic of national or international interest. The course will begin with a brief history of technology. Students MUST register for a conference, and a lecture section.

Spr ENGN0020 S01 21400 MWF 10:00-10:50(03) (K. Haberstroh)

0030 Introduction to Engineering
An introduction to various engineering disciplines, thought processes, and issues. Topics include computing in engineering, engineering design, optimization, and estimation. Case studies in engineering are used to illustrate engineering fields and scientific principles, including in-depth studies of statics and optics. Laboratories and design projects are included. Prerequisite: one of the following: APMA 0330, 0340, 0350, 0360, MATH 0100, 0170, 0180, 0190, 0200, 0350, 0520, 0540, which may be taken concurrently. Students MUST register for a conference, and a lecture section.

Fall ENGN0030 S01 11963 TTh 9:00-10:20(08) (J. Blume)

0040 Dynamics and Vibrations
Study of the kinematics and dynamics of particles and rigid bodies. Principles of motion of mechanical systems. Concepts of inertia, work, kinetic energy, linear momentum, angular momentum, and impact. Applications to engineering systems, satellite orbits, harmonic vibrations of one and two degree of freedom systems. Lectures, recitations, and laboratory. Prerequisite: ENGN 0030. Corequisite: MATH 0200 or 0180. Students MUST register for a common meeting, and a lecture section.

Spr ENGN0040 M01 21406 TTh 9:00-10:20 (A. Bower)
Spr ENGN0040 S01 21407 MWF 9:00-9:50(08) (A. Bower)

0090 Management of Industrial and Nonprofit Organizations
Exposes students to the concepts and techniques of management. Topics include marketing, strategy, finance, operations, organizational structure, and human relations. Guest lecturers describe aspects of actual organizations. Lectures and discussions.

Fall ENGN0090 S01 11971 TTh 1:00-2:20(15) (B. Hazeltine)
Fall ENGN0090 S01 11972 TTh 2:30-3:50(15) (B. Hazeltine)
Fall ENGN0090 S03 13892 TTh 6:30-7:50(15) (B. Hazeltine)

0120 First Year Seminar
Enrollment Limited to 20.

0120A Crossing the Consumer Chasm by Design
Technologies have shaped human life since tools were sticks and flints to today's hydrocarbon powered, silicon managed era. Some spread throughout society; bread, cell phones, airlines, but most never do; personal jet packs, Apple Newton, freeze dried ice cream.

Space Tourism, the Segway, electric cars: Can we predict which ones will cross the chasm to broad application? Can we help them to by combining design, engineering, marketing, communications, education, art, and business strategies?

Student teams identify potential new products, conceptualize, package, and define their business mode. By plotting their course across the chasm, we confront the cross-disciplinary barriers to realizing benefits from technology.

Enrollment limited to 24 first year students. FYS

Spr ENGN0120A S01 21414 MWF 11:00-11:50(04) (R. Fleeter)

0260 Mechanical Technology
A basic machine shop course that, with the help of an instructor, teaches students how to fabricate a few simple objects using hand tools and some basic machines. This course is designed to introduce the student to the machining process and environment. Audit only.

Fall ENGN0260 S01 11975 'To Be Arranged' (C. Bull)
Spr ENGN0260 S01 25661 'To Be Arranged' (C. Bull)

0310 Mechanics of Solids and Structures
Mechanical behavior of materials and analysis of stress and deformation in engineering structures and continuous media. Topics include concepts of stress and strain; the elastic, plastic, and time-dependent response of materials; principles of structural analysis and application to simple bar structures, beam theory, instability and buckling, torsion of shafts; general three-dimensional states of stress; Mohr's circle; stress concentrations. Lectures, recitations, and laboratory. Prerequisite: ENGN 0030. Students MUST register for a common meeting, and a lecture section.

Fall ENGN0310 M01 11976 MWF 9:00-9:50 (V. Shenoy)
Fall ENGN0310 S01 11977 Th 1:00-2:20(02) (V. Shenoy)
Fall ENGN0310 S02 11978 Th 2:30-3:50(02) (V. Shenoy)

0410 Materials Science
Relationship between the structure of matter and its engineering properties. Topics: primary and secondary bonding; crystal structure; atomic transport in solids; defects in crystals; mechanical behavior of materials; phase diagrams and their utilization; heat treatment of metals and alloys; electrical, optical, and magnetic properties of materials; strengthening mechanisms in solids and relationships between microstructure and properties; corrosion and oxidation. Lectures, recitations, laboratory. Prerequisites: CHEM 0330 or 0100. Students MUST register for a common meeting, and a lecture section.

Fall ENGN0410 M01 11995 M 3:00-5:20 & TTh 9:00-10:20 (S. Kumar)

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
Fall ENGN0410 S01 11998 W 11:00-11:50(08) (S. Kumar)
Fall ENGN0410 S02 11999 W 9:00-9:50(08) (S. Kumar)

0510 Electricity and Magnetism
Fundamental laws of electricity and magnetism and their role in engineering applications. Concepts of charge, current, potential, electric field, magnetic field. Resistance, capacitance, and inductance. Electric and magnetic properties of materials. Electromagnetic wave propagation, Lectures, recitation, and laboratory. Prerequisites: ENGN 0030 or PHYS 0070; ENGN 0040 or PHYS 0160 (previously 0080); MATH 0180 or 0200 (may be taken concurrently); and APMA 0330 or 0350 (may be taken concurrently). Students MUST register for a common meeting, and a lecture section.

Fall ENGN0510 S01 12000 MWF 10:00-10:50 (R. Zia)
Fall ENGN0510 S02 12003 T 9:00-10:20(03) (R. Zia)
Fall ENGN0510 S03 12004 T 1:00-2:20(03) (R. Zia)
Fall ENGN0510 S04 12005 T 1:00-2:20(03) (R. Zia)
Fall ENGN0510 S05 15828 Th 9:00-10:20(03) (R. Zia)
Fall ENGN0510 S06 15829 Th 9:00-10:20(03) (R. Zia)
Fall ENGN0510 S07 15830 Th 1:00-2:20(03) (R. Zia)
Fall ENGN0510 S08 15831 Th 1:00-2:20(03) (R. Zia)

0520 Electrical Circuits and Signals
An introduction to electrical circuits and signals. Emphasizes the analysis and design of systems described by ordinary linear differential equations. The frequency domain is introduced, including the effects of sampling and windowing in computer simulations. Other topics include transient analysis, Fourier series, and Laplace transform. Laboratories apply concepts to real problems in audio and controls. Lectures, recitation, and laboratory. Prerequisite: APMA 0330 or 0350. Students MUST register for a common meeting, and a lecture section.

Spr ENGN0520 S01 21454 MWF 10:00-10:50 (H. Silverman)
Spr ENGN0520 S02 21455 T 9:00-10:20(03) (H. Silverman)
Spr ENGN0520 S03 21456 Th 9:00-10:20(03) (H. Silverman)
Spr ENGN0520 S04 21457 Th 1:00-2:20(03) (H. Silverman)

0720 Thermodynamics
An introduction to macroscopic thermodynamics and some of its engineering applications. Presents basic concepts related to equilibrium, and the zeroth, first and second laws for both closed and open systems. Examples include analysis of engines, turbines, and other engineering cycles, phase equilibrium and separation processes, chemical reactions, surface phenomena, magnetic and dielectric materials. Lectures, recitations, and laboratory. Prerequisites: ENGN 0030 or ENGN 0040. Recommended: ENGN 0410 or CHEM 0330. Students MUST register for a common meeting, and a lecture section.

Spr ENGN0720 S01 21458 TTh 10:30-11:50 (J. Calo)
Spr ENGN0720 S02 21460 W 3:00-3:50(09) (J. Calo)
Spr ENGN0720 S03 21463 W 2:00-2:50(09) (J. Calo)

0810 Fluid Mechanics

Fall ENGN0810 S01 12039 MWF 1:00-1:50 (K. Kim)
Fall ENGN0810 S02 12046 Th 4:00-4:50(06) (K. Kim)
Fall ENGN0810 S02 12047 Th 12:00-12:50(06) (K. Kim)

0900 Managerial Decision Making
Ways of making effective decisions in managerial situations, especially situations with a significant technological component; decision analysis; time value of money; competitive situations; forecasting; planning and scheduling; manufacturing strategy; corporate culture. Lectures and discussions. Prerequisite: ENGN 0900 or MATH 0100.

Spr ENGN0900 S01 21477 TTh 1:00-2:20(15) (B. Hazeltine)
Spr ENGN0900 S02 21478 TTh 2:30-3:50(15) (B. Hazeltine)

0930 Technology and Society Course Series
Primarily for students in the liberal arts; no scientific or mathematical background is required.

0930A Appropriate Technology
Our goal for this course is that you leave it with the ability to think and act rationally and concretely on issues of technology and the human condition. We will provide background on useful technologies (e.g. wind, solar, hydro), techniques to fabricate them, and an opportunity to explore the obstacles to their implementation.

Spr ENGN0930A S01 21480 TTh 10:30-11:50(09) (C. Bull)

(For Undergraduates and Graduates)

1000 Projects in Engineering Design
Projects in design for concentrators in chemical, electrical, materials, and mechanical engineering. Students generally work in teams on projects that are defined through discussions with the instructor. An assembled product or detailed design description is the goal of the semester's effort. Prerequisite: completion of engineering core program.

Fall ENGN1000 S01 12059 Th 4:00-6:20(13) (J. Daniels)
Spr ENGN1000 S01 21485 Th 4:00-6:20(16) (J. Daniels)

1010 The Entrepreneurial Process: Innovation in Practice
Entrepreneurship is innovation in practice: transforming ideas into opportunities, and, through a deliberate process, opportunities into commercial realities. These entrepreneurial activities can take place in two contexts: the creation of new organizations and within existing organizations. This course will present an entrepreneurial framework for these entrepreneurial processes, supported by case studies that illustrate essential elements. Successful entrepreneurs and expert practitioners will be introduced who will highlight practical approaches to entrepreneurial success. Enrollment limited to 35.

Spr ENGN1010 S01 21486 TTh 10:30-11:50(09) (A. Kingon)

1110 Transport and Biotransport Processes
Aim: To develop a fundamental understanding of mass transport in chemical and biological systems. The course includes: mechanism of transport, biochemical interactions and separations; mass transport in reacting systems; absorption; membrane and transvascular transport; electrophoretic separations; pharmacokinetics and drug transport; equilibrium stage processes; distillation and extraction. Other features: design concepts; modern experimental and computing techniques; laboratory exercises.

Spr ENGN1110 S01 21487 TTh 2:30-3:50(11) (A. Tripathi)

1120 Chemical and Biochemical Reactor Design
Stoichiometry, thermodynamics, mechanisms, and rate expressions of homogeneous and heterogeneous chemical and biochemical systems. Basic concepts in homogeneous chemical and bioreactor design and ideal reactor models. Chemostats and enzymatic reactors. Optimization. Temperature and energy effects in reactors. Introduction to heterogeneous chemical and bioreactor design. Co- or prerequisites: ENGN 0810, 1130. Offered in alternate years.

Fall ENGN1120 S01 15832 TTh 1:00-2:20(10) (J. Calo)

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
1130 Phase and Chemical Equilibria
Application of the first and second laws of thermodynamics and conservation of mass to the analysis of chemical and environmental processes, phase and chemical equilibria and partitioning of species in multiphase, nonreactive and reactive systems. Thermodynamic properties of fluid mixtures—correlation and estimation. Applications and examples drawn from chemical processing and environmental problems. Prerequisite: ENGN 0720.

Fall ENGN1130 S01 12077 TTh 2:30-3:50(11)

1140 Chemical Process Design
Chemical process synthesis, flow charting, and evaluation of design alternatives. Process equipment sizing as determined by rate phenomena, economics, and thermodynamic limitations. Introduction to optimization theory. Applications of these principles to case studies. Prerequisites: ENGN 1110, 1130; ENGN 1120 (may be taken concurrently).

Spr ENGN1140 S01 21490 TTh 6:30-7:50(12) (G. Hradil)

1210 Biomechanics

Spr ENGN1210 S01 24259 MWF 1:00-1:50(06) (C. Franck)

1220 Neuroengineering
Bioengineering principles of neural cell operation and synaptic transmission. Experimental methods and models in the study of single neural cells, cortical circuits, and brain activity. Selected topics illustrating neural principles of movement, vision, memory and sensing, and their augmentation in ongoing neural prosthetics research. Students are expected to have completed the basic engineering core, including ENGN 0510. Prior course material at the level of NEUR 0010 to 0810. Prerequisites: ENGN 0510, Prior course material at the level of NEUR 0010 to 0810.

Spr ENGN1220 S01 23625 TTh 1:00-2:20(10) (A. Nummikko)

1230 Instrumentation Design

Fall ENGN1230 S01 12080 MWF 10:00-10:50(03) (J. Daniels)

1300 Structural Analysis
A unified study of truss, beam, frame, plate, and shell structures. Emphasis on principles of virtual work and numerical methods of elastic structural analysis by matrix methods. Includes calculation of deflections and reactions in beam structures, beam vibrations, and column buckling. Theorems of plastic limit analysis. Plate bending. Membrane stresses and local bending effects in axially symmetric shells. Prerequisite: ENGN 0310.

Spr ENGN1300 S01 21491 MWF 10:00-10:50(03)

1340 Water Supply and Wastewater Treatment
The hydrological cycle, surface water hydrology, ground water hydrology. Emphasis on the formulation of mathematical models of various flow problems and their solution by analytical or numerical means. Typical problems: open channel and river flows; flood routing; ground water flow in aquifers and into wells. Topics in wastewater treatment plant design: mixing, residence time, aeration, and, physical properties and methods of testing. Elements of the analysis of stress and strain in rock and soil masses; theories of failure, theory of seepage. Problems of building foundations; consolidation and settlement; stability of earth slopes and embankments. Includes geotechnical laboratory. Prerequisite: ENGN 0310.

Spr ENGN1360 S01 21495 M 3:00-5:20(13) (D. Carchedi)

1370 Advanced Engineering Mechanics
A unified study of the dynamics of particles, rigid bodies, and deformable continua. Generalized coordinates and Lagrange's equations; variational principles; stability of equilibrium; vibrations of discrete systems and of elastic continua, and wave propagation. Prerequisites: ENGN 0040, APMA 0340, or equivalent.

Spr ENGN1370 S01 21497 TTh 9:00-10:20(08) (W. Curtin)

1410 Physical Chemistry of Solids
Application of physical chemistry and solid state chemistry to the structure and properties of engineering solids as used in solid state devices, ceramics, and metallurgy. Equilibrium and free energy of heterogeneous systems, thermodynamics of solutions, chemical kinetics, diffusion, catalysis and corrosion, solid state transformations. Prerequisites: ENGN 0410, 0720.

Fall ENGN1410 S01 12091 MW 4:00-5:20(13) (B. Sheldon)

1420 Kinetics Processes in Materials Science and Engineering
This course introduces the basic principles and formulations that describe kinetic processes in materials science and engineering. These are divided into the following principle types of mechanisms: solid state diffusion, reactions at surfaces and interfaces, and phase transformations. The final section of the course applies these principles to several relevant materials processing systems. Prerequisites: ENGN 0410, 0720, 1410 or equivalent.

Spr ENGN1420 S01 21499 TTh 9:00-10:20(08) (B. Sheldon)

1450 Properties and Processing of Electronic Materials
Focuses on the science of electronic materials, the materials at the heart of modern microelectronics and optoelectronics. Addresses fundamental issues controlling their properties, processing, and reliability. Topics include band structure of semiconductors, basic devices structures (junctions and transistors), sputter deposition, molecular beam epitaxy, chemical vapor deposition, ion implantation, oxidation, and issues affecting reliability. Materials challenges that must be resolved for future generations of electronic devices.

Spr ENGN1450 S01 25662 TTh 10:30-11:50(09) (E. Chason)

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
1480 Metallic Materials
The microstructure of metals, microstructural evolution during processing, and the relationships between the microstructure and the physical properties of the material. Crystallography and x-ray diffraction. Crystalline defects, dislocations, grain boundaries, and their effects on mechanical and other properties. Solid state diffusion and solid state phase transformations. Oxidation and corrosion. Laboratory. Prerequisite: ENGN 0410, 1410.

Fall ENGN1480 S01 14342 TTh 10:30-11:50(09) (S. Kumar)

1490 Biomaterials
Biomaterials science, the study of the application of materials to problems in biology and medicine, is characterized by medical needs, basic research, and advanced technological development. Topics covered in this course include materials used in bone and joint replacement, the cardiovascular system, artificial organs, skin and nerve regeneration, implantable electrodes and electronic devices, drug delivery, and ophthalmology.

Fall ENGN1490 S01 13164 W 3:00-5:20(14) (T. Webster)

1560 Applied Electromagnetics
Applied engineering concepts in contemporary electromagnetics, with emphasis on microwave and guided wave (fiber) optics. A review of electromagnetic wave propagation in free space, followed by treatment of guided wave concepts. Topics include electrical transmission lines, microstrip lines, directional couplers, other microwave guided wave components, and wiring limits on a microelectronic chip. Prerequisite: ENGN 0510 or PHYS 0470 or equivalent good first course in Electricity and Magnetism.

Fall ENGN1560 S01 15834 MWF 12:00-12:50(12) (J. Xu)

1570 Linear System Analysis
Analysis of discrete and continuous electrical signals and systems in both time and frequency domains. Modulation, sampling, spectral analysis, analog and digital filtering. Fourier, Laplace and z-transforms, the state-space approach, stability of linear systems. Prerequisite: ENGN 0520.

Fall ENGN1570 S01 12105 MWF 1:00-1:50(06) (G. Taubin)

1580 Communication Systems
Analysis and design of modern digital communication systems. Includes: sampling theorem; entropy measure of signal information content; pulse code modulation; amplitude and single sideband modulation; review of probability theory; stochastic processes and their use in communication systems; detection of signals buried in noise; communication channel capacity; coding principles; communication networks. Laboratory projects. Prerequisite: ENGN 1570. APMA 1650 or MATH 1610 helpful but not required.

Spr ENGN1580 S01 21532 MW 8:30-9:50(02) (D. Durfee)

1590 Introduction to Semiconductors and Semiconductor Electronics
An introduction to the physics of fundamental electronic processes that underlie the operation of semiconductor devices on a microscopic scale. Basic electronic properties of semiconductors and effects at interfaces heterogeneous media, such as p-n junctions and quantum wells. Other junctions such as Schottky barriers and MOS structures are treated. Prerequisites: ENGN 0410 and 0510.

Fall ENGN1590 S01 12106 MWF 10:00-10:50(03) (A. Zaslavsky)

1600 Design and Implementation of Very Large-Scale Integrated Systems
VLSI (Very Large Scale Integration) CMOS (Complementary Metal Oxide Semiconductor) technology is the main driver of our digital revolution. The goal of the course is to learn how to design and implement VLSI digital circuits and optimize them with respect to different objectives such as area, speed, and power dissipation. Design and analysis will be carried out using computer-aided tools. Prerequisite: ENGN 1630, or instructor permission.

Spr ENGN1600 S01 21534 MWF 10:00-10:50(03) (R. Bahar)

1610 Image Understanding
Image processing is a technology experiencing explosive growth; it is central to medical image analysis and transmission, industrial inspection, image enhancement, indexing into pictorial and video databases, e.g., WWW, and to robotic vision, face recognition and image compression. This senior-level undergraduate course covers theoretical underpinnings of this field and includes a series of practical MATLAB image processing projects. ENGN 1570 is recommended but not required.

Fall ENGN1610 S01 12107 MWF 2:00-2:50(07)

1620 Analysis and Design of Electronic Circuits
Elementary device physics and circuit characteristics of semiconductor diodes, bipolar junction transistors (BJTs), and field effect transistors (FETs). Analysis and design of practical circuits using discrete semiconductor devices. Constraint on and techniques for linear integrated circuit (IC) design and the use of linear ICs as circuit building blocks. Laboratory. Prerequisites: ENGN 0510, 0520 or equivalent.

Spr ENGN1620 S01 21535 MWF 2:00-2:50(07) (W. Patterson)

1630 Digital Electronics Systems Design
Fundamentals of digital logic design including: Boolean algebra, gates, truth tables, logic families, flip-flops, finite state machines, memory, and timing. More advanced topics include A-D conversion, binary arithmetic, CPU organization, programmable logic (CPLDs and FPGAs), and VHDL. Extensive laboratory requirement. Not open to first year students; permission required for sophomores.

Fall ENGN1630 S01 12108 MWF 3:00-4:20(13) (J. Dworak)

1640 Design of Computing Systems
Architectures of computers with particular reference to current microprocessors, traditional computers, and vector and parallel processors. Ideas discussed include floating point arithmetic units, advanced computer arithmetic, RISC architectures, advanced memory structures, pipelining, I/O concepts, bussing, synchronous and asynchronous concepts, instruction set design, parallel processors, vector machines, computer architecture classification, high speed data transmission, and error correcting codes. Laboratory. Prerequisite: ENGN 1630 or CSCI 0310, or written permission.

Spr ENGN1640 S01 21536 MWF 1:00-1:50(06) (S. Reda)

1650 Embedded Microprocessor Design
This is a combined lecture and design project course offering experience in the open-ended design of an electronic product or system employing an embedded microprocessor by small-group design teams. Activity includes product specification, circuit design, programming, printed circuit layout, construction, packaging, and economic assessment. Teams are expected to produce functional products. Lecture topics will be adjusted to reflect the chosen design problems. Emphasis is placed on the criteria for choosing processors and on the interfaces and programming requirements of the system. Primarily for senior concentrators. Experience with C programming is
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helpful but not required. Prerequisite ENGN 1630 or permission of the instructor.

Fall ENGN1650 S01 12254 TTh 10:30-11:50(09) (W. Patterson)

1680 Design and Fabrication of Semiconductor Devices
Contemporary practice in the design and fabrication of semiconductor devices. The realization of basic electronic device functions on the semiconductor platform is a central theme in a coordinated lecture and laboratory course. Topics include microcircuit photolithography; layout and design scaling rules for integrated circuits; and techniques in semiconductor and thin film processing as they apply to ULSI circuit manufacturing. Prerequisite: ENGN 1580 or permission.

Spr ENGN1680 S01 25663 MWF 9:00-9:50(02) (D. Pacifici)

1690 Photonics and Applications
Engineering foundations of contemporary photonics and optoelectronics, including applications to broad spectrum of technologies from internet to optical data storage, to laser material processing and biomedical engineering. Course strategy is to teach basic photonic processes and show their engineering applications in optoelectronic devices and optoelectronic systems. Topical content includes: Light as wave interference and optical waveguides, fiber optics. Modulation of light: principles of acousto- and electro-optics. Optical display technology. Detection of light: from photodiodes to imaging devices, to sensor technology. Holography and optical storage. Compact light sources: from LEDs to semiconductor lasers. Prerequisite: ENGN 0510.

Spr ENGN1690 S01 21537 TTh 2:30-3:50(11) (J. Xu)

1700 Applied Thermodynamics
Control volume formulations of thermodynamic principles applied to the study of compressible fluids as working fluids in engines and thermodynamic devices. Applications include compressors and turbines, gas turbines, jet, ramjet and rocket engines, steam plants, refrigeration, and internal combustion engines. Combustion and flames are also considered. Prerequisites: ENGN 0720 and 0810.

Fall ENGN1700 S01 12109 MWF 11:00-11:50(04) (J. Liu)

1710 Heat and Mass Transfer

Spr ENGN1710 S01 21538 MWF 10:00-10:50(03)

1720 Design of Engines and Turbines

Spr ENGN1720 S01 23627 TTh 9:00-10:20(08) (P. Richardson)

1740 Computer Aided Visualization and Design
Provides instruction in the application of computers to the design methods in engineering. Hands-on experience in use of CAD/CAE software packages for geometric modeling, visualization, and drafting. Emphasis on applications to solids and structural problems. Independent design projects are carried out. Course counts as an ABET upper-level design course for mechanical and civil engineering concentrators. Prerequisite: ENGN 0310. Enrollment limited to 48.

Spr ENGN1740 S01 21539 TTh 1:00-2:20(10) (B. Burke)

1750 Advanced Mechanics of Solids

Fall ENGN1750 S01 12110 TTh 2:30-3:50(11) (L. Freund)

1760 Machine Design
Design of mechanical devices utilizing techniques developed in ENGN 1750. Additional subjects include material failure criteria, vibration of multimass systems, and control systems. Prerequisite: ENGN 1370 and 1750. Please contact Professor Rick Fleeter for special permission.

Spr ENGN1760 S01 21540 MWF 1:00-1:50(06) (R. Fleeter)

1860 Advanced Fluid Mechanics
Aims to give mechanical engineering students a deeper and more thorough grounding in principles and basic applications. Topics include review of the conservation principles; inviscid flow; viscous flow, including aerodynamics lubrication theory; laminar boundary layers; wave motions and wave drag. Lectures, assignments, computational projects, and laboratory. Prerequisites: ENGN 0720 and 0810.

Spr ENGN1860 S01 21541 MWF 11:00-11:50(04) (J. Liu)

1900 Construction of the Entrepreneurial Enterprise Framework: From Decision Making to Opportunity Creation
Students examine and engage with the decision making process in the modern enterprise, including investment, negotiation, and opportunity creation. This is done in an entrepreneurial context. Teams research and present orally and in writing on major class themes. Case studies, Socratic discussion models, readings, guest lectures, rhetoric and writing fellows support for videotaped oral and written business plans are utilized. Enrollment limited to 35.

Fall ENGN1900 S01 12111 M 6:00-8:30 PM(18) (J. Cohen)

1930 Special Topics in Engineering

1930B Biophotonics
Biophotonics deals with interactions between light and biological matter that combine lasers, photonics, nanotechnology, and biotechnology. The course will introduce the biology/photonics interface and discuss topics like photobiology, biosensors, bioimaging techniques, light activated therapy, microarray technology, tissue engineering with light, and bionanophotonics. Prerequisites: science and engineering background.

Fall ENGN1930B S01 13695 'To Be Arranged'

1930C Civil Engineering Project
Provides a major design experience for civil engineering students. This experience involves an open-ended design problem that requires teamwork and the integration of understanding developed in upper-level courses in civil engineering concentration. Intended for students in their senior year. Offered as a half-credit course each semester.

Fall ENGN1930C S01 12112 'To Be Arranged' (R. Clifton)

1930D Civil Engineering Project
Provides a major design experience for civil engineering students. This experience involves an open-ended design problem that requires teamwork and the integration of understanding developed in upper-
level courses in civil engineering concentration. Intended for students in their senior year. Offered as a half-credit course each semester.

1930F  Entrepreneurship and Good Work: Engineering Dreams
In this course, students examine the concepts of creation, organization, promotion, management and risk of ownership, to wit: entrepreneurship. This is done in the context of 'good work.' Using a combination of relevant case studies, readings, guest lectures and discussion, each participant builds a theory and framework to explore what defines innovative and meaningful engagement during one's working years. Written permission required.

Spr ENGN1930F S01 21543 W 2:30-5:20(14) (J. Mittlemann)

1930G  Entrepreneurship I
Teams of students from Engineering, COE and other technical and non-technical disciplines form simulated high tech startup companies working on mentor-defined opportunities, from conception to commercialization. Intellectual property, marketing, definition of a product requirements document, human factors (including team building), safety and environmental concerns, and legal concerns are emphasized. Students in the COE Technology Management Track should complete ENGN 1010 prior to this course. Enrollment in the course is limited and students must fill out a formal application (though COE tech track seniors are automatically approved). The course meets TR from 2:30-3:50, and other outside meeting hours will be arranged. Enrollment limited to 24. WRIT

Fall ENGN1930G S01 12116 TTh 2:30-3:50(11) (E. Suuberg)

1930H  Entrepreneurship II
Please see ENGN 1930G for course description. Enrollment limited to 24. WRIT

Spr ENGN1930H S01 21544 TTh 2:30-3:50(11) (E. Suuberg)

1930L  Biomedical Engineering Design, Research and Modeling
This course introduces students to design, modeling and analysis of biological systems. The first portion of the course focuses on linear systems. Research projects in design will be analyzed. The course also introduces students to the Matlab programming language, which allows them to implement the design models discussed in class. For seniors only

Fall ENGN1930L S01 16059 'To Be Arranged' (A. Tripathi)

1930M  Industrial Design
Brown engineering and RISD industrial design faculty lead product development teams through a design cycle. Engineers explore industrial design, designers gain some insight into engineering, and both groups can apply their skills to challenging problems. Frequent presentations, field trips, critiques, and labs. Preference given to seniors. Prerequisites: completion of engineering core. Enrollment limited to 15 students.

Fall ENGN1930M S01 12122 'To Be Arranged' (C. Bull)

1930Q  Social Entrepreneurship
Perspectives, scope, and direction of social entrepreneurship- creating sustainable organizations that accomplish social goals. Exploring a philosophy and establishing a mission. Case studies of social entrepreneurs. Planning, including strategy, finances, people, and implementation. Readings, guest lectures, and case studies. Students will develop plan for a new organization. Seminar.

Fall ENGN1930Q S01 12125 TTh 9:00-10:20(08) (C. Bull)

1930S  Land Use and Built Environment: An entrepreneurial view
Through the use of readings, group discussions, student presentations and guest lectures, students examine and challenge the analytical and structural frameworks which underlie and support public and private land and use the urban and suburban built environments. Students build an understanding and theory of how social, political, governmental and economic forces interact with society's present and future physical space needs. Instructor’s permission required. Enrollment limited to 24.

Fall ENGN1930S S01 13218 W 9:00-11:50(02) (J. Mittlemann)

1930U  Renewable Energy Technologies
Analysis of the thermodynamics, physics, engineering and policy issues associated with renewable and non-renewable energy technologies with applications appropriate to both the developed and the developing world. Specific technologies that will be studied include Fossil fuels, Wind, Solar, Hydro, Biomass and Nuclear. Energy consumption technologies, such as power generation and transportation will also be studied. Prerequisites: ENGN 0030, 0040 and 0720.

Spr ENGN1930U S01 23655 TTh 2:30-3:50(11) (K. Breuer)

1930V  Engineers of the Future: Architects of Dreams
Students integrate fundamentals of Engineering with the broader spectrum of learning needed to continuously create, capture and sustain value in a constantly changing world. Renewable energy; water; green-building; global-warming and infrastructure are examples of needs examined from multiple approaches in cultural contexts. Participants learn to think dynamically across diverse domains while gaining mastery over distinctions that power successful problem-solving. Instructor’s permission required.

Fall ENGN1930V S01 13219 TTh 1:00-2:20(10) (J. Mittlemann)

1930X  Entrepreneurship and New Ventures: A Socratic Approach to Innovation Analysis and Application
Taught via Socratic method, this course will use case studies that explore essential elements of the entrepreneurial process: Defining Entrepreneurship; Recognizing Opportunities and Developing Business Models; Assembling The Team; Raising Financial Resources; Managing Uncertainty; Managing the Growing Venture; and Realizing Value. Guests will include successful entrepreneurs and expert practitioners who will highlight practical approaches to entrepreneurial success.

Please note that beginning with the very first class, students MUST read the session's case study and supplemental readings, to be ready for participation in discussions. For the first day's assignment, please contact Professor Warshay directly at Daniel.Warshay@brown.edu. Prerequisites: ENGN 0090, 0900, 1010, and 1900. Enrollment limited to 35.

Fall ENGN1930X S01 13753 TTh 10:30-11:50(09) (D. Warshay)

1930Z  Robot Design

Spr ENGN1930Z S01 24375 MWF 11:00-11:50(04) (J. Daniels)

1931A  The Physics of Solar Cells
To help students build a solid knowledge of the fundamental physical processes occurring in conventional and unconventional solar cells. This seminar course will provide an overview of the state of the art of solar energy harvesting, solar cell designs and characterization. Recommended prerequisites: Good knowledge of basic physics and electromagnetism concepts; proficiency in ENGN 0510 or PHYS 0470; familiarity with Mathematica and/or Matlab. This course is designed for undergraduate and graduate students in Physics, Chemistry and Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
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Engineering interested in the field of alternative energy with a focus in solar cell technologies.

Spr ENGN1931A S01 25665 W 3:00-5:20(14) (D. Pacifici)

1970 Independent Studies in Engineering
Written permission and topic description required. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor’s permission required.

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1971 Independent Study in Engineering
Written permission and topic description required. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor’s permission required.

Spr

(Primarily for Graduates)

2010 Mathematical Methods in Engineering and Physics I
Interested students must register for PHY1 2020 S01 (CRN 14694).

2020 Mathematical Methods in Engineering and Physics II
An introduction to methods of mathematical analysis in physical science and engineering. The first semester course includes linear algebra and tensor analysis; analytic functions of a complex variable; integration in the complex plane; potential theory. The second semester course includes probability theory; eigenvalue problems; calculus of variations and extremum principles; wave propagation; other partial differential equations of evolution.

Spr ENGN2020 S01 21545 TTh 9:00-10:20(08) (L. Freund)

2110 Business Engineering Fundamentals I
The course examines core concepts in distinct areas through three modules: (1) intellectual property and business law, (2) technical marketing and (3) finance. All aspects of intellectual property will be treated, models on how to analyze markets will be discussed, culminating in a finance module which utilizes accounting fundamentals and models to perform financial analysis.

Fall ENGN2110 S01 12141 W 3:00-5:50(14) (E. Suuberg)

2120 Business Engineering Fundamentals II
The course examines core concepts in distinct areas through three modules: (1) organizations, leadership, and human capital, (2) implementing radical technology change, and (3) engineering ethics. Organization, leadership and human capital focuses on the attributes of effective leadership and the tactical operation of start-up companies, implementing radical technological change centers on disruptive technologies and their adaptation in the marketplace, and ethics treats the issues that arise in small start-up organizations with an emphasis on the interface of ethics and environmental, health and safety issues.

Spr ENGN2120 S01 21546 W 3:00-5:50(14) (E. Suuberg)

2130 Innovation and Technology Management I
Examines core concepts through four modules: (1) Industry Dynamics of Technological Innovation, (2) Formulating Technological Innovation Strategy, (3) Implementing Technological Innovation Strategy, and (4) Early Commercialization and Deployment. Industry Dynamics of Innovation will explore some of the drivers of technology innovation. Implementing Technological Innovation Strategy explores execution issues concerning the flow of technology and innovation from concept to physical product or service. Early Commercialization and Deployment will focus on more salient strategic and operational issues related to commercial readiness and roll-out of a technology-based product or service. Emphasis will be on technology oriented entrepreneurial enterprises, but exploration will also include larger more established organizations.

Fall ENGN2130 S01 12142 T 3:00-5:20(13) (R. Petteruti)

2140 Innovation and Technology Management II
Explores concepts relevant to the management of operations in industrial enterprises with an emphasis on technology-oriented firms. Topics fall into three basic modules: (1) Capacity Planning, (2) Industrial Engineering, and (3) Materials & Resource Engineering. Capacity Planning will focus on capacity considerations in manufacturing and service organizations. Industrial Engineering will examine optimizing plant and process layouts. Materials & Resource Engineering will cover various aspects of planning and scheduling material, labor, and work center capacity. Inventory management techniques will also be introduced and examined as will concepts such as materials requirements planning and aggregate planning.

Spr ENGN2140 S01 21548 T 3:00-5:20(16) (R. Petteruti)

2150 Technology Entrepreneurship and Commercialization I
ENGN 2150 and the spring ENGN 2160 form a sequence that develops the skills for technology-based entrepreneurship. It teaches creation of viable high-growth-potential new ventures from emerging science and technology. It is from emerging S&T that a high percentage of new jobs are created, both by existing large companies and through the formation of new companies. You will examine S&T for new opportunities, create novel product or service concepts from these sources and determine whether these concepts truly represent new business opportunities. Pedagogy is a combination of lectures and "experiential learning", with work undertaken as a two-semester project. Enrollment limited to 30 graduate students in the IMEE program.

Fall ENGN2150 S01 15837 M 3:00-5:50(13) (A. Kingon)

2160 Technology Entrepreneurship and Commercialization II
ENGN 2160 and the prerequisite fall course 2150 form a course sequence that develops the knowledge of, and embeds the skills for, technology-based entrepreneurship. While 2150 has helped you to examine science and technology sources, and create a portfolio of opportunities from these, this course continues by developing selected opportunities into a compelling business case for the creation of a high growth potential new venture. Once again, learning is by a combination of lectures and "experiential learning", with work undertaken as a guided two-semester project. Prerequisite: ENGN 2150. Enrollment limited to 30 graduate students in the IMEE program.

Spr ENGN2160 S01 25915 M 3:00-5:50(13) (A. Kingon)

2180 Globalization Immersion Experience and Entrepreneurship Laboratory
In this course, students will gain a better understanding of the political, social and cultural dynamics that influence entrepreneurial enterprises in different world regions. Meetings will be arranged with high technology companies and their venture arms, academic incubators, investment professionals, legal professionals, government officials, entrepreneurs, and other university faculty and students. The semester becomes a global entrepreneurship and innovation "laboratory" where students experience and take part in guest lectures from experts working in other countries. Classroom discussions, student presentations, papers and readings will be used to focus and further understand the globalization dynamic and its relationship to entrepreneurship. Prerequisite: ENGN 2110. Enrollment limited to graduate students in the IMEE program.

Spr ENGN2180 S01 24935 Th 3:00-5:50(16) (J. Mittelmann)

2210 Continuum Mechanics

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).

Fall ENGN2210 S01 12143 MW 8:30-9:50(02) (H. Gao)

2220 Mechanics of Solids

Fall ENGN2240 S01 15838 MWF 11:00-11:50(04) (A. Bower)

2270 Advanced Elasticity

Spr ENGN2270 S01 25916 TTh 9:00-10:20(08) (J. Blume)

2380 Fracture Mechanics

Fall ENGN2380 S01 15839 MWF 2:00-2:50(07) (P. Guduru)

2410 Thermodynamics of Materials

Fall ENGN2410 S01 12172 MW 4:00-5:20(13) (B. Sheldon)

2420 Kinetic Processes and Mechanisms in Materials Science
Continuum and atomistic descriptions of diffusion in solids. Reactions involving surfaces and interfaces, including evaporation, adsorption, grain growth, and coarsening. Phase transformation kinetics, including nucleation, growth, solidification, spinodal decomposition, and martensitic transformations. Analysis of systems with multiple kinetic mechanisms (typical examples include oxidation, crystal growth, and sintering). Prerequisite: background in basic thermodynamics. Recommended: ENGN 1410 or 2410 or equivalent.

Spr ENGN2420 S01 21554 MW 8:30-9:50(02) (B. Sheldon)

2440 Strength of Solids
Mechanical behavior of solids as interpreted through atomistic mechanisms. Theory and characteristics of dislocations in continuous and crystalline media. Intrinsic and extrinsic stacking faults, extended dislocations, point defects, nodes and networks, disclinations, crystal boundaries. Applications of dislocation theory to single and polycrystal plasticity, work-hardening, stress-corrosion, creep, fatigue, hardening mechanisms, etc.

Spr ENGN2440 S01 25666 TTh 2:30-3:50(11) (W. Curtin)

2500 Medical Image Analysis
Explosive growth in medical image analysis has enabled noninvasive methods to diagnose and treat diseases. The course will first discuss the fundamentals of formation of medical images such as CT, MRI, ultrasound, and nuclear imaging; then consider clinical constraints and discuss methods in image guided therapy/surgery, techniques to detect, delineate, measure, and visualize medical organs and structures.

Spr ENGN2500 S01 25667 TTh 2:30-3:50(11) (K. Kimia)

2530 Digital Signal Processing
An introduction to the basics of linear, shift invariant systems and signals. Quantization and sampling issues are introduced. Discrete time and DFT properties, fast DFT algorithms, and spectral analysis are discussed. IIR and FIR digital filter design is a focus; stochastic and deterministic signals are introduced. MATLAB exercises are a significant part of the course.

Fall ENGN2530 S01 12175 MWF 11:00-11:50(04) (H. Silverman)

2620 Solid State Quantum and Optoelectronics
Incorporates the study of interaction of radiation with matter emphasizing lasers, nonlinear optics, and semiconductor quantum electronics. Q-switching and mode-locking, electro- and acousto-optic interactions, harmonic generation and parametric processes, self-focusing and phase modulation, stimulated Raman and Brillouin scattering, ultrashort pulse generation, nonlinear processes of conduction electrons in semiconductors, bulk and surface polaritons. Prerequisite: ENGN 2600 or equivalent.

Fall ENGN2620 S01 15840 MWF 1:00-1:50(06) (A. Numnikko)

2640 Classical Theoretical Physics II (PHYS 2040)
Interested students must register for PHYS 2040 S01 (CRN 21706).

2660 Physics and Technology of Semiconductor Heterostructures
Covers, largely from an experimental point of view, topics of current interest in semiconductor heterostructure physics and technology; magnetotransport in two-dimensional electron gas; integer and fractional quantum Hall effects; resonant tunneling and superlattice transport; optical and transport properties of quantum wires and dots; heterostructure-based devices; other topics of student interest. Prerequisites: PHYS 1410 or equivalent quantum mechanics, ENGN 1590 or introductory device course helpful but not required.

Spr ENGN2660 S01 25668 MWF 2:00-2:50(07) (A. Zaslavsky)

2730 Advanced Thermodynamics I
Interested students must register for CHEM 2010 S01 (CRN 13589).

2740 Advanced Thermodynamics II
Interested students must register for CHEM 2020 S01 (CRN 21640).

2810 Fluid Mechanics I
Formulation of the basic conservation laws for a viscous, heat conducting, compressible fluid. Molecular basis for thermodynamic and transport properties. Kinematics of vorticity and its transport and diffusion. Introduction to potential flow theory. Viscous flow theory; the application of dimensional analysis and scaling to obtain low and high Reynolds number limits.

Fall ENGN2810 S01 13696 MWF 10:00-10:50(03) (K. Breuer)
2820 Fluid Mechanics II
Interested students must register for APMA 2420 S01 (CRN 23493).

2910 Special Topics in Engineering

2910G Topics in Translational Research and Technologies
To improve human health, engineering and scientific discoveries must be explored in the context of application and translated into human/societal value. Translational research is creating a fundamental change in the way basic science and engineering research has operated for decades, breaking down the literal and figurative walls that separate basic scientists/engineers and clinical researchers. Such discoveries typically begin at "the bench" with basic research—and in the case of a science—then progress to the clinical level, or the patient’s "bedside." This seminar will utilize case studies to demonstrate to students how the translational research unfolds. Lectures will be delivered by clinicians, medical researchers, engineers, and entrepreneurs, with case studies focused on topics ranging from value creation, IRB, HIPAA, FDA approval, etc.

Spr ENGN2910G S01 23704 F 3:00-5:20(15) (G. Jay)

2910L Chemical and Transport Processes in the Environment
This course will cover fundamental properties and processes that are important for the fate and transport of chemicals in the environment. Topics will include acid/base speciation, complexation, sorption, phase-partitioning, and solution chemistry. Emphasis will be placed on natural and engineered environmental systems, including a range of environmentally relevant media (e.g. water, air, soil/sediments, plants, organisms). Conceptual understanding of chemical structure and its role in environmental transport will be highlighted, while quantitative approaches will be used to solve problems.

This course is relevant for graduate students interested in environmental pollution chemistry. Undergraduates need permission of the instructor to register.

Spr ENGN2910L S01 25917 'To Be Arranged' (K. Pennell)

2910X Video Processing
This special topic course will address the rapidly evolving technologies involved in representing and processing video data, including compression, tracking and 3-D modeling. The course will involve projects to implement live and file-based video processing algorithms as well as periodic quizzes. Projects will be carried out primarily in C++.

Fall ENGN2910X S01 14700 M 3:00-5:20(13) (J. Mundy)

2910Y Innovation and Entrepreneurship: Creating Value Out of Graduate Research
The course focuses on innovation and entrepreneurship of embryonic ideas, pioneering technologies and scientific breakthrough emanating from the university research enterprise. All assignments will center on your graduate research, culminating with a full business plan. The course is unique in this way for you to remain focused on your graduate work, while simultaneously harvesting the commercial potential of your research.

Spr ENGN2910Y S01 21560 F 3:00-5:20(15) (D. Warshay)

2910Z Small Wonders: The Science, Technology, and Human Health Impacts of Nanomaterials
Survey course focusing on nanomaterials as enabling components in emerging nanotechnologies. Covers scaling laws for physicochemical properties, synthesis routes, manipulation and characterization tools, and example applications in sensors, composites, advanced energy devices, and nanomedicine. Impacts of nanomaterials on environment and health, including the interactions between nanoscale structures and biological molecular cells, and whole organisms. Undergraduate enrollment by permission.

Fall ENGN2910Z S01 15841 TTh 10:30-11:50(09) (R. Hurt)

2911E New Frontiers of Solid Mechanics in Nano- and Bio-Research
Course will cover fundamental concepts and methods in continuum, atomistic and statistical modeling of nanoscale and hierarchical materials in engineering and biology. Various systems and phenomena, including thin films, nanocrystalline materials, fracture, hierarchical tissue structures of bone and gecko, cell adhesion and endocytosis, carbon nanotubes and biomolecular assembly, are selected to stimulate discussions at the forefront of solid mechanics research.

Fall ENGN2911E S01 15842 F 3:00-5:20(15) (A. Kingon)

2911I 3D Photography and Geometry Processing
In 3D Photography, cameras and lights are used to capture the shape and appearance of 3D objects represented as graphical models for applications such as computer animation, game development, electronic commerce, heritage preservation, reverse engineering, and virtual reality. This course covers 3D capture techniques and systems, surface representations and data structures, as well as methods to smooth, denoise, edit, compress, transmit, simplify, and optimize very large polygonal models.

Spr ENGN2911I S01 25670 Th 3:00-5:20(10) (G. Taubin)

2912B Scientific Programming in C++
Introduction to the C++ language with examples from topics in numerical analysis, differential equations and finite elements. As a prerequisite, some programming knowledge, e.g., MATLAB projects. The course will cover the main C++ elements: data types; pointers; references; conditional expressions; streams; templates; Standard Template Library(STL); design and debugging techniques.

Fall ENGN2912B S01 13165 'To Be Arranged' (J. Mundy)

2912D Networks and Network-on-Chip Design
Network-on-Chip communication fabrics are a very recent approach to multi-core system-on-chip design. This class will cover state-of-the-art research in the design and test of network-on-chip communication hardware and will compare these on-chip communication networks to more traditional networks. Additional aspects of system-on-chip design and test will also be explored. Prerequisites: ENGN 1630 and ENGN 1640 or equivalent experience in digital design.

Spr ENGN2912D S01 25672 MWF 6:00-7:00(07) (J. Dworak)

2912G Medical Imaging Analysis
This course is aimed at undergraduate and graduate students from a variety of disciplines including Engineering, Computer Science, Applied Mathematics, Physics, Cognitive Science and Neuroscience as well as medical students and residents. Magnetic resonance imaging (MRI) is a powerful tool for investigating the biological structure and functional dynamics across an incredibly broad spatial and temporal scale. This course will provide an understanding of the basic physical principles of magnetic resonance; MR signal generation, detection and contrast mechanisms; and image acquisition and reconstruction.

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
Environmental Studies / 111

Environmental Studies

(Primarily for Undergraduates)

Introduces environmental studies, surveys contemporary environmental problems, and explores arguments for and against regulating human activities, with an emphasis on environmental problem-solving. Interactions between science and technology, political institutions, individual behavior, and the value structures underlying environmental choices are explored. Primarily for first- and second-year students. One required 90-minute section each week. Sections and field trips to be arranged.

Fall ENVS0110 S01 16037 MWF 10:00-10:50(03) (K. DeMaster)

0240 Earth: Evolution of a Habitable Planet (GEOL 0240)
Interested students must register for GEOL 0240 S01 (CRN 21696).

0260 Religion Gone Wild: Spirituality and the Environment (RELS 0260)
Interested students must register for RELS 0260 S01 (CRN 14224).

0410 Environmental Stewardship
Challenges students to address the economics and logistics of implementing strategies to conserve resources and reduce the negative impacts of the built environment. The goal is to learn the rationale, process and technical aspects of the practice of environmental stewardship. Topics include sustainable design, institutional change, and corporate environmental responsibility. Students collaborate in interdisciplinary teams on applied projects. Permission by instructor by application process prior to enrollment in the class.

Spr ENVS0410 S01 21246 MW 1:00-2:20(06) (K. Teichert)

0455 Coastal Ecology and Conservation
Enables students to master fundamental ecological concepts and to understand how this knowledge can be used to inform coastal conservation and management. Case studies from New England and elsewhere and field trips to rocky shores, salt marshes and other coastal ecosystems will enable students to develop scientific skills and experience the challenges of coastal conservation science. Suitable for students with at least some biology background; the course is aimed at first year students and sophomores. Expected background: BIOL 0200 or equivalent. Enrollment limited to 15; instructor permission required. Email instructor (Mark_Bertness@brown.edu) to receive course application (due May 1). Admitted students will be able to register for the course in September. WRIT

Fall ENVS0455 S01 14255 TTh 2:30-3:50(11) (M. Bertness)

0490 Environmental Science in a Changing World
Introduces students to environmental science and the challenges we face in studying human impacts on an ever-changing earth system. We will explore what is known, and not known, about how ecosystems respond to perturbations. This understanding is crucial, because natural systems provide vital services (water and air filtration, climate stabilization, food supply, erosion and flood control) that cannot be easily or inexpensively replicated. Special emphasis will be placed on climate, food and water supply, population growth, and energy. We will use these topics as springboards to explore the utility of the scientific method, the role science can play in policy decisions, and the environmental challenges that face industrial society over the coming century. WRIT

Fall ENVS0490 S01 15718 TTh 1:00-2:20(10) (S. Porder)

0510 International Environmental Policy
Examines how international organizations, national governments and non-state actors interact to address human impacts on the global environment. Considers effects of treaties, trade agreements and foreign aid on resolution of trans-boundary environmental problems including climate change, marine governance, biodiversity loss and trade in endangered species and hazardous waste. Students negotiate a mock treaty (NEWORLD) to mitigate some aspect of human impact on global change from the perspective of different state and non-state actors. Prerequisites: ENVS 0110, ENVS 0490 or comparable introductory coursework is recommended.

Fall ENVS0510 S01 14636 MWF 11:00-11:50(04) (C. Karp)

0580 Foundations of Physical Hydrology (GEOL 0580)
Interested students must register for GEOL 0580 S01 (CRN 12489).

(For Undergraduates and Graduates)

1070 The Burden of Disease in Developing Countries (PHP 1070)
Interested students must register for PHP 1070 S01 (CRN 12646).

1110 Estuarine Oceanography (GEOL 1110)
Interested students must register for GEOL 1110 S01 (CRN 14282).

1260 Indigenous People and Nature: Birds (ANTH 1260)
Interested students must register for ANTH 1260 S01 (CRN 23673).

1330 Global Environmental Remote Sensing (GEOL 1330)
Interested students must register for GEOL 1330 S01 (CRN 24195).

1350 Environmental Economics and Policy
Economic analysis of environmental issues in industrialized countries with an emphasis on the implications for designing appropriate policy measures. Topics include: the valuation of environmental goods; the basic theory of economic markets, market failure, and the sources of any failure; private and government solutions to market failure; the role of uncertainty in policy-making; and open trade environments and
trans-boundary pollution, on a national and global scale. Applications to issues such as climate change, land use, air and water pollution, and alternative energy. Prerequisite: ECON 1110.

Fall ENVS1350 S01 11644 TTh 10:30-11:50(09) (S. Nagavarapu)

1355 Environmental Issues in Development Economics
Examines environmental issues in developing countries, including air and water pollution, land use change, energy use, and the extraction of natural resources. Builds on ENVS 1350 by: delving more deeply into microeconomic theory, linking household/firm decision-making on environmental issues to choices in labor, land, and product markets; developing basic empirical techniques through exercises and a project; and using recent research to illustrate the roles of econometrics and economic theory in confronting problems at the nexus of the environment, poverty, and economic development. Suggested background: ECON 1630, and ENVS 1350 or ECON 1480. Prerequisites: ECON 1110 and ECON 1620.

Spr ENVS1355 S01 24497 TTh 10:30-11:50(09) (S. Nagavarapu)

1370 Environmental Geochemistry (GEOL 1370)
Interested students must register for GEOL 1370 S01 (CRN 12498).

1400 Sustainable Design in the Built Environment
Provides students with an in-depth understanding of sustainability, as it relates to planning, engineering, architecture, landscape architecture and green buildings. Students conduct economic and environmental analyses to examine planning, design and building policies and opportunities holistically. Interdisciplinary teams work on applied design projects. Prerequisites: ENVS 0410, or equivalent by permission of instructor. Enrollment limited to 24. LILE

Fall ENVS1400 S01 13329 W 3:00-5:20(14) (K. Teichert)

1410 Environmental Law and Policy
Introduces students to environmental law in the United States. Uses legal decisions and policy frameworks to consider the roles of non-governmental actors in formation and implementation of environmental policy. Students will become familiar with major federal environmental laws and regulatory databases and see how legal precedent, differing understandings of risk and alternative regulatory and market-enlisting strategies have shaped solutions to environmental problems. Provides opportunity to apply legal skills to local environmental legislation or legal problem. Intermediate coursework in Environmental Studies, Political Science, Community Health, Urban Studies or other environmentally-related coursework is recommended.

Spr ENVS1410 S01 21258 TTh 2:30-3:50(11) (C. Karp)

1440 Conservation Biology (BIOL 1470)
Interested students must register for BIOL 1470 S01 (CRN 13634).

1490 SES-Independent Study/Science Writing
The culmination of the Semester in Environmental Sciences at the Marine Biological Laboratory is an independent research project that builds on the topics covered in the aquatic and terrestrial ecosystem analysis core courses. In addition students participate in a seminar designed to help improve their ability to tell a lay reader about science. Enrollment is limited to students in this program. Instructor permission required.

Fall ENVS1490 S01 11757 'To Be Arranged'

1491 SES-Terrestrial Ecosystem Analysis
Team-taught course examining: the structure of terrestrial ecosystems fundamental biogeochemical processes, physiological ecology, impacts of environmental change on the landscape; the application of basic principles of ecosystem ecology to investigating contemporary environmental problems. Part of the Semester in Environmental Science at the Marine Biological Laboratory; enrollment is limited to students in this program. Instructor permission required.

Fall ENVS1491 S01 14251 'To Be Arranged'

1492 SES-Aquatic Ecosystem Analysis
Team-taught course examining the structure of freshwater, estuarine and marine ecosystems; impacts of environmental change on the landscape at local regional and global scales; the application of basic principles of ecosystem ecology to investigating contemporary environmental problems such as coastal eutrophication, fisheries exploitation. Part of the Semester in Environmental Science at the Marine Biological Laboratory; enrollment is limited to students in this program. Instructor permission required.

Fall ENVS1492 S01 14252 'To Be Arranged'

1493 SES-Environmental Science Elective
Two environmental science electives are offered each fall semester as part of the Semester in Environmental Science at the Marine Biological Laboratory, including: aquatic chemistry, mathematical modeling of ecological systems and microbial ecology. Enrollment is limited to students in this program. Instructor permission required.

Fall ENVS1493 S01 14254 'To Be Arranged'

1530 From Locke to Deep Ecology: Property Rights and Environmental Policy
Examines the evolution of property and tenure in land, water, the atmosphere and natural resources, and the consequences of these property rights regimes for environmental protection. Readings drawn from the scientific, legal, public policy and popular literature are used to consider the development of American attitudes about the relationship between people and nature; the relationship between public and private rights in the land, sea, freshwater, atmosphere and wildlife; and the use of innovation property rights regimes in environmental policy. Intermediate coursework in Environmental Studies, Urban Studies, American Civilizations or other environmentally-related coursework is recommended. Enrollment limited to 30.

Fall ENVS1530 S01 14637 TTh 2:30-3:50(11) (C. Karp)

1550 Nature, Culture, History and the Environment: the Humanistic Lens
When we look at Nature, what do we see? And how is that vision informed by our cultural worldview and social history? Furthermore, how does the way we view Nature affect the way we interact with it? This course explores these questions by examining the way that human societies socially and culturally construct "the environment." It also probes some of the intersections of the environment and myriad humanistic studies--including the lenses of environmental literature and history, environmental film, poetry, indigenous storytelling, and art history. DVPS LILE

Spr ENVS1550 S01 25898 TTh 1:00-2:20(10) (K. DeMaster)

1560 Sustenance and Sustainability: Exploring the Nexus of Agro-Food Systems, Society, the Environment
Explores the intersections of agriculture, society, and the environment. Since the advent of human agriculture approximately 10,000 years ago, human societies and cultures have been shaping and remaking the environment to produce food in myriad contexts. Employing an interdisciplinary perspective, this course explores the relationships--social, cultural, environmental, and economic--that surround the cultivation, processing, distribution, marketing, preparation and consumption of food. We will examine the way that contemporary agricultural practices interact with and contribute to a diversity of environmental problems. Likewise, we will explore ways that alternative agricultural practices--including organic production, food re-localization movements, and community-supported agriculture (to name a few)--may offer routes toward both human sustenance and sustainability in the face of global environmental crises. DVPS LILE

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
Environmental Studies / 113

Spr  ENVS1560  S01  25899  Th 4:00-6:20(16)  (K. DeMaster)

1700 Senior Seminars

1700A Working with Communities: Cultural Competence and Ethics
For students who will conduct research/education in community settings: for community/public health, environmental health, sociology, international development, environmental studies, and other fields. Focuses on ethical theories of research, methods of community engagement, participatory research designs, robust technical methods, IRB training and community data issues, education, and research dissemination. Students will learn the theory and practice of community-based, participatory research (CBPR) and cultural competence, particularly with selected cultural groups. Qualitative methods and research ethical understandings are critical to effective community research and education interventions. Ethical theories (principle, virtue ethics, communitarian, postmodern and cross-cultural perspectives) can be applied to improve research designs/methods. A review of qualitative research methods also demonstrates community/culturally-appropriate research practices. The course is open to undergraduate and graduate students.

Fall  ENVS1700A  S01  11781  M 3:00-5:20(13)  (D. Quigley)

1710 Environmental Health and Policy
Provides an overview of environmental health from local to global, addressing fundamental and emerging topics, including air and water pollution, environmental justice, urban and global health, and climatic change and health. Examines scientific and public policy conflicts and framework regarding environmental factors impacting human health. Students develop a basic knowledge of epidemiology, toxicology, and risk assessment, including hazard identification; exposure assessment and fate and transport of environmental toxics; risk management and communication; principles of data interpretation and application to environmental policy-making. Case discussions are utilized. Prerequisite: ENVS 0110 or permission of instructor. Sections arranged based on TA's class schedule.

Fall  ENVS1710  S01  11784  TTh 9:00-10:20(08)

1750 Global Change Seminar
Pending Approval. No description available. Open to seniors only. Instructor permission required.

Spr  ENVS1750  S01  25543  W 3:00-5:20(14)  (H. Leslie)

1820 Environmental Health and Disease (BIOL 1820)
Interested students must register for BIOL 1820 S01 (CRN 21169).

1870 Environmental Sociology (SOC 1870N)
Interested students must register for SOC 1870N S01 (CRN 15986).

1900 Introduction to Geographic Information Systems for Environmental Applications (GEOL 1320)
Interested students must register for GEOL 1320 S01 (CRN 12496).

1920 Analysis and Resolution of Environmental Problems/Case Studies
Combines instruction about how to design research with hands-on experience conducting environmental research. Students develop their own research proposals and begin planning of a potential research project for their senior theses or capstone experience. A class research project is developed on local, state, national or global environmental issues, with the aim to serve community groups, government agencies or firms. Potential topics for class projects include urban adaptation to climate change, land use and watershed protection, and justice elements of energy and climate policy, required for ES concentrators in Junior year. Prerequisite: ENVS 0110 or permission. Enrollment limited to 25 Juniors and Seniors or by permission of instructor.

Spr  ENVS1920  S01  21298  TTh 9:00-10:20(08)  (J. Roberts)

1970 Independent Study
First semester of individual analysis of environmental issues, required for all environmental studies concentrators. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor override required prior to registration.

Fall  1971 Independent Study
Second semester of individual analysis of environmental issues, required for all environmental studies concentrators. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor override required prior to registration.

Spr  (Primarily for Graduates)

2010 Special Topics in Environmental Studies
A mandatory seminar for graduate students in environmental studies. This course develops group problem-solving skills by addressing a current local, national or global environmental issue. We will work on problem definition, identifying options for addressing the problems, and crafting potential solutions. In all stages we work closely with non-profit groups, government agencies, or firms, who have the capacity to implement solutions.

Fall  ENVS2010  S01  11858  F 1:00-3:50(06)  (J. Roberts)

2680 Ecosystem Modeling for Non-Programmers
Emphasizes hands-on experience building ecosystem models. Students build about 8 models in an intensive three-week class in January at the Marine Biological Laboratory, then build their own model as a term project over the Spring semester. Term projects will be in the form of a manuscript formatted for publication in Ecology. Prerequisites: Differential Calculus, Integral Calculus, basic grasp of Ecology and Biogeochemistry. Enrollment limited to 10.

Spr  ENVS2680  S01  21319  'To Be Arranged'  (E. Rastetter)

2980 Reading and Research
First semester of thesis research during which a thesis proposal is prepared. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor override required prior to registration.

Fall  2981 Reading and Research
Second semester of thesis research. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor override required prior to registration.

Spr  2990 Thesis Preparation
For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing a thesis.

Fall  ENVS2990  S01  11943  'To Be Arranged'
Spr  ENVS2990  S01  21391  'To Be Arranged'

Ethnic Studies see Center for Race and Ethnicity

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
114 / French Studies

French Studies

(Primarily for Undergraduates)

0100 Basic French
This is the first half of a two-semester course. Four meetings a week for oral practice. One hour of work outside of class is expected every day (grammar/writing, oral practice, reading). Enrollment limited to 18.

Fall FREN0100 S01 10651 MF 9:00-9:50 & TTh 10:30-11:50(17) (A. Wiart)
Fall FREN0100 S02 10652 MF 10:00-10:50 & TTh 10:30-11:50(17) (A. Wiart)
Fall FREN0100 S03 11425 MF 11:00-11:50 & TTh 10:30-11:30(17) (A. Wiart)
Fall FREN0100 S04 10653 MF 12:00-12:50 & TTh 9:00-10:20(17) (A. Wiart)
Fall FREN0100 S05 13302 MF 1:00-1:50 & TTh 1:00-2:20(17) (A. Wiart)

0200 Basic French
This is the second half of a two-semester course. Four meetings a week for oral practice plus one conversation hour. One hour of work outside of class is expected every day (grammar/writing, oral practice, reading). An accelerated track enables qualified students to go directly to FREN 0500 after FREN 0200. Enrollment limited to 18.

Spr FREN0200 S01 20508 MF 9:00-9:50 & TTh 10:30-11:50(17) (S. Waryn)
Spr FREN0200 S02 20509 MF 10:00-10:50 & TTh 2:30-3:50(17) (S. Waryn)
Spr FREN0200 S03 20510 MF 11:00-11:50 & TTh 2:30-3:50(17) (S. Waryn)
Spr FREN0200 S04 20512 MF 12:00-12:50 & TTh 9:00-10:20(17) (S. Waryn)
Spr FREN0200 S05 23363 MF 1:00-1:50 & TTh 1:00-2:20(17) (S. Waryn)

0220 Reading French in the Arts and Sciences
Designed to develop the reading competence in French for graduate students (or advanced undergraduates with permission of the instructor). Fundamentals of grammar and syntax are emphasized as well as reading skills in the fields of individual students. Successful completion should satisfy the foreign language requirement for graduate students in other departments. (Consult the relevant department.) No prerequisites. Not for graduate-level credit.

Sum FREN0220 S01 60294 MTWTh 9:00-11:00 (J. Blaylock)

0300 Intermediate French I
A semi-intensive elementary review with emphasis on all four skills (listening, speaking, reading, and writing). Class activities include drills, small group activities, and skits. Class materials include an audio CD, videos, a French film, short stories, and various other authentic documents. Prerequisite: FREN 0200 or placement (Previous experience with French is required to take this class). Four meetings per week plus a 50-minute conversation section with TAs. Enrollment limited to 18.

Fall FREN0300 S01 10654 MWF 9:00-9:50 & T 9:00-10:20(17) (M. Nichols)
Fall FREN0300 S02 10655 MWF 12:00-12:50 & T 10:30-11:50(17) (M. Nichols)
Fall FREN0300 S03 13384 MWF 1:00-1:50 & T 1:00-2:20(17) (M. Nichols)

0400 Intermediate French II
Continuation of FREN 0300 but may be taken separately. A four-skill language course that stresses oral interaction in class (three meetings per week plus one 50-minute conversation section). Materials include audio activities, film, and a novel. Short compositions with systematic grammar practice. Prerequisite: FREN 0300, FREN 0200 with permission, or placement. Enrollment limited to 18.

Fall FREN0400 S01 10657 MWF 11:00-11:50(17) (V. Krause)
Fall FREN0400 S02 10658 MWF 1:00-1:50(17) (T. Ravindranathan)
Fall FREN0400 S03 13830 MWF 2:00-2:50(17) (G. Schultz)
Spr FREN0400 S01 205 10:00-10:50(17) (T. Ravindranathan)
Spr FREN0400 S02 20541 MWF 1:00-1:50(17) (T. Ravindranathan)
Spr FREN0400 S03 23371 MWF 2:00-2:50(17) (T. Ravindranathan)

0500 Writing and Speaking French I
A four-skill language course that stresses oral interaction in class. Thematic units will focus on songs, poems, a short novel (E-E Schmitt), two graphic novels (Sattouf, Larcenet), films and a detective novel by Fred Vargas. Activities include a creative project using Comic Life, and a systematic grammar review. Prerequisite: FREN 0400, FREN 0200 with written permission, or placement. Enrollment limited to 18.

Fall FREN0500 S01 10687 MWF 9:00-9:50(17) (A. Wiart)
Fall FREN0500 S02 10688 MWF 10:00-10:50(17) (A. Wiart)
Fall FREN0500 S03 10689 MWF 11:00-11:50(17) (A. Wiart)
Fall FREN0500 S04 10690 MWF 1:00-1:50(17) (A. Wiart)
Fall FREN0500 S05 15091 MWF 2:00-2:50(17) (A. Wiart)
Spr FREN0500 S01 20542 MWF 9:00-9:50(17) (M. Nichols)
Spr FREN0500 S02 20543 MWF 11:00-11:50(17) (M. Nichols)
Spr FREN0500 S03 20544 MWF 2:00-2:50(17) (M. Nichols)

0600 Writing and Speaking French II
Prerequisite for study in French-speaking countries. Class time is devoted mainly to conversation and discussion practice. Writing instruction and assignments focus on essays, commentaries, and to a lesser degree, on story writing. Apart from reading assignments for discussion (press articles and literary excerpts), students select two novels to read. Prerequisite: FREN 0500 or placement. Enrollment limited to 18.

Fall FREN0600 S01 10706 MWF 9:00-9:50(17) (S. Waryn)
Fall FREN0600 S02 10691 MWF 10:00-10:50(17) (S. Waryn)
Fall FREN0600 S03 10695 MWF 12:00-12:50(17) (S. Waryn)
Fall FREN0600 S04 10696 MWF 2:00-2:50(17) (S. Waryn)
Spr FREN0600 S01 20548 MWF 9:00-9:50(17) (L. Seifert)
Spr FREN0600 S02 20549 MWF 10:00-10:50(17) (L. Seifert)
Spr FREN0600 S03 20550 MWF 12:00-12:50(17) (L. Seifert)
Spr FREN0600 S04 20551 MWF 1:00-1:50(17) (L. Seifert)
Spr FREN0600 S05 20552 MWF 2:00-2:50(17) (L. Seifert)

0720 First Year Seminar
Enrollment limited to 20.

0720A From Courtly Love to Postmodern Desire
From twelfth-century courtly literature to contemporary film, this course explores the enduring romance between French culture and Eros. The ambiguities of desire are brought to the fore across changing religious and social contexts. Readings include Duras, Flaubert, Freud, and Baudrillard. Open to students who receive a 5 (AP test), 700 and above (SAT II) or with instructor’s permission. Open to 20 first year students only. Please email Virginia_Krause@brown.edu if you have questions. FYS

Fall FREN0720A S01 10707 MWF 12:00-12:50(12) (V. Krause)

0750 Literature and Social Thought
Is there a “true” America? In which ways is America different from Europe? What characterizes American culture? What does America stand for politically, culturally? In this course we will study networks of ideas and images which have shaped the dominant historical representations of America by French writers, thinkers, travelers during the nineteenth and twentieth centuries. Three short papers.

Fall FREN0750E S01 10708 MWF 12:00-12:50(12) (V. Krause)

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
0760  Intensive Introduction to Literature and Literary Methods
0760A  Introduction à l'analyse littéraire
On what terms and with what tools can we "read" a literary text? An introduction to major periods and genres (the short story, the novel, poetry, theater) of French and Francophile literature and to a range of analytical approaches to the text, including narrative theory, poetics, psychoanalysis and gender studies.

Spr  FREN0760A S01  25415  MWF 12:00-12:50(05)  (T. Ravindranathan)

1010  Masterpieces of French Literature from the Eighteenth Century to the Present
1010A  Littérature et intertextualité: du 18ème siècle jusqu'à nos jours
This chronological survey introduces students to works from diverse genres (e.g., realism, symbolism, postmodernism). Authors to be studied include Marivaux, Prévost, Balzac, Maupassant, Baudelaire, Duras, and Camara Laye.

Spr  FREN1010A S01  25453  TTh 1:00-2:20(10)  (P. Saint-Amand)

1050  Studies in French Literature of the Eighteenth Century
1050H  The Age of Voltaire: Lumières et modernité
A presentation of various aspects of the eighteenth century through its principal representative texts. This course examines the period in its various preoccupations: with philosophy, its discovery of sensibility, the development of libertinism, and the pursuit of liberty. Authors to be read include Voltaire, Marivaux, Rousseau, Sedaine, Diderot, and Françoise de Graffigny.

Spr  FREN1050H S01  25441  TTh 10:30-11:50(09)  (P. Saint-Amand)

1110  Studies in the French Novel
1110F  Le Roman contemporain
In this course we will read a selection of French and Francophone novels from 1990 to 2010. Authors may include Marie Ndiaye, François Bon, Laurent Mauvignier, Pierre Michon, Marie Redonnet, Patrick Chamoiseau and Anada Devi. Excerpts from contemporary criticism will provide certain key concepts with which we will engage through the semester: the real, the everyday, history, genealogy, women's writing, postcoloniality, the "post-modern", etc. Assignments include two critical essays and two class presentations.

Fall  FREN1110F S01  15622  MWF 2:00-2:50(07)  (E. Ahearn)

1310  Special Topics in French Studies I
1310H  Contes et identités francophones
How do folktales define national and ethnic identities in France, Sénégal, the Caribbean, Louisiana, and Canada? How have the study and rewriting of these traditions redefined such identities? We will consider these questions by studying tale-types from all of the above regions, tales specific to each, and literary reworkings of folktales by writers, including d'Aulnoy, Perrault, Pourrat, Diop, and Chamoiseau.

Fall  FREN1310H S01  15638  TTh 1:00-2:20(10)  (L. Seifert)

1310I  Femmes écrivains
This course will both introduce students to important female-authored texts from the 19th century to the present, and address theoretical issues pertaining to women and writing. Topics include: the relation of gender to genre; development of feminist thought; women's relation to masculine literary traditions. George Sand, Rachilde, Colette, Simone de Beauvoir, Marguerite Duras, Annie Ernaux.

Spr  FREN1310I S01  25544  TTh 2:30-3:50(11)

1410  French Culture and Civilization
1410A  Des monstres et de l' anormal
What are monsters and why do they fascinate us so much? How and why do representations of “abnormal” creatures change over time? We will examine these questions through literary, philosophical, and scientific texts from the 16th century to the present. In addition to films, iconography, and criticism, readings will include: Montaigne, Paré, Perrault, d'Aulnoy; Mendès, Lorrain; Bataille, Foucault, Darrieussecq.

Spr  FREN1410A S01  25437  MWF 10:00-10:50(03)  (L. Seifert)

1410G  Paris, Capitale du dix-neuvième siècle
History, politics, revolution, urban planning, architecture, literature and the arts, and critical theory, with emphasis on Napoléon III, Haussmann, Karl Marx, Adolphe Thiers, Balzac, Baudelaire, Flaubert, Rimbaud, Zola, Delacroix, Daumier, Courbet, the Impressionists, and the criticism, of W. Benjamin and T. J. Clark.

Fall  FREN1410G S01  15628  M 3:00-5:20(13)  (E. Ahearn)

1510  Advanced Written and Oral French
Follows FREN 0600 in the sequence of language courses. Development of oral and written skills via presentations, debates, conversation, and discussions on a variety of topics.

Fall 10: Section 1 (CRN 10714): Intro to French film analysis. This course is designed to expand student's understanding of French cinema by working closely with films from various period and styles and learning to analyse them using the correct theoretical tools. Work will entail oral presentations, a weekly film journal and several papers. Readings will be in French and English. Film screenings will be organized outside of class time. The class is in French but some films will be subtitled in English or in French. Enrollment limited to 18. Students MUST register for a filming/screening, and a lecture section. Instructor's permission required.

Fall  FREN1510 S01  10714  MWF 11:00-11:50(04)  (S. Waryn)
Spr  FREN1510 S01  20561  MWF 11:00-11:50(04)

1900  Senior Seminar
1900H  France at War
This seminar considers the impact of warfare on France, its territories, and its former colonies. We will study various instances of violent conflict (civil and revolutionary wars, wars of expansion and of independence, European conflicts, the world wars) at different historical moments through the study of historical, literary, journalistic, and autobiographical sources. Topics include: war and religion, virility and violence, extreme situations and crises of representation, resistance and collaboration, colonization, nationhood, terrorism.

Spr  FREN1900H S01  25449  M 3:00-5:20(13)  (G. Schultz)

1990  Senior Thesis
Independent study in an area of special interest to the student, with close guidance of a member of the staff, and leading to a major paper. Required of candidates for honors, and recommended for all senior concentrators. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course.

Fall, Spr
2110 Studies in French Literature of the Renaissance

2110E "Sorcellerie et Renaissance"
Drawing on literary studies, history, and anthropology, this course explores witchcraft from the Late Middle Ages through the Renaissance. What cultural dynamic produced the figure of the witch, caught up in the interplay of power and knowledge? Close readings of works by demonologists and their critics offer a lens for examining the making of witchcraft theory as well as its eventual demise. Other topics include the imagination and dreams, violence and the sacred. Special attention will be paid to the methodological challenges facing the scholar of early modern literary studies. Readings in Montaigne, Rabelais, Ronsard, Foucault, and Mauss, among others.

Spr FREN2110E S01 25450 W 3:00-5:20(14) (V. Krause)

2130 Studies in French Literature of the Seventeenth Century

2130E Corps et esprits libertins
Throughout the 17th century, writers flouted religious, philosophical, political, sexual, and social norms/dogmas, provoking debate, censorship, and even persecution. This seminar will explore the themes and contexts of libertine thought and practice, as well as the attacks it occasioned in both philosophy and literature. We will study debates about skepticism, Epicureanism, sexual freedom, religious and political dissent, and will read, among others, Montaigne, Charron, Viau, Garasse, Gassendi, Cyrano de Bergerac, La Mothe Le Vayer, Ninon de L'Enclos, Pascal, Molère, La Fontaine, Saint-Evremond, and Deshoulières.

Fall FREN2130E S01 15987 F 3:00-5:20(15) (L. Seifert)

2270 Studies in French Literature of the Nineteenth Century

2270I Naturalisme et positivisme
This seminar studies the naturalist literary "method" and its ideological implications in relation to 19th -century positivist thought and the disciplines it informed. Topics include scientism, anti-clericalism, republicanism, gender and social reform, and the birth of sociology. In addition to several novels from Zola's cycle, Les Rougon-Macquart: Histoire naturelle et sociale d'une famille sous le Second Empire, primary sources include texts by Maupassant, Comte, Taine, Littre, Durkheim. Secondary readings in the sociology of literature and cultural history.

Fall FREN2270I S01 15634 W 3:00-5:20(14) (G. Schultz)

2600C Théories de la littérature
Theory is perhaps the most over-used term in philosophy, in literature, and in the so-called Social Sciences. The main goal of this seminar is to draw a map of the theoretical landscape which has affected the study and the teaching of modern French and Francophone literature during the past fifty years.

Spr FREN2600C S01 25452 Th 4:00-6:20(16) (R. Bensmaia)

2990 Thesis Preparation
For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing a thesis.

Fall FREN2990 S01 10884 'To Be Arranged'
Spr FREN2990 S01 20674 'To Be Arranged'

Gender and Sexuality Studies

(Primarily for Undergraduates)

0090 First Year Seminar
These seminars for first year students provide an introduction to the study of gender and sexuality in social, cultural, political, economic or scientific contexts. Enrollment limited to 20 first year students. FYS WRIT

Fall GNSS0090B S01 15390 TTh 9:00-10:20(08) (G. Cohee)

0090C Reproductive Health: Science and Politics
Reproductive health issues such as contraception, abortion, sexually transmitted infections and gay and lesbian health are some of the most controversial and politically charged issues in the US today. After an introduction to the interpretation of medical literature we will explore scientific, political, religious and cultural aspects of these important public policy issues. Successful national and international programs will be discussed. Although all views are welcome, it is expected that students will be respectful of other's opinions and will incorporate the best available scientific data into their conclusions. Enrollment limited to 20 first year students. FYS DVPS WRIT

Spr GNSS0090C S01 23491 M 3:00-5:20(13) (S. Fox)

0120 Introduction to Gender and Sexuality Studies
Explores the interdisciplinary fields of Gender and Sexuality Studies, considering the relation between formations of gender and those of sexuality across a range of historical and disciplinary contexts. Considers how both sexuality and gender are shaped in relation to race and ethnicity, economic inequality, and the postcolonial legacy. WRIT

Spr GNSS0120 S01 20155 MWF 10:00-10:50(03)

(For Undergraduates and Graduates)

1810 Independent Study and Research
Independent reading and research for upper-level students under the direction of a faculty member. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor's permission required.

Fall

1820 Independent Study and Research
Independent reading and research for upper-level students under the direction of a faculty member. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor's permission required.

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
1960 Special Topics in Gender and Sexuality Studies

1960B Health and Healing in American History
Surveys the history of American medicine in its social and political contexts, including changing understandings of disease, treatment practices, and medical institutions. Focuses on how gender and race have informed how patients and healers have made sense out of pain and disease. WRIT

Fall GNSS1960B S01 14187 TTh 10:30-11:50(09) (D. Weinstein)

1960C Gender, Sexuality, and Science
Examines how American and European science has naturalized differences in the human body and gendered the natural world from the seventeenth through the twenty-first centuries. Will consider historical changes in the scientific study of sex, gender, race, and sexuality, as well as the participation of men and women in scientific work. First-year students require an instructor override to register. WRIT

Spr GNSS1960C S01 24111 TTh 10:30-11:50(09) (D. Weinstein)

1960K TBD
Pending Approval.

Fall GNSS1960K S01 15392 TTh 1:00-2:20(10)

1960L TBD
Pending Approval.

Spr GNSS1960L S01 25145 TTh 1:00-2:20(10)

1960M TBD
Pending Approval.

Spr GNSS1960M S01 25146 TTh 2:30-3:50(11)

1970 Directed Research and Thesis
Independent research under the direction of a faculty member, leading to a thesis. Required of honors candidates. Instructor permission required. Instructor’s permission required. Open to: Undergraduates .

Fall

1980 Directed Research and Thesis
Independent research under the direction of a faculty member, leading to a thesis. Required of honors candidates. Instructor permission required. Instructor’s permission required. Open to: Undergraduates .

Spr

1990 Senior Seminar
A research seminar focusing on the research and writing of the participants. Required of senior concentrators; open to other advanced students by permission. Instructor’s permission required.

Fall GNSS1990 S01 14178 “To Be Arranged”

(Primarily for Graduates)

2010 The Pembroke Research Seminar in Feminist Theory
An advanced research seminar in feminist theory and gender studies. Presentations made by Brown faculty, Pembroke Center fellows, visiting scholars, and students. Offered in conjunction with the Pembroke Seminar. Enrollment Limited to 8.

2010D The Power and Mystery of Expertise
Instructor’s permission required.

Fall GNSS2010D S01 15391 W 10:00-12:30(03)

2020 The Pembroke Research Seminar in Feminist Theory
An advanced research seminar in feminist theory and gender studies. Presentations made by Brown faculty, Pembroke Center fellows, visiting scholars, and students. Offered in conjunction with the Pembroke Seminar. By instructor permission only. Enrollment Limited to 8.

2020D The Power and Mystery of Expertise
Instructor’s permission required.

Spr GNSS2020D S01 25144 W 10:00-12:30(03)

Fall XLIST Courses of Interest to Concentrators in Gender and Sexuality Studies
Courses appropriate for concentration credit.
The following courses have a primary focus on women or gender or make significant use of modes of feminist or queer analysis. They count toward the concentration in Gender and Sexuality Studies. Please check with the sponsoring department for times and locations.

Africana Studies
AFRI 0600 Race, Gender, and Urban Politics
AFRI 1050G Narrating the Radical Self
AFRI 1110 Voices Beneath the Veil
AFRI 1580 Contemporary African Women’s Literature
American Civilization
AMCV 0190A Selling Love, Selling Sex: Romance in Popular Culture
Anthropology
ANTH 2240 Anthropological Approaches to the Body
ANTH 2303 Anthropology of Fertility and Reproduction
Classics
CLAS 1750L Sexual Desire in the Premodern Mediterranean
Comparative Literature
COLT 1810N Freud: Writer and Reader
English
ENGL 0400A Introduction to Shakespeare
ENGL 1310A “Firing the Canon”: Early Modern Women Writers
History
HIST 1975U Gender, Empire and the Nation in the Middle East
Latin
LATN 1110G Latin Love Elegy
Modern Culture and Media
MCM 1501K Seeing Queerly: Queer Theory, Film, Video
Sociology
SOC 0230 Sex, Gender and Society
SOC 1870V Households, Work and Gender

Related courses.
The following courses address issues of women, gender and/or sexuality for part of the semester. They may count toward the concentration with permission of the concentration advisor. Please check with the sponsoring department for times and locations.

Spring XLIST Courses of Interest to Concentrators in Gender and Sexuality Studies
Courses appropriate for concentration credit.
The following courses have a primary focus on women or gender or make significant use of modes of feminist or queer analysis. They count toward the concentration in Gender and Sexuality Studies. Please check with the sponsoring department for times and locations.

Africana Studies
AFRI 0710A Racial and Gender Politics in Contemporary Brazil
AFRI 0990 Black Lavender: Black Gay/Lesbian Plays/Dramatic Constructions in the American Theatre
American Civilization
AMCV 0150J The Boy Problem
AMCV 0190X Global Women: Nurses, Maids and Sex Industry Workers in Developed Countries
AMCV 1901D Motherhood in Black and White
AMCV 1611M Trauma and the Shame of the Unspeakable: The Holocaust, Slavery, and Childhood Sexual Abuse

Comparative Literature
COLT 0810T Oedipus in Theory and Literature
COLT 1812H "Women's Literary Make-up": Mirrors, Maquillage and the Tenth Muse

English
ENGL 1560A Jane Austen and George Eliot
ENGL 1900R Queer Relations: Aesthetics and Sexuality

French
FREN 1310 French Women Writers

Modern Culture and Media
MCM 0901A Unruly Crossings: Queerness, Race and Globalization

Political Science
POLS 2200 Politics, Gender and the Welfare State

Portuguese and Brazilian Studies
POBS 2600M The Word in the Dark: Passion, Quest and Identity in the Universe of Clarice Lispector

Religious Studies
RELS 0080 Gender, Power, God(s)
RELS 0290D Women, Sex and Gender in Islam

Related courses.
The following courses address issues of women, gender and/or sexuality for part of the semester. They may count toward the concentration with permission of the concentration advisor. Please check with the sponsoring department for times and locations.

Anthropology
ANTH 0800 Sound and Symbols: Introduction to Linguistic Anthropology
ANTH 2800 Linguistic Theory and Practice

Archaeology and the Ancient World
ARCH 2010C Architecture, Body and Performance in the Ancient Near Eastern World

Geological Sciences
(Primarily for Undergraduates)

0010 Face of the Earth
Study of Earth's surface (e.g., mountains, rivers, shorelines) and processes which have created and modify it (e.g., glaciation, floods, volcanism, plate tectonics, earthquakes). The goals are to increase appreciation and enjoyment of our natural surroundings and provide a better understanding of environmental problems, natural resources, land use, and geologic hazards. Four labs, plus a field trip. For non-science concentrators (science concentrators should take GEOL 0220), Students MUST register for both components of this course (the lecture and one of the labs) during the SAME registration session. Enrollment limited to 100.
Spr GEOL0010 S01 21679 MWF 1:00-1:50(06) (L. Gromet)

0050 Mars, Moon, and the Earth
Space exploration has revealed astonishing array of surface features on the planets and their satellites. Why are atmospheres on the planets different from Earth's atmosphere? Do other planets represent our past or future environment? Is there life on other planets? The planets and their histories are compared to gain insight and a new perspective on planet Earth.
Fall GEOL0050 S01 12479 MWF 2:00-2:50(07) (J. Head)

0070 Introduction to Oceanography
Examines the ocean's role in global (and local) change, emphasizing the ocean as an evolving, dynamically balanced ecosystem. Focus on physical/chemical/biological systems' interconnections needed to understand the natural variability of the ocean on various time and space scales, from El Niño to global warming. Three lectures, one section meeting weekly; written exercises on oceanographic problems; two field trips to study estuarine and coastal processes.

Fall GEOL0070 S01 21690 MWF 2:00-2:50(07) (S. Clemens)

0160 First-Year Seminar
These seminars for first-year students provide an introduction to Earth, planetary and environmental science through in-depth exploration of topics at the forefront of scientific research and their application to society. Sections provide a highly interactive learning environment and emphasize critical reasoning, research methods, interdisciplinary connections, and effective oral and written communication. No prerequisites. Enrollment limited to 20 first year students. FYS WRIT
Spr GEOL0160F S01 14279 TTh 2:30-3:50(11) (R. Cooper)

0160F Patterns: in Nature, in Society
The shapes of plants and animals, of mountains and shorelines arise because nature dissipates energy as rapidly as possible. These morphological patterns allow description of the "energy" landscape that produced them. Societies and economies show temporal and spatial patterns as well; does the "flow rate" of ideas and of money cause these patterns? We will explore just how "entropy rules." CAP course. Enrollment limited to 20 first year students. FYS WRIT
Fall GEOL0160F S01 15729 MWF 10:00-10:50(03) (J. Hirth)

0160I Diamonds
Examines both the science and human history of diamonds, and shows how they have interacted over the years. Investigates how and where diamonds are formed in nature and what they tell us about the Earth. At the same time, explores the role diamonds have played in our history and culture. CAP course. Enrollment limited to 12 first year students. FYS WRIT
Fall GEOL0160I S01 15929 TTh 2:30-3:50(11) (S. Parman)

0160J The Natural History of Great Writers: From Goethe to Steinbeck
Many great and influential writers have also been natural historians. This course examines selections from the writing of such authors as the romantic and naturalist Johann Wolfgang von Goethe, the rationalist Benedict de Spinoza, the intuitive thermodynamicist William Blake, the naturalist novelist John Steinbeck, the lepidopterist novelist Vladimir Nabokov, the amateur paleontologist Arthur Conan Doyle, the proto-ecologist Henry David Thoreau, and the philosopher and sociologist Herbert Spencer. We will examine in a modern scientific context how facts and theories of natural history informed their writing and influenced their worldviews. Specific topics in this seminar will include: man's place in nature and the importance of the discovery of this deep time perspective, Darwinian evolution and its impact on sociology, and the emerging science of ecology in 19th century American literature. Enrollment limited to 20 first year students. FYS WRIT
Spr GEOL0160J S01 25775 TTh 2:30-3:50(11) (J. Whiteside)

0220 Physical Processes in Geology
Introduction to the form and origin of interior and surface features of Earth, with emphasis on understanding the physical processes that produced them. Topics include interior processes (plate tectonics, mountain building, volcanism, earthquakes), and flow of solid rocks) and surface processes (atmospheric and oceanic circulation, flow of rivers, glaciers, and groundwater). Laboratory and field trips arranged.

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
Fall GEOL0220 S01 12480 MWF 11:00-11:50(04) (J. Tullis)
0230 Geochemistry: Earth and Planetary Materials and Processes
Introduction to the chemical and mineralogical nature of the Earth, Moon, and meteorites, and the role of chemical processes in their evolution. Topics include: composition of rock-forming minerals; origin of crustal and mantle rocks; stable and radiogenic isotopes; models of nucleosynthesis, planet formation and differentiation. Weekly laboratory and two field trips. Intended for science concentrators. Prerequisites: basic chemistry and GEOL 0010 or 0050 or 0220, or instructor permission.
Labs will meet Tuesdays from 7:00 pm to 9:00 pm.
Spr GEOL0230 S01 21695 TTh 2:30-3:50(11) (L. Gromet)
0240 Earth: Evolution of a Habitable Planet
Introduces Earth's surface environment evolution - climate, chemistry, and physical makeup. Uses Earth's carbon cycle to understand solar, tectonic, and biological cycles' interactions. Examines the origin of the sedimentary record, dating of the geological record, chemistry and life on early Earth, and the nature of feedbacks that maintain the "habitable" range on Earth. Two field trips; five laboratories arranged. Prerequisite: GEOL 0220 or instructor permission. WRIT
Spr GEOL0240 S01 21696 TTh 1:00-2:20(10) (T. Herbert)
0250 Computational Approaches to Modeling and Quantitative Analysis in Natural Sciences: An Introduction
Application of numerical analysis to mathematical modeling in the natural sciences including topics such as ground water and glacier flow, earthquakes, climate models, phase equilibrium, and population dynamics. Numerical methods will include the solution of linear algebraic systems of equations, numerical integration, solution of differential equations, time series analysis, statistical data analysis tools. Development of computer programming skills in the Matlab programming environment. Suggested prerequisites: MATH 0090, 0100; PHYS 0030, 0040, or 0050, 0060.
Fall GEOL0250 S01 14617 MWF 10:00-10:50(03) (E. Parmentier)
0310 Fossil Record
Integrated view of the history of life: biogeochemical cycles, biodiversity, evolution by natural selection, ecology, and physiology along a multiplicity of scales from the microbial to the planetary, as recorded in the fossil record. Attention is given to how biotic systems, in contrast to just physical systems, have changed through time maintaining the chemical and thermodynamic non-equilibrium state of the Earth's surface. Two lectures per week; several labs including dissections for paleobiological comparisons and one field trip to fossil localities and museum collections in Connecticut and Massachusetts. Prerequisites: GEOL 0220 or 0230 or 0240, BIOL 0200, or instructor permission.
Fall GEOL0310 S01 12486 TTh 1:00-2:20(10) (J. Whiteside)
0580 Foundations of Physical Hydrology
Qualitative introduction to the dynamics of watersheds and groundwater flow from an intuitive perspective. Lays the foundations for understanding the physical mechanisms by which water is transported throughout a hydrologic system. Provides background for future studies, but is primarily designed to enable informed citizens to thoughtfully critique water management practices and public policy. Pre-college math and physics background is expected.
Fall GEOL0580 S01 12489 MWF 11:00-11:50(04) (J. Hermance)
0810 Planetary Geology
Examines the geology of solid planets. Focuses on a mission to Mars through an understanding of processes that shape planetary surfaces.
Fall GEOL1320 S01 12496 TTh 1:00-2:20(10) (L. Carlson)
1330 Global Environmental Remote Sensing
Introduction to physical principles of remote sensing across electromagnetic spectrum and application to the study of Earth's systems (oceans, atmosphere, and land). Topics: interaction of light with materials, imaging principles and interpretation, methods of data analysis. Laboratory work in digital image analysis, classification, and multi-temporal studies. One field trip to Block Island. Recommended preparation courses: MATH 0090, 0100; PHYS 0060; and background courses in natural sciences.

Spr GEOL1330 S01 24195 TTh 1:00-2:20(10) (J. Mustard)

1350 Weather and Climate
Weather phenomena occur on short time scales, and form the basis for understanding climate, the study of changes over longer time scales. This course aims to provide an understanding of the processes that drive weather patterns, the general circulation of the atmosphere, and climate on Earth. Topics include: structure and composition of the atmosphere; sources of energy driving atmospheric processes; weather forecasting; the hydrological cycle; the forces that create severe weather; the influence of humans on the atmosphere; and factors that influence climate, climate variability and climate change. MATH 0090, 0100; PHYS 0050, or equivalent recommended. After pre-registration, an instructor override is required to register or get on a wait-list. Please see or email instructor: Meredith_Hastings@brown.edu. Enrollment limited to 30. WRIT

Spr GEOL1350 S01 23834 TTh 2:30-3:50(11) (M. Hastings)

1370 Environmental Geochemistry
The course will examine the biogeochemical cycling, fate and transport of chemicals in the atmospheric and aquatic environments. Topics such as chemical weathering, natural water pollution and remediation, acid deposition, global warming and air pollution will be examined through natural ecosystem examples from rivers, lakes, estuaries, and ocean. Field trips and laboratory arranged. Prerequisites: CHEM 0100 or 0330, or instructor permission.

Fall GEOL1370 S01 12498 TTh 9:00-10:20(08) (Y. Huang)

1380 Environmental Stable Isotopes
Introduction to the concepts, analytical methods, theory and environmental applications of stable H, O, C, N and S isotopes. Emphasis will be placed on theory and applications of light isotopes in paleoclimate studies, environmental hydrogeology and biogeochemistry. Prerequisites: CHEM 0100, GEOL 0220 or 0230 recommended, or instructor permission.

Spr GEOL1380 S01 25548 MWF 9:00-9:50(02) (Y. Huang)

1410 Mineralogy
Introduction to mineralogical processes on Earth's surface and its interior. Topics include crystallography, crystal chemistry, nucleation, crystal growth, biomineralization, environmental mineralogy, and mantle mineralogy. Laboratory study devoted to optical identification of rock-forming minerals. Prerequisites: GEOL 0230, CHEM 0100 or 0330, or equivalent.

Fall GEOL1410 S01 12499 TTh 1:00-2:20(10) (Y. Liang)

1420 Petrology
Introduction to the origin of igneous and metamorphic rocks. Emphasis on principles and understanding rather than facts and memorization. Principles are used to extract information concealed in the rocks about their formation, processes, sources and evolution with time. Laboratory work focuses on rock hand samples and microscopic textures. Field trips, laboratory arranged. Prerequisites: GEOL 1410, or instructor permission.

Spr GEOL1420 S01 21703 TTh 9:00-10:20(08) (A. Saal)

1450 Structural Geology
Introduction to the geometry, kinematics and mechanics of rocks deformed by brittle fracture or faulting and ductile solid state flow, on scales from microscopic to mountain ranges. The emphasis is on using concepts to interpret the formation, strain history and rheology of deformed rocks in terms of the operative grain-scale processes, material properties and environmental conditions. Weekly 2 hour lab involving hands-on experience closely related to class topics. Two field trips. Prerequisites: GEOL 220 or instructor permission. WRIT

Spr GEOL1450 S01 21704 TTh 10:30-11:50(09) (J. Tullis)

1580 Quantitative Elements of Physical Hydrology
A comprehensive introduction for science, engineering, mathematics and environmental studies students to all aspects of the physical hydrology of precipitation, surface runoff and groundwater flow. Three lecture/discussion sessions will emphasize the quantitative elements of predictive physical models. Extensive class discussion will assess the practical application of specific models. Group collaboration encouraged. One recitation period/week. Lab. No exams. Prerequisites: APMA 0340, or PHYS 0470, or ENGN 0510, or instructor permission.

Spr GEOL1580 S01 25549 TTh 10:30-11:50(09) (J. Hermance)

1590 Quantitative Modeling of Hydrologic Processes
A quantitative overview of selected topics at the advanced undergraduate and beginning graduate student level of analytical and numerical models for simulating surface runoff, groundwater flow and contaminant migration. While participants will employ computers and scientific visualization to implement the material, no prior computing experience is expected. Non-concentrators encouraged. No exams. Prerequisites: PHYS 0470, or ENGN 0510.

Spr GEOL1590 S01 25830 MWF 11:00-11:50(04) (J. Hermance)

1610 Solid Earth Geophysics
A survey of basic geophysical techniques for determining the structure and dynamics of Earth's interior. Topics include: global structure from seismic waves; gravity, magnetic field, and shape of the Earth; thermal processes within the Earth; structure of continental and oceanic lithosphere. Recommended courses: GEOL 0220, PHYS 0470, APMA 0330. No prerequisites.

Fall GEOL1610 S01 12511 MWF 11:00-11:50(04) (D. Forsyth)

1620 Continuum Physics of the Solid Earth
Physics of the Earth with emphasis on fundamental physical principles and mathematical tools. Topics include application of: conductive and convective heat transfer to cooling of the Earth; potential theory to interpretation of gravity anomalies; solid mechanics to deformation of Earth's lithosphere; fluid mechanics to flow in the Earth's interior and in porous media. Recommended courses: GEOL 0220; APMA 0340; PHYS 0470 or ENGN 0510.

Spr GEOL1620 S01 25551 MWF 1:00-1:50(06) (E. Parmentier)

1650 Earthquake Seismology
Topics include: location of earthquakes in space and time; measures of size and intensity of shaking; body waves, surface waves, and free oscillations; structure of the interior of the Earth from wave propagation; earthquake faulting and relationship to tectonic processes. Recommended course: GEOL 1610. Offered in alternate years.

Spr GEOL1650 S01 25552 TTh 10:30-11:50(09) (K. Fischer)

Geologic applications of remotely sensed information derived from interaction of electromagnetic radiation (X-ray, gamma-ray, visible, near-IR, mid-IR, radar) with geologic materials. Applications emphasize remote geochemical analyses for both terrestrial and

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extraterrestrial environments. Several spectroscopy and image processing labs. GEOL 0230, PHYS 0060, or equivalent recommended.

Fall GEOL1710 S01 14283 MWF 1:00-1:50(06) (M. Wyatt)

1950 Special Topics in Geological Sciences

1950D Field and Tectonics Seminar
Development of field mapping and interpretive skills used in the evolution of complex orogenic terranes. Structural field mapping is carried out in highly deformed metamorphic and igneous rocks in the New England Appalachians, the site of a continental collision associated with the formation of the supercontinent Pangea. Expected: GEOL 0230 and GEOL 1450, or equivalent, and field mapping experience (generally a summer geological mapping course). Students are required to arrive one week prior to the start of classes for the beginning of field work. Instructor permission required.

Fall GEOL1950D S01 15731 ‘To Be Arranged’ (L. Gromet)

1960H The Early Earth
Primary focus on evolution of the solid Earth (core, mantle, crust) but will also include discussion of the Archean hydrosphere, atmosphere and biosphere. Reading and discussing current literature, with lectures. Intended for graduate students and upper level undergraduates with advanced petrology and/or geophysics. Enrollment limited to 20.

Spr GEOL1960H S01 25777 TTh 10:30-11:50(09) (S. Parman)

1970 Individual Study of Geologic Problems
One semester is required for seniors in Sc.B. and honors program. Course work includes preparation of a thesis. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Enrollment is restricted to undergraduates only.

Fall; Spr

(Primarily for Graduates)

2330 Advanced Remote Sensing and Geographical Information Systems
Strategies and the physical principles behind the quantitative extraction of geophysical and biophysical measurements from remotely sensed data. Advanced methods of digital image processing and data integration. Introduction to Geographical Imaging Systems (GIS) and methods of integrating remotely sensed data into a GIS framework. Recommended preparation courses: GEOL 1330 or 1710; MATH 0100; PHYS 0060 or instructor permission.

Fall GEOL2330 S01 15732 ‘To Be Arranged’ (J. Mustard)

2410 Kinetics of Geochemical Processes
Emphasizes kinetic theories and their geological applications. Topics include: rate laws of chemical reaction, rates of chemical weathering; fundamentals of diffusion, nucleation, crystal growth, and dissolution; transport theory. Recommended prerequisite: GEOL 2460 or equivalent.

Spr GEOL2410 S01 25553 TTh 1:00-2:20(10) (Y. Liang)

2440 Petrogenesis of Metamorphic Rocks
Study of metamorphic rocks with emphasis on mineral equilibria, metamorphic facies, and metamorphic facies series. Topics include: metasomatism, mobile components, partial anatexis, and petrogenetic grids. Prerequisite: GEOL 2460. Offered alternate years.

Spr GEOL2440 S01 25554 MWF 11:00-11:50(04) (R. Cooper)

2630 Interpretation Theory in Geophysics
Use basic statistical theory and its matrix algebra representation and modern approaches for the optimum design of experiments, constructing model solutions to measurements, and describing nonuniqueness in models, with particular emphasis on generalized linear-inverse techniques. Introduction to stochastic processes and prediction. Recommended courses: GEOL 1610; MATH 0290, 0520, or APMA 0330, 0340, and computer programming skills. Offered alternate years.

Spr GEOL2630 S01 25555 MWF 2:00-2:50(07) (D. Forsyth)

2730 Isotope Geochemistry
A survey course emphasizing fundamental principles in isotope geochemistry, including nuclear systematics, nucleosynthesis, geochronological and stable isotope systems, and the application of radiogenic and stable isotopic tracers to geological problems. Prerequisites: GEOL 1410 and 1420, or instructor permission.

Fall GEOL2730 S01 12513 TTh 9:00-10:20(08) (L. Gromet)

2800 The Chemistry and Mineralogy of Mars
Examination of the chemical and mineralogical composition of Mars as revealed from meteorites and spacecraft missions. Example topics include: SNC meteorites, origin and evolution of the crust, alteration processes, remote near- and thermal-infrared observations, remote gamma-ray and neutron measurements, and petrology of surface materials. Recommended courses: GEOL 1410, 1420, 1710, or equivalent. No prerequisites.

Spr GEOL2800 S01 25556 TTh 9:00-10:20(08) (M. Wyatt)

2880 Planetary Cratering
Impact cratering affects nearly every solid-body object in the solar system. A major impact can produce relief comparable to the highest terrestrial mountains in just a few minutes. Course assesses the impact cratering process and record in different planetary environments, at different scales, and at different times. Open to Geology graduate students only. Offered alternate years.

Fall GEOL2880 S01 15733 W 3:00-5:20(14) (P. Schultz)

2910 Special Topics in Geological Sciences

2910C The Global Nitrogen Cycle
This seminar course will survey the literature and discuss aspects of the marine, atmosphere, biosphere and geologic cycles of reactive nitrogen. Topics include general evaluation of the N cycle in these systems and records of changes in the N cycle through time, particularly on relevant climate change timescales.

Fall GEOL2910C S01 14298 ‘To Be Arranged’ (M. Hastings)

2920 Special Topics in Geological Sciences

2920A Asteroids and Meteorites
Examination of compositional and petrographic characteristics of meteorites as primitive solar system material. Evaluation of the physical/compositional diversity of asteroids and other small bodies of the solar system. Possible links between specific types of asteroids and meteorite groups are discussed along with implications for early solar system evolution. Critically reviews data from spacecraft encounters with asteroids (e.g., NEAR).

Spr GEOL2920A S01 25831 M 3:00-5:20(13) (J. Head)

2920B Cyclicity and Singularities in the History of Life
Investigates large-scale patterns, processes, and events in the history of life. Attention is focused on links between external and intrinsic forcings by contrasting the macro- and micro-evolutionary and ecological sequences of known cyclical environmental changes (cyclicities) and unique events (singularities). Topics include: climate cyclicity, species flocks, species selection, turnover pulse hypothesis,
cyclical taxonomic turnover, mass extinctions, and key evolutionary innovations. Students will have the opportunity to experiment with different time-evolutive methods.

Spr GEOL2920B S01 21779 W 3:00-5:20(14) (J. Whiteside)

2920K Special Topics in Geological Sciences: The Hydrological Cycle on Mars
Evidence for the changing hydrological cycle on Mars, ranging from what appears to be an early warm and wet Mars, through history to the present very cold polar desert Antarctic-like environment will be examined. Ongoing rover exploration of Mars will be followed to assess what these new results are telling us about the hydrological cycle.

Spr GEOL2920K S01 25557 W 3:00-5:20(14) (J. Head)

2920R Evolution of the Moon
Petrological, geochemical, and geophysical observations, physical and chemical processes relevant to the formation and evolution of the Moon.

Fall GEOL2920R S01 15735 'To Be Arranged' (Y. Liang)

2970 Preliminary Examination Preparation
For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing for a preliminary examination.

Fall GEOL2970 S01 15736 'To Be Arranged'
Spr GEOL2970 S01 25558 'To Be Arranged'

2980 Research in Geological Sciences
Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Enrollment is restricted to graduate students only.

Fall; Spr

2990 Thesis Preparation
For graduate students who have met the tuition requirements and are paying the registration fee to continue active enrollment while preparing a thesis.

Fall GEOL2990 S01 12936 'To Be Arranged'
Spr GEOL2990 S01 21778 'To Be Arranged'

German Studies
(Primarily for Undergraduates)

0100 Beginning German
A course in the language and cultures of German-speaking countries. Four hours per week plus regular computer and listening comprehension work. At the end of the year, students will be able to communicate successfully about everyday topics. This is the first half of a year-long course whose first semester grade is normally a temporary one. Neither semester may be elected independently without special written permission. The final grade submitted at the end of the course work in GRMN 0100 covers the entire year and is recorded as the final grade for both semesters. Enrollment limited to 20.

Fall GRMN0100 S01 11351 MWF 11:00-11:50 & T 12:00-12:50(17) (J. Sokolosky)
Fall GRMN0100 S02 11353 MWF 12:00-12:50 & T 12:00-12:50(17) (J. Sokolosky)
Fall GRMN0100 S03 11355 MWF 1:00-1:50 & T 12:00-12:50(17) (J. Sokolosky)

0110 Intensive Beginning German
Students who wish to complete the GRMN 0100-0200 sequence in one semester may do so by enrolling in GRMN 0110 for two semester course credits. There are six hours per week in small drill sections conducted by fluent undergraduate teaching apprentices. Another three hours of class will be conducted by the faculty instructor. Students must register for both the lecture section and one conference. Enrollment limited to 16.

Spr GRMN0110 S01 20954 TTh 9:00-10:20(08) (A. Brueggemann)

0200 Beginning German
A course in the language and cultures of German-speaking countries. Four hours per week plus regular computer and listening comprehension work. At the end of the year, students will be able to communicate successfully about everyday topics. This is the second half of a year-long course. Students must have taken GRMN 0100 to receive credit for this course. The final grade for this course will become the final grade for GRMN 0100. If GRMN 0100 was taken for credit then this course must be taken for credit; if taken as an audit, this course must also be taken as an audit. Exceptions to this policy must be approved by both the academic department and the Committee on Academic Standing. Enrollment limited to 20.

Fall GRMN0200 S01 20958 MWF 12:00-12:50 & T 12:00-12:50(17) (J. Sokolosky)
Spr GRMN0200 S02 23821 MWF 1:00-1:50 & T 12:00-12:50(17) (J. Sokolosky)

0300 Intermediate German I
Focuses on deepening students’ understanding of modern German culture by reading texts and viewing films pertinent to Germany today. Intended to provide a thorough review of German grammar and help students develop their writing, reading, listening, and speaking skills. Frequent written assignments. Four hours per week. Recommended prerequisite: GRMN 0200.

Fall GRMN0300 S01 11363 MWF 10:00-10:50 & Th 12:00-12:50(17) (J. Sokolosky)
Fall GRMN0300 S02 11364 MWF 2:00-2:50 & Th 12:00-12:50(17) (J. Sokolosky)

0400 Intermediate German II
An intermediate German course that stresses improvement of the four language skills: listening, writing, reading, and speaking. Some grammar review as needed. Frequent written assignments. Topics include German art and literature. Students read short stories, novels and work with iPads. Four hours per week. Recommended prerequisite: GRMN 0300.

Spr GRMN0400 S01 20961 MWF 10:00-10:50 & Th 12:00-12:50(17) (J. Sokolosky)
Spr GRMN0400 S02 20962 MWF 11:00-11:50 & Th 12:00-12:50(17) (J. Sokolosky)

0500 Advanced German I
While continuing to work on all four language skills students gain more intensive knowledge of topics in twentieth-century German culture. Recommended prerequisite: GRMN 0400. WRIT

0500F German Culture, 1945 to Present
A broad exploration of German culture since 1945 using many kinds of written and visual texts (e.g. literature, journalism, film, art). While continuing to work on all four language skills (speaking, listening, reading, writing) students will gain more intensive knowledge about German culture, society, and history. In German. Recommended prerequisite: GRMN 0400. WRIT

Fall GRMN0500F S01 15635 MWF 9:00-9:50(02) (C. Poore)

0600 Advanced German II
While continuing to work on all four language skills students gain familiarity with fundamental concepts in German cultural history.

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
Recommended prerequisite: one course in the GRMN 0500 series.

WRIT

**0600B Was ist Deutsch?**
In this course we will examine some of the ideas and myths used over the centuries to unify Germans and give them a sense of their heritage and distinctiveness: concepts like 'das Reich' or 'Bildung', figures like 'Barbarossa' or 'der deutsche Michel.' In some cases we may find the same words ('Freiheit' or 'Gesellschaft') have very different connotations. Conducted in German. Recommended prerequisite: one course in the GRMN 0500 series. WRIT

Spr GRMN0600B S01 20964 MWF 2:00-2:50(07) (K. Goodman)

**0990 German Literature in Translation**
This course provides students who don't read German with an opportunity to study German literature in translation. Course topics include the German novel, German poetry, and German drama. In English. LILE

**0990C Introduction to Scandinavian Literature**
An introduction to major works of Scandinavian writers, painters and filmmakers over the past 150 years. Figures include Kierkegaard, Ibsen, Strindberg, Munch, Hamsun, Josephson, Sodergran, Lagerkvist, Vesaas, Cronqvist, August and Vinterberg, as well as children's books by Astrid Lindgren and Tove Jansson. In English. LILE

Spr GRMN0990C S01 25454 TTh 10:30-11:50(09) (A. Weinstein)

**0990D The German Novel From Classicism to Realism**
What is a novel, and how did it emerge as such a dominant genre in the course of the 18th and 19th centuries? This course introduces some of the most important German prose works prior to the 20th century, including texts by Goethe, Novalis, Hoffmann, Droste-Hülshoff, and Stifter. We will begin with the novel's earliest classical forms, follow its development in tandem with genres such as the fantastic tale and the novella, and end with a discussion of realism. All readings and discussions in English; no German language proficiency required. LILE

Spr GRMN0990D S01 25455 MWF 12:00-12:50(05) (Z. Sng)

(For Undergraduates and Graduates)

**1090 Advanced Written and Spoken German**
Designed to increase the range, fluency, and accuracy of idiomatic expression through written and oral practice, and to improve students' reading skills of progressively more difficult authentic texts from a variety of subject areas. Discussions, group projects, and oral reports. Review of selected grammar topics, systematic vocabulary building. Not to forget: "Deutsch macht Spass!" In German. Recommended prerequisite: one course in the GRMN 0600 series. WRIT

Fall GRMN1090 S01 11370 MWF 10:00-10:50(03) (C. Poore)

**1340 The Modern Period**
Introduction to the German literature of the twentieth and twenty-first century. In German or English.

**1340M Kafka's Writing**
Writing—vocation or duty, gift or curse, poison or antidote? This course provides an introduction to Kafka's stories, novels, journal entries, and letters, with a focus on his complicated, tortured relationship to the idea and practice of writing. We will explore how the difficulties of this relationship generate an enigmatic, tragi-comic oscillation between hope and despair that continues to fascinate readers today. This is a writing-intensive course, and the frequent short assignments will involve drafts, revisions, and individual consultations, with the aim of getting you to think critically about your own relationship to writing about literature. In English. Enrollment limited to 40. WRIT

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Fall GRMN1340M S01 15954 TTh 1:00-2:20(10) (Z. Sng)

**1440 Studies in Literary Genre**
Introduction to particular genres in German literature. In German or English.

**1440D Modernity and Its Discontents: The German Novella**
After the failed revolution of 1848, the German bourgeoisie had to curb its desire to control the sphere of politics. At the same time, the effects of modernization started to manifest themselves in full force. We will discuss how the revolutionary changes of the second half of the 19th century in Germany were worked through in literature, and specifically in the realist novella. Readings by C.F. Meyer, Keller, Stifter, Storm, Raabe, Fontane, Mörke, and Heyse. In German. Recommended prerequisite: one course in the GRMN 0600 series. LILE

Fall GRMN1440D S01 15636 TTh 10:30-11:50(09) (T. Kniesche)

**1440F Lyric Poetry From the Middle Ages to the Present**
Broad exploration of German poetry, including intersections between poetry/music/art: spiritual/worldly (medieval troubadours, Baroque); classical Greece/modern Germany (Goethe, Schiller, romantics, art songs); poetry/politics (Heine, Brecht), expressions/symbols (Rilke, expressionism), poetry after Auschwitz (Celan, Bachmann), contemporary reflections on history (V. Braun), poetry between cultures (Turkish-German poets, hip-hop). Intensive reading, discussions and vocabulary building. In German. Recommended prerequisite: one course in the GRMN 0600 series.

Spr GRMN1440F S01 25457 TTh 1:00-2:20(10) (C. Poore)

**1450 Seminars in German Literature**
Specialized topics in German Literature in German or English. Prerequisite: one course in the GRMN 0600 series.

**1450A German-Jewish Literature**
From emancipation to anti-Semitism and from the "Golden Age" to the Shoah, Jewish life in Germany has experienced extremes comparable to no other cultural exchange. In this class, we will explore the German-Jewish encounter by reading literary texts written by German-Jewish authors. Readings by Lessing, Mendelssohn, Heine, Kafka, Jurek Becker, and others. In English. LILE

Spr GRMN1450A S01 25459 MWF 11:00-11:50(04) (T. Kniesche)

**1660 Studies in German Culture**
Interdisciplinary approaches to German culture. In German or English.

**1660F After Hitler: German Culture and Politics, 1945 to Present**
From the country that produced Hitler and the Holocaust to today's democratic, peaceful Germany, this course explores the enormous cultural and political transformations since 1945 in both German states and reunified Germany. Topics include: responses to the Nazi past, Germany and Europe, protest movements, migration patterns, women, popular culture, socialism in East Germany, political and intellectual debates, recent assertions that Germany is now a "normal" country. In English.

Spr GRMN1660F S01 25460 TTh 10:30-11:50(09) (C. Poore)

**1900 Senior Seminar**
Advanced students of German culture will pursue their own interests pertaining to a designated topic related to the humanities in general. Common readings, general discussions and individual class presentations will facilitate the development of individual projects. In German and English. Required for concentrators, written permission required for others.

**1900D Fleeing the Nazis: German Culture in Exile, 1933-1945**
When the Nazis came to power in Germany in 1933 this caused one of the biggest brain drains in history. We will trace the lives of leading experts in a variety of fields such as literature, music, philosophy, and
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the sciences and ask questions such as: Why did they leave? Where did they go? How did they do in their new environment? What did they say about their exile afterwards? Specific persons and places of exile will be studied according to the interests of the seminar participants. In German. Recommended prerequisite: one course in the GRMN 0000 series. Open to seniors only.

Spr GRMN1900D S01 25461 W 3:00-5:20(14) (T. Kniesche)

1970 Independent Study

Independent study on a particular topic related to German culture. In German or English. At the discretion of the instructor. Please check Banner for the correct section number and CRN to use when registering for this course.

Fall; Spr

1990 Senior Conference

Special work or preparation of an honors thesis under the direction of a faculty member. Please check Banner for the correct section number and CRN to use when registering for this course.

Fall; Spr

(Primarily for Graduates)

2320 Literature of the Eighteenth Century

Graduate work in German literature of the 18th century. In German or English.

2320C Enlightened Laughter

We follow the development of German comedy and theory of comedy and laughter from the late Baroque to the Enlightenment, comparing comedies and theoretical texts with foreign examples. What kind of laughter is appropriate for a bourgeois stage? A German stage? Why is laughing important? What kind? Texts by Weise, Prehauser, the Gottscheds, Gellert, J. A. Schlegel, Lessing, also Molère, Destouches, Farquhar, Graffigny. German texts read in German. Prerequisite: Graduate standing or permission.

Fall GRMN2320C S01 15640 W 3:00-5:20(14) (K. Goodman)

2320E Political Romanticism

What, if anything, is political about Romanticism? We will read the literary and non-literary writings of British and German romantic authors, with a focus on their complex relationship to political ideas, political practice, and the very concept of "the political." We will also consider why the question of Romanticism's relationship to politics has been re-visited with such insistency in the 20th century. Authors include W. Wordsworth, P. B. Shelley, Coleridge, Friedrich Schlegel, Novalis, and Kleist. All readings and discussions in English.

Spr GRMN2320E S01 25796 M 3:00-5:20(13) (Z. Sng)

2340 Studies in German Culture: The Modern Period

Graduate Work in topics in German literature of the twentieth and twentieth-first centuries. In German or English.

2340C German Modernism

This seminar will explore German literary modernism from around 1880 to the 1930s. Schools and authors to be studied will include Naturalism (Hauptmann, Holz, Schlaff), Neo-Romanticism and Symbolism (Hofmannsthal, Rilke, George), Expressionism (Toller, Benn, Kaiser, Brecht), and New Objectivity (Kästner, Döblin, Fallada). In German. Required proficiency: GRMN 0600.

Fall GRMN2340C S01 15641 TTh 2:30-3:50(11) (T. Kniesche)

2660 Interdisciplinary Studies

Graduate work in interdisciplinary aspects of German Studies. In German or English.

2660H Historicism/Photographic Media: From Kracauer and Benjamin to the DEFA Documentary

How does the emergence of photographic media--photography and film--affect concepts of historicity and historical experience? And how do philosophical concepts of history and historicity inform the aesthetics of film and of documentary film in particular? Taking Kracauer's critique of photography and Benjamin's work on film, photography and the philosophy of history as its point of departure and focusing on longitudinal documentaries from the former GDR, West Germany and Switzerland, this course proposes an inquiry into the relationship of photographic media and philosophical concepts of historicity. Readings and discussions in English.

Spr GRMN2660H S01 25463 TTh 2:30-3:50(11)

2970 Preliminary Examination Preparation

For graduate students who have met the tuition requirement and are paying the Registration Fee to continue active enrollment while preparing for a preliminary examination.

Fall GRMN2970 S01 11386 'To Be Arranged'
Spr GRMN2970 S01 20993 'To Be Arranged'

2980 Reading and Research

Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course.

Fall; Spr

2990 Thesis Preparation

For graduate students who have met the tuition requirement and are paying the Registration Fee to continue active enrollment while preparing for a thesis.

Fall GRMN2990 S01 11399 'To Be Arranged'
Spr GRMN2990 S01 21003 'To Be Arranged'

Fall XLIST Courses of Interest to Students Concentrating in German Studies

The following course may be of interest to students concentrating in German Studies. Please check the course listing of the sponsoring department for time and location.

Comparative Literature

COLT 2820P Aesthetics and the 18th Century Subject

Spring XLIST Courses of Interest to Students Concentrating in German Studies

The following course may be of interest to students concentrating in German Studies. Please check the course listing of the sponsoring department for time and location.

Modern Culture and Media

MCM 1201Q German Cinema and Colonial Fantasy after the End of Colonialism

Greek see Classics

Haitian Creole see Latin American and Caribbean Studies

Hebrew see Judaic Studies

Hindi-Urdu see Center for Language Studies

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
Hispanic Studies

Catalan

(Primarily for Undergraduates)

0100 Introduction to Catalan
This course introduces students to Catalan culture and boosts their oral and writing skills through a wide range of resources: Internet, television, radio, cinema, and music.

Fall CATL0100 S01 12037 MW 9:00-10:40(02) (C. Benet Cros)

0200 Catalan Language and Culture
An intermediate course which introduces students to Catalan culture and allows them to review and extend their knowledge of all basic patterns (e.g. grammar, vocabulary, phonetics, sociocultural norms) of the language. Students will develop their oral and written skills by describing, narrating, and presenting arguments. They will work with texts and audio-visual material that will provide them with a deeper understanding of Catalan literature, culture, and contemporary society. Classes will be conducted in Catalan. Therefore a basic knowledge of Catalan literature is a prerequisite or students may request the instructor's permission to take the course.

Spr CATL0200 S01 21468 MTWTh 12:00-12:50(05) (C. Benet Cros)

0300 Introduction to Catalan Culture
The course will begin with an introduction to Catalan grammar. After students have a basic command of the language, they will be encouraged to read a wide range of texts written in Catalan related to many different topics. The texts have been selected not only for their linguistic value, but also because of the cultural aspects they introduce. The course will include activities designed to teach students about Catalonia, its culture and its traditions. For example, students will have the opportunity to listen to songs, watch films, news reports, etc. All texts will be provided by the professor and handed out in class. Students are welcome to bring to class any Catalan text of their interest. Classes will be conducted in Catalan as much as possible. Therefore, some knowledge of another Latin language is required.

Fall CATL0300 S01 12040 TTh 10:00-11:50(01) (N. Schuhmacher)
Spr CATL0300 S01 21469 MTWTh 12:00-12:50(05) (C. Benet Cros)

Hispanic Studies

(Primarily for Undergraduates)

0100 Basic Spanish
This fast-paced beginning course provides a solid foundation in the development of communicative skills in Spanish (speaking, listening comprehension, reading and writing) as well as some insight on the cultures of the Spanish-speaking world. Individual work outside of class prepares students for in-class activities focused on authentic communication. Placement: students who have never taken Spanish before, or have scored below 390 in SAT II, or below 200 in the Brown Placement Exam. Students who have taken Spanish before and those with an AP score of 3 or below must take the Brown Placement Exam. Students should check Placement and Course Description in the Undergraduate Program section of the Hispanic Studies Website. Enrollment limited to 18; 15 spaces are available for students during pre-registration. 3 spaces will be available at the start of the semester for incoming or re-admitted students who should attend the first class. Pre-enrolled students must attend the first four days of class to maintain their pre-registered status and notify the instructor in advance if they must miss any day before the 4th class when the composition of the course section is finalized. If course is full, students should sign the wait list available in Rochambeau House, 84 Prospect St., Room 217 during the pre-registration period.

Fall HISP0100 S01 12041 MW 9:00-9:50 & TTh 9:00-10:00(01) (V. Smith)
Fall HISP0100 S02 12042 MW 1:00-1:50 & TTh 1:00-2:00(01) (V. Smith)
Fall HISP0100 S03 12043 MW 11:00-11:50 & TTh 10:30-11:50(01) (V. Smith)
Fall HISP0100 S04 12044 MW 1:00-1:50 & TTh 1:00-2:00(01) (V. Smith)

0110 Intensive Basic Spanish
Pending Approval. Students who wish to complete the HISP 0100-0200 sequence in one semester may do so by enrolling in HISP 0110 for two semester course credits. Enrollment limited to 18.

Fall HISP0110 S01 15368 “To Be Arranged” (N. Schuhmacher)

0200 Basic Spanish
A continuation of HISP 0100. This course continues to focus on acquisition of communicative skills (speaking, listening comprehension, reading and writing) as well as cultural awareness. With successful completion of the course students will be able to understand simple texts, carry on short spontaneous conversations involving everyday topics such as modern day life and its pressures, health, sports, career, travel, community, health issues, traveling, multiculturalism and human rights, and allows them to review and extend their knowledge of all basic patterns (e.g. grammar, vocabulary, phonetics, sociocultural norms) of the language. Students will develop their oral and written skills by describing, narrating, and presenting arguments. They will work with texts and audio-visual material that will provide them with a deeper understanding of Catalan literature, culture, and contemporary society. Classes will be conducted in Catalan. Therefore a basic knowledge of Catalan literature is a prerequisite or students may request the instructor's permission to take the course.

Spr HISP0200 S01 21479 MW 9:00-9:50 & TTh 9:00-10:00(01) (N. Schuhmacher)
Spr HISP0200 S02 21481 MW 10:00-10:50 & TTh 10:30-11:50(01) (N. Schuhmacher)
Spr HISP0200 S03 21482 MW 1:00-1:50 & TTh 1:00-2:00(01) (N. Schuhmacher)
Spr HISP0200 S04 21484 MW 12:00-12:50 & TTh 1:00-2:00(01) (N. Schuhmacher)

0300 Intermediate Spanish I
This course continues to develop and strengthens students' proficiency in the Spanish language, as well as to help them increase their cultural understanding. It seeks to develop both fluency and accuracy and to teach students to express, interpret, and negotiate meaning in context. Through the exploration of themes such as the individual and the community, health issues, traveling, multiculturalism and human rights, students focus on communication and learn to appreciate cultural differences. Pre-requisite: HISP 0200 or placement: SAT II scores between 460 and 510, or Brown Placement Exam scores between 324 and 373. Students with an AP score of 3 or below must take the Brown Placement Exam. Students should check Placement and Course Description in the Undergraduate Program section of the Hispanic Studies Website. Enrollment limited to 18; 15 spaces are available for students during pre-registration. 3 spaces will be available at the start of the semester for incoming or re-admitted students who should attend the first class. Pre-enrolled students must attend the first four days of class to maintain their pre-registered status and notify the instructor in advance if they must miss any day before the 4th class when the composition of the course section is finalized. If course is full, students should sign the wait list available in Rochambeau House, 84 Prospect St., Room 228 during the pre-registration period.

Spr HISP0300 S01 21485 MW 12:00-12:50 & TTh 1:00-2:00(01) (N. Schuhmacher)

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
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students should sign the wait list available in Rochambeau House, 84 Prospect St., Room 228 during the pre-registration period.

Fall HISP0300 S01 12073 MW 9:00-9:50 & TTh 9:00-10:20(18) (N. Schuhmacher)
Fall HISP0300 S02 12075 MW 10:00-10:50 & TTh 10:30-11:50(18) (N. Schuhmacher)
Fall HISP0300 S03 13221 MW 10:00-10:50 & TTh 9:00-10:20(18) (N. Schuhmacher)
Fall HISP0300 S04 13366 MW 12:00-1:20 & TTh 12:00-12:50(18) (N. Schuhmacher)
Spr HISP0300 S01 21488 MW 10:00-10:50 & TTh 10:30-11:50(18) (N. Schuhmacher)

0400 Intermediate Spanish II
This course offers an exploration of the Spanish language and Hispanic cultures through a variety of thematic foci: the world of work, the arts, globalization and technology, leisure, and celebrations. It focuses on vocabulary building, the development of some of the more difficult points of grammar, and moving students towards a more sophisticated level of comprehension and expression. Students work with readings, including literary texts; songs; film; and the visual arts. Prerequisite: HISP 0300 or placement: SAT II scores between 520 and 590 or Brown Placement Exam scores between 374 and 423. Students with an AP score of 3 or below must take the Brown Placement Exam. Students should check placement and course description in the Undergraduate Program section of the Hispanic Studies Website. Enrollment limited to 18; 15 spaces are available for students during pre-registration. 3 spaces will be available at the start of the semester for incoming or re-admitted students who should attend the first class. Pre-enrolled students must attend the first four days of class to maintain their pre-registered status and notify the instructor in advance if they must miss any day before the 4th class when the composition of the course section is finalized. If course is full, students should sign the wait list available in Rochambeau House, 84 Prospect St., Room 113 during the pre-registration period.

Fall HISP0400 S01 12093 MW 9:00-9:50 & TTh 9:00-10:20(01) (V. Smith)
Fall HISP0400 S02 12094 MW 10:00-10:50 & TTh 10:30-11:50(01) (V. Smith)
Spr HISP0400 S01 21501 MW 9:00-9:50 & TTh 9:00-10:20(01) (V. Smith)
Spr HISP0400 S02 21502 MW 10:00-10:50 & TTh 10:30-11:50(01) (V. Smith)
Spr HISP0400 S03 23671 MW 9:00-9:50 & TTh 9:00-10:20(01) (V. Smith)

0500 Advanced Spanish I
Offers comprehensive work in listening, speaking, reading, and writing, with targeted grammar review. Students work with a variety of readings (literature, newspaper articles, etc.) and with art forms such as music and film, in order to develop oral and written expression and to explore issues relevant to the Hispanic world. Students explore topics of their own interest through student-led activities and presentations.
Prerequisite: HISP0400 or placement: SAT II scores between 600 and 660, Brown Placement Exam scores between 424 and 490, or AP score of 4 in language or literature. Please check Hispanic Studies website (Undergraduate Programs) for course descriptions and placement information. Enrollment limited to 18; 15 spaces are available for students during pre-registration. 3 spaces will be available at the start of the semester for incoming or re-admitted students who should attend the first class. Pre-enrolled students must attend the first four days of class to maintain their pre-registered status and notify the instructor in advance if they must miss any day before the 4th class when the composition of the course section is finalized. If course is full, students should sign the wait list available in Rochambeau House, 84 Prospect St., Room 217 during the pre-registration period.

Fall HISP0500 S01 12096 MW 1:00-1:50 & TTh 1:00-2:20(18) (S. Sobral)
Fall HISP0500 S02 12097 MW 10:00-10:50 & TTh 10:30-11:50(18) (S. Sobral)
Fall HISP0500 S03 12098 MW 11:00-11:50 & TTh 10:30-11:50(18) (S. Sobral)
Fall HISP0500 S04 12099 MW 2:00-2:50 & TTh 1:00-2:20(18) (S. Sobral)
Fall HISP0500 S05 12100 MW 9:00-9:50 & TTh 9:00-10:20(18) (S. Sobral)
Spr HISP0500 S01 21505 MW 1:00-1:50 & TTh 1:00-2:20(18) (S. Sobral)
Spr HISP0500 S02 21507 MW 11:00-11:50 & TTh 10:30-11:50(18) (S. Sobral)
Spr HISP0500 S03 21508 MW 10:00-10:50 & TTh 9:00-10:20(18) (S. Sobral)

0600 Advanced Spanish II
Offers continued, advanced-level work in speaking, listening, reading, and writing skills, with focused review of challenging aspects of Spanish grammar. Course materials include films, music, art works, and a variety of written texts (articles, stories, plays, a novella, etc.) chosen to promote class discussion and in-depth written analysis. There will be individual and group activities, including in-class presentations and creative writing projects. Prerequisite: HISP0500 or placement: SATII scores between 670 and 740, Brown Placement Exam scores between 491 and 550, or AP score of 5 in language. Please check Hispanic Studies website (Undergraduate Programs) for course descriptions and placement information. Enrollment limited to 15; 12 spaces per section are available for students during pre-registration. 3 spaces per sections will be available at the start of the semester for incoming or re-admitted students who should attend the first class. Pre-enrolled students must attend the first four days of class to maintain their pre-registered status and notify the instructor in advance if they must miss any day before the 4th class when the composition of the course section is finalized. If course is full, students should sign the wait list available in Rochambeau House, 84 Prospect St., Room 225 during the pre-registration period. Students with scores of 750 and above on the SAT II, 551 on the Brown Placement Exam, or 5 in AP Literature should consider offerings in the HISP 0730-0740-0750 range.

Fall HISP0600 S01 12101 MWF 11:00-11:50(17) (B. Bauer)
Fall HISP0600 S02 12102 MWF 1:00-1:50(17) (B. Bauer)
Fall HISP0600 S03 12103 MWF 10:00-10:50(17) (B. Bauer)
Fall HISP0600 S04 12104 MWF 12:00-12:50(17) (B. Bauer)
Fall HISP0600 S05 13222 MWF 9:00-9:50(17) (B. Bauer)
Fall HISP0600 S06 13223 MWF 1:00-1:50(17) (B. Bauer)
Spr HISP0600 S01 21509 MWF 2:00-2:50(17) (B. Bauer)
Spr HISP0600 S02 21510 MWF 12:00-12:50(17) (B. Bauer)
Spr HISP0600 S03 21511 MWF 11:00-11:50(17) (B. Bauer)
Spr HISP0600 S04 23301 MWF 10:00-10:50(17) (B. Bauer)
Spr HISP0600 S05 23302 MWF 1:00-1:50(17) (B. Bauer)
Spr HISP0600 S06 23672 MWF 11:00-11:50(17) (B. Bauer)

0730 Early and Contemporary Writers of Spanish America
An introduction to major authors, movements, and themes of Spanish American literature from the Discovery to the present. This course also aims to develop students’ oral and written expression in Spanish. Students are expected to engage in close reading and discussion of texts, as well as to revise their papers. Prerequisite: HISP 0500 or placement by exam, AP or Brown Placement Test. WRIT DVPS LILE

Fall HISP0730 S01 15369 TTh 9:00-10:20(08) (A. Mazzucchelli)
Spr HISP0730 S01 21513 TTh 1:00-2:20(10) (N. Wey-Gomez)

0740 Intensive Survey of Spanish Literature
An introduction to the major authors and literary movements of Spanish literature from the Middle Ages to contemporary times. Focuses on building critical vocabulary. Also aims to develop students’ written and oral expression in Spanish. Preparatory course for 1000-level courses for students who achieve the highest placement in Spanish. Prerequisite: HISP 0600, or AP score =5, or SAT II (Literature) score of 750 or above, or Brown placement score of 551 or above. WRIT

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
**0750 Topics in Hispanic Culture and Civilization**
Addresses the interdisciplinary study of Hispanic cultures as manifested in history, literature, and the arts, as well as in the every day discourses of a culture (film, television, journalism). An ancillary aim is to develop students’ written and oral expression in Spanish. Prerequisite: HISP 0600 or placement: SAT II scores of over 750, 5 in AP Literature or 551 and over in the Brown Placement Exam.

**0750A Cultures of Violence**
Studies wide-range treatments of violence in Hispanic literature and film. We address such problems as intercultural violence in the early transatlantic encounter between Europe and the Americas; honor protocols in Golden Age Spain; state-sanctioned bloodshed in the southern coen; class-conflict and narco-politics in Colombia; endemic violence in Latin America’s megacities. Particular attention is devoted to the patriarchal family and state as agents of violence in these works. Conducted in Spanish. Prerequisite: HISP 0600 or placement: SAT II scores of over 750, 5 in AP Literature or 551 and over in the Brown Placement Exam.

**0750B Hispanics in the United States**
Designed to bridge academic learning about Hispanic/Latino culture and volunteer work in agencies serving Hispanics in Providence. Readings, films, and guest presentations focus on issues of concern to these groups. Spanish language learning occurs in the classroom and the community, where students have the opportunity to enrich and test course content. Prerequisite: HISP 0600 or placement: SAT II scores of over 750, 5 in AP Literature or 551 and over in the Brown Placement Exam. Enrollment limited to 20.

**0750D Mexico, Image and Encounter**
An exploration of portrayals of contemporary Mexican culture and attitudes in the media, art and literature, and by means of an on-line dialogue with Mexican university students. Special emphasis on Mexico City and Tijuana and the perspectives of regional, foreign, and social outsiders. Analysis of films, travel guides/accounts, and readings by Monsiváis, Pacheco, Poniatowska, Swain, Villoro, etc. Enrollment limited to 20 first year students. FYS

**0750L Urban Reels: Latin American Cities in Film**
How are our notions of Latin American urban space influenced by images projected by Hollywood and popular American culture? How do these projections compare to the representations of Latin American filmmakers? Who is the intended public for all of these images? In this course, we will unite perspectives from urban studies, film studies, and literary criticism to trace the creation of the Latin American urban landscape in the popular imaginary through contemporary film production. The films viewed will be paired with short readings that offer alternative portrayals of the cities in question. Taught in English; no prior film study required. Enrollment limited to 20.

**1210 Studies in Spanish Literature of the Middle Ages**
Introduction to the genealogy and development of the Spanish language. Includes the historical and cultural events that deeply influenced the shaping of the language, the nature of Medieval Spanish, and the development of the language beyond the Iberian Peninsula, especially in the Americas. This course will make the history of Spanish accessible to anyone with a knowledge of Spanish and a readiness to grasp basic linguistic concepts. Prerequisite: HISP 0730 or 0740.

**1240A Fashion and the Fictions of Identity in Early Modern Spain Pending Approval.** In the early modern period, styles of clothing and fabrics were meant to provide visible markers of status, gender, ethnicity, and nationality. Yet, as dramatists, novelists, and poets were keenly aware, clothing could conceal as much as reveal. It could trick the eye and seduce it. It could blur hierarchies of difference even as it constructed them. In other words, clothing often created fictions of identity, and fiction itself frequently made clothing the focus of action and thematic exploration. The purpose of this course is to trace the connections between fashion and fiction in a period of Spanish history of unprecedented social and economic change. Close readings of literary texts will be complemented by studies of visual sources (e.g., portraits and cityscapes), as well as samples of legislation and moral debates related to fashion.

**1240M Vision and Visuality in the Spanish Baroque Pending Approval.**
Prerequisite: HISP 0740 or (HISP 0730 and 0750).

**1240N Literature of the City in Golden Age Spain Pending Approval.**

**1290 Literature of the Spanish Twentieth Century**

**1290Q El Quijote desde el siglo XXI: lecturas modernas y postmodernas Pending Approval.**
Se propone una lectura a fondo del Quijote teniendo en cuenta la recepción que la novela ha tenido en la Modernidad y la Postmodernidad, en particular por parte de los mismos novelistas.

**1330 Studies in Spanish American Literature**

**1330C Indigenous Literatures of Latin America**
En este curso estudiaremos la produción literaria, mita y legendaria de los pueblos latinoamericanos, las redes locales y escenarios globales en que se sitúa esta producción cultural popular. Nos detendremos en textos quechuas, mapuches, mayas y aztecas, tanto de la tradición oral como de la escrita. Veremos también las formas híbridas, como son las crónicas, negroides y mestizas. Nos interesa seguir las sagas populares, su diálogo con lo moderno, y los grandes autores que han formalizado la conciencia étnica y la política plurinacional. Veremos también documentales y películas que interpretan el mundo indígena.

**1240 Studies in Spanish Literature of the Golden Age**

**1240Q El Quijote desde el siglo XXI: lecturas modernas y postmodernas Pending Approval.**

**1290R Novela y cine en la España democrática Pending Approval.**
A partir de la lectura y visionado de algunas novelas y películas fundamentales se discutirá la imagen de la España democrática en la ficción literaria y cinematográfica.

**1290C Indígenas en la literatura del siglo XXI: lecturas modernas y postmodernas Pending Approval.**

*Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.*
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1330N All the World a Stage: The Early Transatlantic Encounter in Golden Age Theater

Studies the transformation of historical accounts about the Spanish discovery and conquest of the Americas in the work of major playwrights of the Spanish Golden Age. Students will be asked to consider the complex transactions between historicity and poetics in the works of authors such as Lope de Vega, Calderón, Tirso de Molina and the Indies chroniclers. Prerequisite: HISP 0730 or 0740.

Spr HISP1330N S01 25131 TTh 10:30-11:50(09) (N. Wey-Gomez)

1370V Mujeres Malas

Este curso está dedicado a investigar las representaciones literarias de la mujer en la sociedad patriarcal. Esas versiones de la mujer nos permitirán estudiar la ideología tradicional pero también los conflictos modernos en la construcción de roles y funciones de género.

Fall HISP1370V S01 15375 TTh 10:30-11:50(09) (J. Ortega)

1700 Stylistics and Linguistics: El cuento en América Latina (Taller de Crítica)

Este curso está dedicado a estudiar el lenguaje literario y sus estilos en los relatos orales, leyendas y mitos, así como cuentos y microrelatos, de narradores fundamentales en este género: Quiroga, Borges, Ruífo, Cortázar, Arreola, Monterroso, Ribeyro, Ampuero, y autores más recientes. El análisis será formal y metódico, y estudiaremos el funcionamiento del estilo y la lengua literaria para ejercitarnos en la creatividad del español. Enrolment limited to 20.

Spr HISP1700 S01 25167 T 3:00-5:20(16) (J. Ortega)

1900 Capstone Course

1900L Theories of Literature and Culture in a Hispanic Context

Introduces key contemporary perspectives in the fields of literary and cultural theories from a transatlantic perspective. Emphases will be on definition of literature, theories of the novel and of literary genres, theories of interpretation, Latin American and Spanish theoretic perspectives like hybridism, "transculturación" and the theory of Baroque, and a revision of modern approaches to culture (critical theory, ecology, gender theory, post-structuralism, etc.). Spanish and Latin American texts will be used as a counterpoint to theory. Offered for senior concentrators in the Hispanic Studies department in their last semester. Readings by Carpentier, Nietzsche, Aristotle, Derrida, Foucault, Deleuze, Simmel, Paz, Borges, Abram, Rama and others. Open to senior Hispanic studies concentrators.

Fall HISP1900L S01 15376 TTh 1:00-2:20(10) (A. Mazzucchelli)

1990 Senior Conference

Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course.

Fall; Spr

(Primarily for Graduates)

2030 Studies in Spanish Literature of the Middle Ages

2030B History and Fiction: Literature of the 15th Century

The goal of this course is to familiarize students with major literary works of the Fifteenth Century, and their socio-cultural background. Major works of three outstanding poets of this period (Juan de Mena, Íñigo López de Mendoza, and Jorge Manrique), satirical and historical writings, romances, (ballads sung with instrumental accompaniment), Alfonso Martínez de Toledo's Corbacho and Fernando de Rojas' Celestina will be presented in the context of the distinct cultural traditions that coexisted in Spain.

Spr HISP2030B S01 25132 M 3:00-4:50(13) (M. Vaquero)

2160 Seminar in Spanish Literature of the Golden Age

2160J The Poetics and Practice of Space in the Theater of the Spanish Baroque

This seminar will explore the real and virtual spaces of seventeenth-century Spanish drama. We will examine the diverse spaces in which theatrical performances took place (public playhouses, city streets, court theaters, convents), as well as the various types of spaces represented on the stage (domestic and public, urban and rural, worldly and supernatural, familiar and distant). How did dramatic space articulate the boundaries of the public and private in the Spanish baroque? How did it function in the configuration of social hierarchies, subjectivities, and marginal as well as normative identities? In the theatrical world of seventeenth-century Spain, how did spatial practices on stage shape the experience of space off stage?

Fall HISP2160J S01 15990 W 3:00-5:20(14)

2350 Studies in Spanish American Literature

2350H The History of Wonder in Colonial Spanish American Lettres

The notion of wonder (asombro, maravilla) played a determining role in the Spanish and Creole writings of the Spanish American colonial period. The volatile aesthetic of wonder raises and implicates such important issues as otherness, exoticism, category crisis, and identity formation. A studies course examining the role of wonder in New World historiographic and literary writings of the 16th and 17th centuries.

Spr HISP2350H S01 25134 F 3:00-4:50(15) (S. Merrim)

2520 Seminar: Spanish American Literature

2520O The Old Science in the New World: Nature, Culture, and Empire in the Age of Exploration

Studies how Spain's exploration and conquest of the Americas tested European understandings of the natural world; of nature's bearing on human psycho-physiology and, thereby, on culture; and of the balance between normality and deviance in natural and human domains. Topics range from changing theories about the distribution of land and life around the globe to "natural" and "moral" histories implicated in a debate over Spain's rights to the Americas and its peoples. Readings: Aristotle, Strabo, Pliny, Ptolemy, Columbus, Vespucci, Oviedo, Las Casas, and Acosta. Students will be able to read primary texts in either Spanish or English. Discussion in English. Undergraduates welcome.

Fall HISP2520O S01 15378 T 3:00-4:50(13) (N. Wey-Gomez)

2520P Narrativa latinoamericana contemporánea (De Juan Rufio a Diamelia Eltit)

Estudiaremos los modos de representación, prácticas de escritura y lectura, redes culturales, tramas sociales y políticas de los relatos de la modernidad crítica y diferencia latinoamericana. Autores: Cortázar, García Márquez, Fuentes, Bryce, Rodríguez, Juliá.

Fall HISP2520P S01 15379 Th 3:00-4:50(11) (J. Ortega)

2900 Theory and Methods of Foreign Language Teaching

How are second languages acquired? How can instruction optimize acquisition? How do we evaluate, improve or create effective teaching materials? This course introduces the theory of foreign language learning and teaching and seeks to help language teachers implement communicative language teaching through reflective practice. Written permission required for undergraduates.

Spr HISP2900 S01 21803 T 3:00-4:50(11) (S. Sobral)

2970 Preliminary Examination Preparation

For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing for a preliminary examination.

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
2980 Research in Spanish and Latin American Literature
Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course.
Fall; Spr

2990 Thesis Preparation
For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing a thesis.
Fall; Spr

2991 Thesis Preparation
Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course.
Fall; Spr

History
(Primarily for Undergraduates)

0020 Europe since the French Revolution
A survey of European history from the middle 18th century until recent times. The themes include the transformation of a traditional society, industrialism, revolutionary movements, ideological changes, imperialism, fascism, communism, and the present state of European civilization. M

0170 Great Modern European Thinkers
This course will introduce you to the intellectual and cultural history of Europe from the late eighteenth century to the present. Through a broad study of ideological and artistic currents—including liberalism, romanticism, Marxism, surrealism, and fascism, and postmodernism—we will examine the changing attitudes of Europeans towards modern life. Enrollment limited to 20.

0410 Introduction to East Asian Civilization: China
This course is both an introduction to Chinese history from earliest times to present and an introduction to historical analysis. The course is open to all students without prerequisite and assumes no prior knowledge of the material. During the course we will examine the changing conception of empire in traditional China and how China became a nation-state in the modern period. We will focus on the interactions between the Chinese and their neighbors, especially the steppe nomads from the north and westerners from Inner Asia and Europe. This course also aims to help students to understand modern China by emphasizing the connections between the past and the present. Readings and weekly discussion sessions focus on the interpretation of primary sources (in translation) and the nature of historical evidence and argument. E

0420 Introduction to East Asian Civilization: Japan
A broad-based survey that begins with the formation of a distinctive lifestyle in prehistoric times and continues through Japan’s emergence to a modern nation today. Particular emphasis is placed on understanding the fundamental cultural values and aspirations of Japanese who lived in various historical periods and analyzing their attempts to create particular political, social, and economic systems that would give life to those dreams and ambitions. Instructor permission required. E

0510 American History to 1877
A survey of social, cultural, and political trends from colonial times to Reconstruction focusing primarily on the lives of ordinary Americans. E

0520 American History since 1877
A survey of social, cultural, and political trends from 1877 to the present focusing primarily on the lives of ordinary Americans. M

0720 A Checkered Past: The United States and the "Third World," 1945-Present
An indelible post-9/11 image was that of international headlines proclaiming "We are All Americans Now." However, not everyone shared that sentiment, prompting many Americans to ask "why do they hate us?" Part of the answer lies in the history of U.S. policy. This course examines the history of the relationship between the United States and the regions of the world (Africa, Asia, Latin America, and the Middle East) that collectively came to be known as the "Third World." No prerequisites, although a basic knowledge of American history and an active interest in current affairs and international politics are suggested. M

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Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
1000 Ancient Greek History

1000B The Shaping of the Classical World: Greeks, Jews, and Romans
Focuses on the ancient Greeks, Romans, and Jews, from 300 B.C.E. to 400 C.E. Covers primarily social, philosophical, and religious areas of contention and accommodation, ending with the late Antique, Christianity, and rabbinic Judaism. P

Spr HIST1000B S01 25246 TTh 1:00-2:20(10) (K. Sacks)

1020 Living Together: Muslims, Christians, and Jews in Medieval Iberia
While in most of medieval Europe Christians predominated numerically and culturally, in medieval Spain they were often overshadowed by people of the other two monotheistic faiths, Islam and Judaism. The course explores the diverse world of medieval Spain from the Visigothic prelude to the momentous events of 1492. Particular focus on the social, cultural, and political modes of interaction among Christians, Jews and Muslims. P

Fall HIST1020 S01 15481 TTh 9:00-10:20(8) (A. Remensnyder)

1040 Europe in the High Middle Ages (ca. 1000-ca. 1450)
Popes named Joan, Gothic cathedrals, and crusaders—all these were produced by rich world of the western European Middle Ages. The cultural, religious, and social history of this period are explored with special attention to the social construction of power, gender roles, and relations between Christians and non-Christians. P

Spr HIST1040 S01 23469 TTh 9:00-10:20(8) (A. Remensnyder)

1090 Black Freedom Struggle Since 1945
Interested students must register for AFRI 1090 S01 (CRN 16038).

1220 European Intellectual and Cultural History: Exploring the Modern, 1880-1914
A sequel to HIST 1210 focusing on radical intellectual and cultural currents that challenged and destabilized the assumptions of Victorian high culture during the fin de siecle. Through a careful reading of primary texts by Hobhouse, Nietzsche, Weber, and Freud. The course explores issues such as the rise of mass consumer culture, neoliberal and neofascist politics, philosophic irrationalism, psychoanalysis, and the woman question. WRIT M WRIT

Fall HIST1220 S01 15482 MWF 1:00-1:50(06) (M. Gluck)

1230 European Intellectual History: Exploding the Modern
The overarching theme of the course is the relationship between modernity and the primitive as manifested in major cultural, aesthetic and political movements in the 20th century. Films are an integral part of the course. WRIT M

Spr HIST1230 S01 25247 MWF 1:00-1:50(06) (M. Gluck)

1280 English History, 1529-1660
Examines politics, religion, and society from the Protestant Reformation to the Puritan Revolution—a period of rapid and dramatic change when the world, for most English people, was turned upside down. Considers the experiences and concerns of ordinary men and women, as well as the elite. Takes in Scotland, Ireland, and the great migration to New England. P

Fall HIST1280 S01 11857 MWF 2:00-2:50(07) (T. Harris)

1290 British History, 1660-1800
A survey of British history from the restoration of monarchy to the Wilkes affair and the loss of the American colonies. In addition to political developments such as the Glorious Revolution and the rise of party, examines political ideology (including the great political theorist, John Locke) and various themes in social history (such as crime,
popular protest, the sexual revolution, and the experiences of women).  

1310 Empire to Cool Britannia: Twentieth-Century Britain  
One hundred years ago the greatest power in the world, Great Britain today is merely a junior partner in the new Europe. Yet is the history of Britain in the twentieth century chiefly a story of decline? Themes include the effects of the two world wars, the political incorporation of labor, decolonization and immigration, state expansion, and mass culture.  

1380 Peasant Rebellion and Popular Religion in China  
Treats the role that religious beliefs played in inspiring and guiding popular protest and peasant rebellion in China up to the present. We will discuss the relationship between folk beliefs and the Three Teachings (Confucianism, Taoism, Buddhism) and state efforts to regulate religious belief. Then, through a series of case studies (the Eight Trigrams uprising, the Taiping rebellion, and the Boxer movement), we will examine how religious belief shaped both the ideology and the actions of protesters and rebels. We will conclude with a consideration of the place of religion in contemporary China.  

1410 Modern Russia to the Revolution  
This course provides a broad survey of the history of Russia from the reign of Ivan the Terrible in the 16th century to the Revolution of 1905, when the Romanov dynasty faced crisis and collapse. The following themes are emphasized in the lectures and readings: the emerging stratification of society; the expansion of the Russian empire; Russia and the West (including diplomatic and cultural relations); economic development; and the growth of the Russian intelligentsia.  

1420 Twentieth-Century Russia  
Successive phases of the Soviet experience from the Russian Revolution of 1917 through the Gorbachev era. Topics include the Russian Revolution and the Civil War, Collectivization, the Purges, the Second World War, the Cold War, and the dissolution of the Soviet system.  

1440 Islamic History, 1400-1800  
A survey of the major sociopolitical alignments of the central parts of the old world from 1400 to 1800. Particular attention given to the Ottoman, Safavi, and Mughal empires, which spanned much of these lands ca. 1500-1750. Concentrates on the socioeconomic and cultural environment within which the main institutions of these empires developed.  

1450 History of the Modern Middle East, 1800-1918  
Transformation of Middle Eastern societies and polities from 1800 to 1918 under the impact of growing Western economic, political, and cultural domination. The rise of new patterns of economic organization, governance, sociopolitical alliances, and cultural tastes in Ottoman Turkey, Arab lands, and Iran.  

1490 History of Medicine I: Medical Traditions in the Old World Before 1700  
People have always attempted to promote health and prolong life, and to ameliorate bodily suffering. Those living in parts of Eurasia also developed textual traditions that, together with material remains, allow historians to explore their medical practices and explanations, including changes in their traditions, sometimes caused by interactions with other peoples of Europe, Asia, and Africa. The course will introduce students to the major medical traditions of the Old World to about 1700, with an emphasis on Europe, and explore some of the reasons for change. A knowledge of languages and the social and natural sciences is welcome but not required. Not open to first year students.  

1491 History of Medicine II: The Development of Scientific Medicine in Europe and the World  
From the 18th century onward, Western medicine has claimed universal validity due to its scientific foundations, relegating other kinds of medicine to the status of "alternative" practices. The course therefore examines the development of scientific medicine in Europe and elsewhere up to the late 20th century, and its relationships with other medical ideas, practices, and traditions. Students with a knowledge of languages and the social and natural sciences are welcome but no prerequisites are required. Not open to first year students.  

1510 History of Modern China I:  
1510A China's Late Empires  
A post-nationalist perspective on history in China from 1200-1930, with emphasis on empire--formation, gender, and daily life in the Mongol Yuan, Chinese Ming, and Manchu Qing empires, as well as nationalist reconstructions of the Chinese past in the early twentieth century.  

1520 Modern China  
Examines competing visions of twentieth-century China as seen from the vantage points of various regimes in China, as well as Taiwan, Hong Kong, and Tibet. Emphasizes changing relations among these places and China's place in the history of the rise and fall of international socialism, feminism, decolonization, the cold war, and the emergence of East Asian capitalism. Lecture with discussion.  

1530 Modern Korea: Contending with Modernity  
This course examines the extraordinarily rapid revolution of Korea from isolated, agrarian society into a culturally modern, industrialized, and democratized nation that is an important actor on the world stage. It also will investigate how a non-Western society generates its own inspiration for human relations, social structure, political and cultural values. Includes coverage of North Korea. Instructor permission required.  

1550 From Amsterdam to Istanbul: Jews in the Early Modern World  
Pending Approval. What can history of a minority teach us about the history of Europe? Using text, pictures, and music, we will examine the relationship of Jewish and non-Jewish societies in the early period, focusing on how the development of the modern state and the blurring of cultural boundaries within the Jewish world and between Jews and non-Jews transformed concepts of identity. New patterns of Jewish life in the Atlantic world, the Ukrainian steppe, and the Middle East, as well as the cultural revolutions which led to the codification of Jewish law and the spread of Kabbalah, will be examined.  

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
1551 A Commonwealth of Many Nations? Early Modern Poland-Lithuania
Pending Approval. The Polish-Lithuanian Commonwealth was the largest state in early-modern Europe, home to a diversity of ethnic and religious groups. We will examine how they lived together and interacted in this unique setting. The rise of the nobility and development of Poland's constitutional monarchy show how Polish identity was transformed. The interaction of Germans, Italians, Scots, and Jews as "national" groups within urban society, and the economic dynamism of Jews and Armenians reveal the possibilities and problems of social integration. The experiences of Protestants, the Ukrainian Orthodox population, and the Moslem Tatars demonstrate the meaning and limitations of Polish religious tolerance.

Spr HIST1551 S01 25295 MWF 10:00-10:50(03)

1580 Making of Modern South Asia
This course will examine the making of modern South Asia, from the decline of Mughal rule and the emergence of Company Raj, up to the present. The course will particularly focus on colonialism and nationalism, the relationship between the colonial state and post-colonial nation-states of South Asia, to understand concepts of empire, resistance and 'postcoloniality'. M

Fall HIST1580 S01 14203 TTh 9:00-10:20(08) (V. Zamindar)

1590 Beyond Hindu, Muslim: Recovering Early South Asia
This course will examine the recovery of early South Asia through history, archaeology and art, from the discovery of the Indus valley civilization to the establishment of Mughal rule, paying particular attention to colonial and post-colonial constructions and contestations over 'antiquity' and the making of Hindi, Buddhist and Muslim civilizations. M

Spr HIST1590 S01 24127 MWF 9:00-9:50(02) (V. Zamindar)

1620 Colonial Latin America
Colonial Latin America, from Columbus's voyage in 1492 to Independence in the nineteenth century, was the creation of three peoples: Europeans, Native Americans, and Africans. The Spanish and Portuguese conquerors brought with them the world of the Crusades, the Inquisition, and the Renaissance. Native Americans lived there already, in rich empires and hunter-gatherer bands. Africans came as slaves from Senegal, Nigeria, Congo and Angola, bringing old traditions and creating new ones. These diverse peoples blended together to form a new people. This was a place of violence, slavery and oppression -- but also of art, faith, new societies and new ideas. First-year students require instructor permission. P

Spr HIST1620 S01 25250 MWF 2:00-2:50(07)

1630 Modern Latin America I
This course offers an introduction to the history of Latin America, beginning with the late colonial period and running through the close of the twentieth century. Emphasis is placed on political, social, and cultural history; less attention is paid to diplomatic and economic history. M

Spr HIST1630 S01 23470 TTh 1:00-2:20(10) (J. Green)

1660 The Mexican Revolution
An in-depth study of the Mexican Revolution. The focus is on the years of revolutionary violence (1910-1920), but considerable attention is also paid to the roots of the Revolution and to its socioeconomic and political impact in the period 1920-1940. M

Fall HIST1660 S01 15853 MWF 11:00-11:50(04) (R. Cope)

1670 History of Brazil
This course charts the history of Brazil from Portuguese contact with the indigenous population in 1500 to the present. It examines the country's political, economic, social, intellectual, and cultural development to understand the causes, interactions, and consequences of conflict, change, and continuity within Brazilian society. E

Fall HIST1670 S01 11938 TTh 1:00-2:20(10) (J. Green)

1740 Civil War and Reconstruction
Examines the origins of the Civil War, the war itself, and the period of Reconstruction. Analyzes the transformation of society, politics, and culture during this period, with special emphasis on slavery and emancipation, the revolutionary nature of the war, and the meanings and legacies of reunion. Not a course on military history. M

Spr HIST1740 S01 24129 MWF 12:00-12:50(05) (M. Vorensberg)

1750 Politics and Culture in the U.S. Since 1945
History of the United States between the end of World War II and turn of the recent century. Major themes and topics include race and civil rights, women's history and feminism, the Cold War, Vietnam, and U.S. foreign policy, suburbanization and the urban crisis, the rise and fall of the welfare state, and a history of consumption and popular culture. E

Fall HIST1750 S01 13751 TTh 2:30-3:50(11) (R. Self)

1820 American Urban History to 1870
Both a survey covering urbanization in America from colonial times to the present, and a specialized focus exploring American history from an urban frame of reference. Examines the premodern, "walking" city from 1600-1870. Includes such topics as cities in the Revolution and Civil War, the development of urban services, westward expansion, and social structure. E

Fall HIST1820 S01 15486 MWF 9:00-9:50(02) (H. Chudacoff)

1890 Empires in America to 1890
This course surveys the development of American foreign relations from initial encounters between Native Americans and newly arrived Europeans to the extension of EuroAmerican power beyond the continental United States. By being attentive to a wider global context, we will attempt to understand the trajectory of "America" from a colonial hinterland to dominant world power. E

Fall HIST1890 S01 13530 MWF 12:00-12:50(12) (N. Shibusawa)

1900 American Empire Since 1890
This survey of twentieth-century US foreign relations will focus on the interplay between the rise of the United States as a superpower and American culture and society. Topics include: ideology and U.S. foreign policy, imperialism and American political culture, U.S. social movements and international affairs, and the relationship between U.S. power abroad and domestic race, gender and class arrangements. M

Spr HIST1900 S01 23472 MWF 11:00-11:50(04) (N. Shibusawa)

1930 Cross-Disciplinary Historical Studies (Lecture Courses)

1930A History of American School Reform (EDUC 1200)
Interested students must register for EDUC 1200 S01 (CRN 23663).

1930B Academic Freedom on Trial: A Century of Campus Controversies (EDUC 1740)
Interested students must register for EDUC 1740 S01 (CRN 15724).

1930C The Century of Immigration (AMCV 1611Z)
Interested students must register for AMCV 1611Z S01 (CRN 24736).

1950 Portuguese Navigations and Encounters with Civilizations

1950E Europe and the Indian Ocean, 1500 - 1800

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
This course aims to characterize the Indian Ocean in the early modern period and examine the complex relationship between this lively world and a variety of European players. The classical topics related to the economic history of maritime Asia and how the trading world of the Indian Ocean was impacted by different Western powers (the Portuguese Estado da India, the European commercial companies) will be addressed. However, the course will focus on a set of relevant social and cultural phenomena, ranging from the interaction between European and Asian political, religious, scientific and artistic structures to the indigenization of individuals, groups and "micro-societies," or the formation and circulation of mutual ethnographical images. P

Fall HIST1950E S01 12272 MWF 10:00-10:50(03)

1950F From Morocco to China: Frontier Societies, Cultural Brokers, Multiple Identities in Portuguese Empire
This course focuses on the study of social and cultural forms of hybridism within the Portuguese early modern empire. By exploring the interaction between Portuguese soldiers, missionaries and a variety of litoral societies stretching from Morocco and West Africa to Brazil and Asia, the course will discuss both profile and role of those go-betweens and cultural brokers that easily moved between distinct cultural worlds. The creation and development of multiple social, ethnic and "national" identities is also under consideration. P

Spr HIST1950F S01 21576 MWF 9:00-9:50(02)

1960 Cross-Disciplinary Historical Studies (Capstone Seminars)

1960D Africa Since 1950 (AFRI 1060A)
Interested students must register for AFRI 1060A S01 (CRN 15933).

1965 Social Change in the 1960s
The 1960s continue to resonate in today's culture as the decade left an indelible imprint on the present society. This course focuses on the tumultuous decade and incorporates the following topics: the Civil Rights Movement, race and ethnicity, the Women's Movement, the Peace movement, student movements, Vietnam War and foreign policy, sexuality, and cultural productions (music, film, art, photography). Lectures are rooted in historical narratives, but engage with interdisciplinary methodologies. In this way, as the semester unfolds we witness the complexity, the intertwining of movements and issues, and the evolution of cultural and political ideas and policy. First-year students require instructor permission. M

Spr HIST1965 S01 25297 MWF 1:00-1:50(06) (F. Hamlin)

1970 Undergraduate Capstone Seminars on Interpretations of History
Enrollment limited to 20. Qualified undergraduates with the consent of individual instructors, may register for 2000-level graduate seminars.

1970H American Legal and Constitutional History, 1780-1920
Undergraduate seminar on selected topics in American legal and constitutional history, focusing mainly on the period before the twentieth century. Examines recent debates surrounding such subjects as the making and meaning of the U.S. Constitution; law as an instrument of economic development and exploitation; crime and punishment in the early republic; construction of racial and gender categories through law; and the evolution of rights-consciousness. Enrollment limited to 20. Students should contact the instructor before the beginning of the semester if they are interested in taking the course. Instructor permission required. M

Fall HIST1970H S01 14736 M 3:00-5:20(13) (M. Vorenberg)

1970J Families and Secrets
Today we live in a "confessional culture". A family's most intimate secrets are no longer considered sacred. We will chart the shifting boundaries between what was considered private and public in Britain and the U.S. from the Victorian era to the 1980s. Topics: skeletons in the cupboard (the mentally disabled child, bankruptcy, the gay uncle) as well as the means by which family secrets were outed (the memoir, the tabloid paper, the divorce case). Instructor permission required.

Spr HIST1970J S01 25251 Th 4:00-6:20(16) (D. Cohen)

1970L The Jewish Problem
Jewish history took a dramatic turn at the end of the 18th century; having previously lived in a condition of relative isolation, many European Jewish communities began winning citizenship in modern nation-states. The inclusion of Jewish minorities raised questions about the nature of citizenship for Jews and non-Jews alike: Who made up the nation? Was religion a key component of citizenship? Could the outsiders of the past be considered the compatriots of the future? Collectively, these questions made up "the Jewish problem," which will be the subject of this course. We will examine both the origins of the "problem" and the range of assimilationist, anti-Semitic, nationalist and Zionist solutions that were articulated. Enrollment limited to 20. M

Spr HIST1970L S01 25252 Th 4:00-6:20(16) (M. Mandel)

1970S Perceptions of the Other and Ethnographical Writing in Early Modern Portugal
Pending Approval. No description available. Enrollment limited to 20. Fall HIST1970S S01 15487 F 3:00-5:20(15)

1971L History of Islamic Law: Theory and Practice
Highlights of the development of a religiously inspired legal tradition which guided individuals, social relations, commercial transactions, and concepts of governmental legitimacy in Islamic lands. How did the theory and procedures of this tradition develop? How did it adapt to changing times and circumstances? How did it interact with other sources of right? Enrollment limited to 20 juniors, seniors, and graduate students with a background in Middle East and/or Islamic history. Instructor permission required. E

Spr HIST1971L S01 25254 W 3:00-5:20(14) (E. Akarli)

1971P Identity Conflicts in Mid East History, 1900- Present: A Proseminar thru Memoirs, Novels, and Films
A critical study of selected memoirs, novels, and films (in English translation) as mirrors of identity conflicts and problems in Middle Eastern history since 1900. How competing political agendas and ideologies, differences in social background, gender and education, and changing conditions help shape, reshape, and blur collective as well as individual identities. M

Students must meet the following conditions for registration in this seminar:
(1) Background knowledge of Middle East history and cultures. Students must have taken at least one survey course taught by Akarli, or courses focusing on the Middle East taught through Religious Studies, Comparative Literature, Political Science, and Anthropology departments.
(2) A senior or junior student status
(3) Concentration in one of the following fields: History, Middle East Studies, International Studies, Comparative Literature, Religious Studies, or Development Studies.
(4) Instructor's written permission will be required when the conditions above do not apply.

Fall HIST1971P S01 15488 W 3:00-5:20(14) (E. Akarli)

1971Z Memoirs and Memory: The Individual Experience of Modern Jewish Life
By comparing memoirs from the early modern period through contemporary times and from widely diverging geographical settings such as eastern, central and western Europe, North Africa, the U.S., and Palestine/Israel, this course considers how Jews in different historical settings have understood their Jewishness and their relationship to their past, as well as the historian's view in this relationship. Enrollment limited to 20. M

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
Fall  HIST1971Z  S01  14208  W 3:00-5:20(14)  (M. Mandel)

1972D Prejudice in Early Modern England
Examines English attitudes towards the "other" in the period from the Reformation to the early Enlightenment. Utilizing a combination of theoretical and secondary readings and primary source materials, the course will investigate English prejudices against and stereotypes of religious minorities within England (Catholics and Puritans), the non-English peoples of The British Isles (Scots, Welsh and Irish), continental Europeans (particularly the Spanish, the French and the Dutch), and the non-Christian other (Jews, Turks, and Blacks) during a period of revolutionary upheaval. Enrollment limited to 20. P

Spr  HIST1972D  S01  24134  M 3:00-5:20(13)  (T. Harris)

1972V Modernity, Jews, and Urban Identity in Central Europe, 1867-1938
This course will explore the intersections between cultural modernity and assimilated Jews in central European cities such as Berlin, Vienna, Prague and Budapest in the 19th and 20th centuries. Enrollment limited to 20. M

Spr  HIST1972V  S01  24136  Th 4:00-6:20(16)  (M. Gluck)

1972Z Minority Peoples of China
Examines the history of minority populations of China, where there are today 55 officially recognized ethnic minority communities. We will look at how minority identity and experience has shaped and been shaped by intertwined histories of ethnic classification, notions of human diversity, and broader social and political currents of the late nineteenth and early twentieth centuries, ranging from nationalism, communist "class struggle," and tourism. Readings will be drawn heavily from anthropological accounts of minority groups, and address the Miao, Yi, Zhuang, and Uighur, among others. The course should be of interest to students of the comparative history of race and ethnicity. Enrollment limited to 20. M

Fall  HIST1972Z  S01  14218  Th 4:00-6:20(13)  (M. Swislocki)

1973M Outside the Mainstream
When ratifying the UN Covenant of Civil Rights in 1979, its representative reported, "The right of any person to enjoy his own culture... is ensured under Japanese law. However, minorities... do not exist in Japan." Nothing could have been further from the truth. Japan is - and for a long time, has been - home to immigrants, indigenous populations forced to accept Japanese citizenship, outcast communities of Japanese ethnicity, and otherwise ordinary persons who live outside the mainstream as outlaws and prostitutes. This course examines how these minority communities came into existence and struggled to maintain distinctive lifestyles in what many view as an extraordinarily homogeneous society. Enrollment limited to 20 students. Instructor permission required. M

Spr  HIST1973M  S01  25298  M 3:00-5:20(13)  (J. McClain)

Modernity as a distinct kind of cultural experience was first articulated in the Paris of the 1850s. The seminar will explore the meaning of this concept by looking at the theories of Walter Benjamin, as well as historical examples of popular urban culture such as the mass circulation newspaper, the department store, the museum, the café concert and the early cinema. Enrollment limited to 20. M

Fall  HIST1973P  S01  14212  Th 4:00-6:20(13)  (M. Gluck)

1973T The English Revolution
Looks at the origins and nature of the English Civil War and Republican experiment in government (1642-1660) through a close examination of primary source materials. Considers not only the constitutional conflict between the crown and parliament, but also the part played by those out-of-doors in the revolutionary upheaval, the rise of popular radicalism, and the impact of events in Scotland and Ireland. P

Fall  HIST1973T  S01  15489  M 3:00-5:20(13)  (T. Harris)

1973Y Children and Childhood in America, 1640-Present
This course explores the history of children in America from 1640 to the present. It is organized chronologically, but is also topical in approach. Fundamental questions posed by historians in this burgeoning field will be examined: How has the regard for children changed over time? What is the role of children in the popular imagination? How has children's work evolved? How does gender affect children's development? We will consider answers to these questions through the historiography and primary sources that inform our knowledge of the past as children experienced it. Senior history concentrators will receive priority in enrollment. M

Spr  HIST1973Y  S01  24702  M 3:00-5:20(13)  (S. Lassonde)

1974L Gender, Sex and Family
Explores tumultuous conflicts over men's and women's identities, power, and status in American life between World War II and the 2000s. As such, this is a course about gender: the systems of laws, social norms, expectations, privileges, and power relationships that shape how men and women relate to one another, to the economy, to politics and the law. Topics considered: men, women, and consumption; men and women in the workforce and the gendering of labor; gender and civil rights; feminism, gay and lesbian rights; reproductive issues and questions of privacy; and family structure. Enrollment limited to 20 students. M

Fall  HIST1974L  S01  14219  Th 4:00-6:20(13)  (J. Lancaster)

1974U Gender and Sexuality in Brazil
Explores tumultuous conflicts over men's and women's identities, power, and status in American life between World War II and the 2000s. As such, this is a course about gender: the systems of laws, social norms, expectations, privileges, and power relationships that shape how men and women relate to one another, to the economy, to politics and the law. Topics considered: men, women, and consumption; men and women in the workforce and the gendering of labor; gender and civil rights; feminism, gay and lesbian rights; reproductive issues and questions of privacy; and family structure. Enrollment limited to 20 students. M

Fall  HIST1974U  S01  15499  M 3:00-5:20(13)  (R. Self)

1975C Eating Cultures: Food and Society
Explores analyses of eating practices and food production that inform a broader discussion of race and social justice. The purpose is to move from classical studies of "foodways" or how food embodies the society in which it is found towards a deeper analysis of race and the racialization of eating. M

Spr  HIST1975C  S01  25255  M 3:00-5:20(13)  (M. Garcia)

1975U Gender, Empire, and the Nation in the Middle East
Examines the histories of colonialism and nationalism in the modern Middle East through a gendered lens. The ruptures of colonialism recast gender relations, while the alchemy of race, gender, and ethnicity figured prominently in the formation of anti-colonial nationalisms. Colonialism and nationalism, then, were processes that informed and were shaped by highly gendered notions of civilization and citizenship. Since 9/11, gender and Islam have become central tropes in the U.S.’s securitization narrative. We will examine a variety of theoretical and secondary readings and primary source materials, the course will investigate English prejudices against and stereotypes of religious minorities within England (Catholics and Puritans), the non-English peoples of The British Isles (Scots, Welsh and Irish), continental Europeans (particularly the Spanish, the French and the Dutch), and the non-Christian other (Jews, Turks, and Blacks) during a period of revolutionary upheaval. Enrollment limited to 20. P

Spr  HIST1975U  S01  14208  W 3:00-5:20(14)  (M. Mandel)
of genres (film, art, fiction, political speeches, memoirs) and a range of scholarly writings to examine the relationship of knowledge production and power. Enrollment limited to 20 students. Not open to first year students. M

Fall HIST1975U S01 15500 T 4:00-6:20(13) (S. Balaghi)

1975Y Clean and Modern
Examines the ways in which ideas of cleanliness fit into broader conceptualizations of European "modernity" and the effort to modernize others in the 19th and 20th centuries. After studying some theoretical approaches to understanding the body and purity, we will turn to the relationship between hygiene and power, gender, class, race, and empire in specific times and places. Enrollment limited to 20 students. M

Fall HIST1975Y S01 15501 Th 4:00-6:20(13) (E. Pollock)

1976A Comparative Native American History: Indigenous Peoples of North and South America
From Alaska to Argentina, Native people have diverse histories. Spain, Portugal, England and France established different colonial societies; indigenous Latin Americans today have a different historical legacy than Native Americans in the United States. But the experiences of conquest, resistance and adaptation also tell a single overarching story. In colonial times, Native Americans and Europeans struggled over and shared the land. After Independence, however, the new American republics tried to destroy American Indians through war and assimilation. But in the last century Native peoples (both North and South) reasserted their identities within modern states: the "vanishing Indian" refused to vanish. Enrollment limited to 20 students. First-year students require instructor approval.

Fall HIST1976A S01 15502 T 4:00-6:20(13)

1976D Stories to Rule By: The Politics of Exceptionalist Narratives
This seminar will explore the exceptionalist narratives that settled colonial states and other imperialist powers have relied upon to understand and justify their rule. While it will focus on American exceptionalism and its European origins, it will also examine exceptionalism as an ideology of other modern (i.e., post-Enlightenment) colonial settlers, including the Japanese, the Israelis, and others. Enrollment limited to 20 students. M

Spr HIST1976D S01 25300 W 3:00-5:20(14) (N. Shibusawa)

1976E Women and Gender Relations in China, Past and Present
The government of the People's Republic of China has, since early in its history, stated as one of its goals the "liberation" of women from the institutions, customs, and attitudes that had long limited their access to power and personal fulfillment within Chinese society. We will consider, first, the assumptions about China's past made in this claim, by examining the roles that women played in the early modern Chinese society and economy. Second, we will turn to the changes of the twentieth and twenty-first centuries to discover how modern political, social, and economic transformations have reshaped women's lives and opportunities. Enrollment limited to 20. P

Spr HIST1976E S01 25687 W 3:00-5:20(14) (C. Brokaw)

1990 Undergraduate Reading Courses
Guided reading on selected topics. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course.

Fall; Spr

1992 History Honors Workshop for Prospective Thesis Writers
HIST 1992 and HIST 1993 students meet together as the History Honors Workshop, offered in two separate sections per week. Prospective honors students are encouraged to enroll in HIST 1992 during semesters 5 or 6. HIST 1992 offers a consideration of historical methodology and the techniques of writing and research with the goal of preparing to write a senior thesis in history. This course allows students to refine research skills, define a project, and prepare a thesis prospectus, which is required for admission to honors. Students who complete honors may count HIST 1992 as a concentration requirement. Limited to juniors who qualify for the honors program. See History Honors in the section on Undergraduate Concentration Programs.

Fall HIST1992 S01 13714 'To Be Arranged' (N. Jacobs)
Spr HIST1992 S01 21381 'To Be Arranged' (R. Cope)

1993 History Honors Workshop for Thesis Writers
HIST 1992 and HIST 1993 students meet together as the History Honors Workshop, offered in two separate sections per week. All students admitted to the History Honors Program must enroll in HIST 1993 for two semesters of thesis research and writing. They may enroll in the course during semesters 6 and 7, or 7 and 8. Course work entails researching, organizing, and writing a history honors thesis. Presentation of work and critique of peers' work are required. Limited to seniors and juniors who have been admitted to the History Honors Program. For more information, see the History Concentration Honors Requirements.

Fall; Spr

(Primarily for Graduates)

2890 Preliminary Examination Preparation
For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing for a preliminary examination.

Fall HIST2890 S01 11939 'To Be Arranged'
Spr HIST2890 S01 21382 'To Be Arranged'

2910 Reading and Research
Section numbers vary by instructor. Please see check Banner for the correct section number and CRN to use when registering for this course.

Fall; Spr

2930 Colloquium
Themes and topics in history and historiography. Required of all first-year graduate students. E

Fall HIST2930 S01 15490 'To Be Arranged' (C. Brokaw)

2950 Professionalization Seminar
Required of all second year Ph.D. students. E

Spr HIST2950 S01 25289 'To Be Arranged' (K. Smith)

2960 Prospectus Development Seminar
This required course open only to second-year students in the History Ph.D. program focuses on the development of a dissertation prospectus. The seminar will include considering the process of choosing a dissertation topic, selecting a dissertation committee, identifying viable dissertation projects, articulating a project in the form of a prospectus, and developing research grant proposals based on the prospectus. E

Spr HIST2960 S01 21384 'To Be Arranged'

2970 Graduate Reading Seminars on Interpretations of History

2970A Core Readings in Medieval Europe
Uses a combination of readings in primary and secondary sources to examine major topics in medieval history (emphasis on cultural and social history.) Reading knowledge of Latin required.
2970C Rethinking the Civil Rights Movement
This graduate course encourages a rethinking of the complex components, arguments and activities that have characterized what we have come to know as the Civil Rights Movement, concentrating primarily on African American agency, actions and politics, through careful reading of recent scholarship in the field. While knowledge of U.S. history is preferred, this course asks larger thematic questions about protest movements (the role of the state, relationships with and between oppressed groups and organizations, and periodization), that will interest non-Americanists also. Some of the topics covered include: gender, organizing and strategies, the local, global ramifications and interactions, organizational structures and politics, and the recent concept of the Long Civil Rights Movement.

Fall HIST2970C S01 15492 ‘To Be Arranged’ (F. Hamlin)

2970I Methods in Ancient History
Open to graduate students only.

Spr HIST2970I S01 25301 ‘To Be Arranged’ (K. Sacks)

2970Q Core Readings in 20th Century United States History
Major topics and themes in 20th-century U.S. history.

Spr HIST2970Q S01 25290 ‘To Be Arranged’ (R. Self)

2970Z Core Readings in Nineteenth Century Europe
Provides an introduction to the central issues of nineteenth-century European history. It has two purposes: first, to help you refine your abilities to think historiographically; second, to assist you in preparing for your comprehensive exams. To that end, we will read both standard interpretations and newer scholarship.

Fall HIST2970Z S01 15493 ‘To Be Arranged’ (D. Cohen)

2971J Slavery, Race, Emancipation in 19th Century America: Local, National, and Global Perspectives
Will examine slavery and emancipation in the late eighteenth and nineteenth centuries. Although the focus of the course is on racialized slavery and emancipation in the Americas during this period, much of the course will examine slavery and freedom on a broader context. Readings will include works that compare the development and destruction of slavery across time and place as well as the latest scholarship on these processes in specific regions of the Atlantic World, especially in the American South. Open to graduate students only.

Spr HIST2971J S01 25291 ‘To Be Arranged’ (M. Vorenberg)

2971L Borderlands: Violence and Coexistence
Readings of theoretical and empirical studies in interstate and inter-ethnic relations in borderland regions throughout the world, with an emphasis on the modern period in East-Central. Open to graduate students only.

Fall HIST2971L S01 15503 ‘To Be Arranged’ (O. Bartov)

2971M History of Medicine
The history of medicine is a topic that can shed light on any period and place, since all aspects of human life are intertwined parts of the story: ideas, religion, culture, material life, economy, politics, social organization and legal institutions, etc. This reading course is meant to introduce graduate students to the main subjects debated in the field, so that by the end of the semester you will be able to read in the literature and to take up any related archival trail with confidence. Open to graduate students only.

Spr HIST2971M S01 25302 ‘To Be Arranged’

2971N Critical Perspectives on Public and Private

No description available. Open to graduate students only.

Spr HIST2971N S01 25303 ‘To Be Arranged’ (E. Pollock)

2980 Graduate Research Seminars on Interpretations of History
No description available. Open to graduate students only.

Spr HIST2980U S01 25304 ‘To Be Arranged’ (V. Zamindar)

2980V Early Modern Empires
This seminar will explore various approaches to understanding the rise, expansion, and contraction of empires in the early modern period (ca. 1500-1800). Students will be required to write a major research essay based on primary sources.

Fall HIST2980V S01 15870 ‘To Be Arranged’ (R. Cope)

2990 Thesis Preparation
For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing a thesis.

Fall HIST2990 S01 11942 ‘To Be Arranged’

Spr HIST2990 S01 21385 ‘To Be Arranged’

History of Art and Architecture
(Primarily for Undergraduates)

0010 Introduction to the History of Art and Architecture
Introduction to the history of western art and material culture from the beginning to the present. In addition to examining visual strategies of representation, the course explores the varied ways in which art reflects and shapes social, religious, and political concerns. Weekly one-hour conference required.

Fall HIAA0010 S01 15555 MWF 12:00-12:50(12) (R. Molholt)

0040 Introduction to Chinese Art and Culture
This course presents a broad view of the material, aesthetic, and cultural processes through which characteristically Chinese art forms developed from their emergence in ancient China to modern times. Emphasis on visual thinking and on connections between Chinese art (why it looks the way it does) and the particular world in which it was made. Readings in Chinese literature, thought, and history are a basic part of this course. Sections and field trip will emphasize hands-on examination of paintings, calligraphy, and pottery, jade, and bronze objects. Paper assignments aim to increase abilities to write about art and to evaluate visual evidence. Weekly one-hour conference required.

Fall HIAA0040 S01 15556 MWF 10:00-10:50(03) (R. Bickford)

0050 First Year Seminar
This seminar is designed to introduce first-year students to the basic study of specific topics in the History of Art and Architecture in a workshop setting. Readings and discussion are emphasized, as is an active introduction to the tools and methods of the discipline in regard to the topics researched in each class. Guided research and writing. Enrollment limited to 20 first year students.

0050B Reframing Francis Bacon (1909 - 1992)
Is Bacon's painting more than the "cultural barometer" of a declining western civilization? In order to answer this question, the seminar will confront Bacon's art to that of the contemporary generation of American artists and its European counterpart. His early and late works will be taken into consideration, as well as the body of works on paper, paintings and working documents discovered after his death in...
1992. The relationship of the artist to the grand western tradition will be questioned in relation to the wide range of visual stimuli which compounded in the making of his painting. A visual analysis of his works will be supported by the readings of Michel Leiris, Gilles Deleuze, George Bataille, notably, as well as the artist's statements. Enrollment limited to 20.

Fall HIAA0050B S01 15897 Th 4:00-6:20(13) (H. Vanel)

0050C Illustrating Knowledge
This seminar will investigate the history of illustration from the first manuscript maps and printed herals to the present, including paintings, photographs, and computer imaging. We will investigate the role of pictures in the exchange of scientific ideas, and modes of representation developed in both the arts and the sciences. Enrollment limited to 20 first year students. FYS LILE WRIT

Fall HIAA0050C S01 15557 M 3:00-5:20(13) (E. Lincoln)

0080 Introduction to the History of Photography
This class will survey the history of photography as an art form and means of visual communication, from its discovery in the early nineteenth century to its most recent digital manifestations. The photograph will be considered from both aesthetic and social perspectives; photography's rise as a new medium of personal expression will be examined, as will technology's role in the creation of new regimes of scientific thinking, spectatorship, and the mass dissemination of visual information. The major figures in the Western photographic tradition shall be treated in detail, as will thematic issues, such as the application of photography to science or the documentation of war. The class follows the rise of photography's acceptance as an art form in the twentieth century, and culminates with its prominence within the art world phenomenon of postmodernism. No prerequisites, but prior coursework in modern history or art history is helpful.

Fall HIAA0080 S01 13323 MWF 9:00-9:50(02) (D. Nickel)

0130A The City: An Introduction to Urban Studies (URBN 0210)
Interested students must register for URBN 0210 S01 (CRN 10883).

0130B Art in Antiquity: An Introduction (ARCH 0030)
Interested students must register for ARCH 0030 S01 (CRN 25625).

0130C Archaeologies of the Greek Past (ARCH 0420)
Interested students must register for ARCH 0420 S01 (CRN 15790).

0130D Introduction to Islamic Archaeology (ARCH 0600)
Interested students must register for ARCH 0600 S01 (CRN 15791).

0200 Chinese Scholar Ink Painting
During the Song and Yuan dynasties (11th-14th century), Chinese scholars created a new kind of art that combined poetry, calligraphy, and painting. Through their elite influence, their art came to define high culture. During times of upheaval, gaps between aspiration and practice widened, as scholars turned their amateur art into the means of their livelihood. Ink painting became commoditized, responding to new patrons through subject matter and styles. This laid the foundations of modern Chinese painting. We will examine the development and uses of scholar painting as part of China's cultural history from the Song Dynasty to the twentieth century.

Spr HIAA0020 S01 25362 TTh 10:30-11:50(09) (R. Bickford)

0340 Roman Art and Architecture: From Julius Caesar to Hadrian
An introduction to the major monuments in Roman art at the point when the Empire emerged up to the time of the creation of the Pantheon. No prior background required.

Spr HIAA0340 S01 25363 MWF 11:00-11:50(04) (R. Molholt)

0440 Gothic Art and Architecture
Examines Gothic art and architecture to explore its sources and "invention" in mid-12th-century France and to trace its varied manifestations in European art to the 16th century. Special attention is given to cathedral architecture and decoration. Weekly one-hour conference required.

Spr HIAA0440 S01 25804 MWF 1:00-1:50(06) (S. Bonde)

0580 Word, Image and Power in Renaissance Italy (ITAL 0580)
Interested students must register for ITAL 0580 S01 (CRN 15389).

0620 The Age of Rubens and Rembrandt: Visual Culture of the Netherlands in the Seventeenth Century
Surveys the amazing art in Holland and Flanders that revolutionized all media. We will see how paintings, sculpture, and architecture formed the historical environment of life in the 17th-century Netherlands. The work of such artists as Rubens, Rembrandt, Van Dyck, and Vermeer is presented as part of this history of art in a "golden age." Weekly one-hour conference required.

Spr HIAA0620 S01 25365 TTh 1:00-2:20(10) (J. Muller)

0750 Imagining Nation and Empire in Early Nineteenth-Century Europe
Course will examine visual culture in the context of socio-political transformations during the period. We'll analyze oil paintings, watercolors, prints, and phenomena such as the panorama and the Great Exhibition. While we will look briefly at artistic production in Spain and Germany, the geographical focus will be on the two major Western colonial powers, Great Britain and France.

Spr HIAA0750 S01 25366 MWF 2:00-2:50(07) (K. Kriz)

0850 Modern Architecture
The "classic" period of European and American modern architecture from the turn of the century to the 1950s. Presents both the established canon of masterpieces by Frank Lloyd Wright, Mies van der Rohe, and LeCorbusier, and counterbalances this approach with information about new building materials, changing conditions of architectural production, and the "mechanisms of fame."

Fall HIAA0850 S01 15558 MWF 2:00-2:50(07) (D. Neumann)

0860 Contemporary Architecture
Stylistic, technological, and theoretical developments in architecture from the 1960s to the present. Analyzes movements such as " Brutalism," "Postmodernism," and "Deconstruction" and works by architects such as Frank Gehry, I. M. Pei, and Zaha Hadid. Emphasizes the complex conditions of architectural production in different parts of the world. Complements HA 85, but may be taken independently.

Spr HIAA0860 S01 25367 MWF 12:00-12:50(05) (D. Neumann)

0880 Contemporary Art I
This course offers a comprehensive panorama (while inevitably not an all-inclusive one) of the arts from the last sixty years. It covers the major trends and a selection of significant individuals from the post-war period to the most recent developments; following a chronological timeline that leads from abstract-expressionism, minimal art, pop art, performances, happenings, to the various "post" critical attitudes (post-painterly; post-modern).

Fall HIAA0880 S01 11638 MWF 1:00-1:50(06) (H. Vanel)

0890 Contemporary Art II
This class considers the historical persistence of the dream of a realization of art in life from its romantic formulation to its recent incarnations in the contemporary era with an emphasis on the early 20th century avant-gardes, the utopian tendencies of the 20's and 30's, the effects of cybernetic in the 50's and the development of environmental art forms since the 60s.
1040 Topics in East Asian Art
Written permission required. Enrollment limited to 15.

1040A Arts of Imperial Song
Art and power share a long reciprocal relationship in imperial China. In this history, Song (960-1279) emperors stand out because of their massive collections and their personal practice of calligraphy and painting, as well as their great patronage of contemporary art and material culture. The Song emperors literally created the Chinese national heritage by amassing and, if necessary, manufacturing the great works of the past. As Imperial artists and calligraphers, sometimes working with surrogates and collaborators the emperors and their empresses produced art in unprecedented quantities. We explore these achievements and the processes that produced them in this course. Enrollment limited to 15. Instructor permission required.

1440B The Medieval Monastery
Interested students must register for URBN 1560R S01 (CRN 23534).

Corrections:
- 1040K China and the Mongol Empire: Reconfiguring the Yuan Dynasty Paradigm
- 1440B The Medieval Monastery
- 1560 Topics in Italian Visual Culture
- 1600 Topics in Seventeenth-Century Art

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
explain it, and possible new approaches. Prerequisites: HIAA 0010 or HIAA courses in early modern art. Enrollment limited to 20.

Spr HIAA1600B S01 25738 T 4:00-6:20(16) (J. Muller)

1650 Topics in Eighteenth-Century Art
Enrollment limited to 20.

1650D Souvenirs: Remembering the Pleasures and Perils of the Grand Tour
Examines visual image and objects, ranging from portraits, landscape watercolors and graphic satires, to cork models of antiquities, which served to remind and remake travelers' ideas of Italy and other sites on the eighteenth century Grand Tour of the European continent. We will examine the role of anxiety, laughter, pleasure and danger in a rite of passage that was designed to elevate and educate young men, artists, and increasingly, women and men from the middling orders.
Enrollment limited to 20. WRIT
Fall HIAA1650D S01 15560 TTh 10:30-11:50(09) (K. Kriz)

1850 Topics in Twentieth-Century Architecture
Enrollment limited to 20.

1850E Architecture, Light and Urban Screens
This seminar explores the history, theory and practice of architectural illumination and the notion of electric light as a "building material." We will also consider the current interest in urban screens and media facades. The course will follow a historic trajectory from ca. 1900 to the present and will introduce the students to the most important techniques, protagonists and critical debates over the past 100 years. We will critically examine the broader implications of lighting design, the tension between luminous advertising and architectural illumination, the relationship to stage lighting, the implications of a "nocturnal modernity" and the use of light for propaganda purposes.
Enrollment limited to 20. A
Fall HIAA1850E S01 15958 M 3:00-5:20(13) (D. Neumann)

1850F The Architecture and Urbanism of Modern Istanbul
This seminar will survey the architecture and urbanism of modern Istanbul paying particular attention to the historiographic frameworks that have shaped the study of the city. The course will first analyze the perspectives offered by contemporary works of architectural urban history on the late Ottoman period. It will then look at recent architectural histories of the Republican era of nation building, and sociological studies on the post-war era of rapid urbanization, and post-1980s globalization. Enrollment limited to 20. WRIT
Fall HIAA1850F S01 15898 T 4:00-6:20(13) (A. Tureli)

1890 Topics in Contemporary Art
Enrollment limited to 20.

1890A Art of Participation: Promises of Performance, Happening and Installation of Arts from the 50s to 70s
Contemporary artists (and, eventually, institutions) frequently require the active participation of the public. In order to avoid a passive acceptance of this pervasive trend, this undergraduate seminar intends to question the historical and theoretical foundations of the participation notion through the development of the arts of performance, happening and installation. First situating historically this tendency in the first avant-garde, the seminar intends to interrogate the promise of an individual or collective liberation underlying the "arts of participation". Enrollment limited to 20.
Spr HIAA1890A S01 25739 W 3:00-5:20(14) (H. Vanel)

1920 Individual Study Project in the History of Art and Architecture
Reading and reports on an approved topic, supervised by a member of the staff. Project proposals must be submitted and approved no later than the first week of the semester. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor’s permission required.
Fall, Spr

1990 Honors Thesis
The subject of the thesis and program of study will be determined by the needs of the individual student. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor’s permission required.
Fall, Spr

2920 Methods of Research and Art Historical Interpretation
Required of first-year and second year history of art and architecture A.M./Ph.D. students. Instructor permission required.
Fall HIAA2920 S01 15563 M 3:00-5:20(13) (D. Nickel)

2940 Master’s Qualifying Paper Preparation
Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor’s permission required.
Fall, Spr

2970 Preliminary Examination Preparation
For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing for their doctoral examination.
Fall HIAA2970 S01 11639 "To Be Arranged"
Spr HIAA2970 S01 21254 "To Be Arranged"
(Primarily for Graduates)

2980 Individual Reading (Single Credit)
Single credit. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor’s permission required.
Fall, Spr

2981 Individual Reading (Double Credit)
Double credit. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor’s permission required. Fall, Spr

2982 Individual Reading for the Doctoral Candidate
Single Credit. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor’s permission required.
Fall, Spr

2983 Dissertation Research
Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor’s permission required.
Fall, Spr

2990 Thesis Preparation
For graduate students who are preparing a thesis and who have met the tuition requirement and are paying the Registration Fee to continue active enrollment.
Fall HIAA2990 S01 11640 "To Be Arranged"
Spr HIAA2990 S01 21255 "To Be Arranged"

2991 Dissertation Preparation
For graduate students who are preparing a dissertation and who have met the tuition requirement and are paying the registration fee to continue active enrollment.
Spr  INTL1800D  S01  20404  W 3:00-5:20(14)  (W. Xu)
Permission required. Enrollment limited to 20.
Chinese. Advanced Chinese language skills necessary. Instructor's including the Chinese Democracy Wall movement and the Chinese to the present. Examines key leaders, events and development,
Surveys the Chinese democracy movement in the 20th century and up
History
1800D Survey of Chinese Democracy and Chinese Contemporary
Limited to 20.
Capstone requirement. Instructor's permission required. Enrollment
Thayer Street. Only seminars taken as a junior or senior meet the
times for the current senior seminars may be obtained from the
related to the four tracks. A complete list of topics, instructors, and
relations around a specific topic of contemporary interest.
This introduction to public international law covers the nature of legal
reasoning in international relations, the interplay of international law
and international political, and the international legal process. Examines
selected substantive fields such as state responsibility, the use of
force, international human rights, and the U.S. and international law.
Prerequisite: POLS 0400.
Spr  INTL1700  S01  25770  TTh 1:00-2:20(10)  (N. Berman)
1800 Senior Seminars
These seminars constitute the capstone of the IR concentration. They
integrate interdisciplinary approaches to the study of international
relations around a specific topic of contemporary interest.
Approximately eight to ten seminars per semester are offered on topics
related to the four tracks. A complete list of topics, instructors, and
times for the current senior seminars may be obtained from the
Program website or the International Relations Program office at 111
Thayer Street. Only seminars taken as a junior or senior meet the
capstone requirement. Instructor's permission required. Enrollment
Limited to 20.
Spr  INTL1800D  S01  20404  W 3:00-5:20(14)  (W. Xu)
1800N Global Media: History, Theory, Production
Explores the historical and contemporary roles of media in international
affairs as a source of information and as an important medium of war
and diplomacy. Three tracks: historical, focusing on the dual
development of colonial and media empires from early days of print
media to the Internet; theoretical, using classical IR and critical theory
to examine media as product and instrument of cultural, economic and
political struggles; and practical, using biweekly 'Global Media Labs' in
which guest media practitioners teamed with media theorists present
master classes in print, photography, radio, cinema, television, and
online convergences. Instructor permission required. Enrollment limited
to 20. WRIT
Spr  INTL1800N  S01  20444  W 3:00-5:20(14)  (J. Der Derian)
1800R Post-Soviet States From the Past into the Future
Examines in historical context the emergence of the new post-Soviet
states from the disintegrating USSR, the development of their foreign
policies, and the evolution of their mutual relations in the political,
economic, security, and environmental spheres. Devotes special
attention to the functioning of the Community of Independent States
and other multilateral institutions. Instructor's permission required.
Enrollment limited to 20.
Fall INTL1800R  S01  10549  F 3:00-5:20(15)  (S. Khrushchev)
1800V The United States in World Politics
Examines major aspects of American foreign policy after the Cold War
and 9/11 in terms of domestic and international challenges.
Discussions of the United States as 'empire' and 'republic,' with
independent research and a foreign policy game. Emphasis is on the
connections between the processes of policy making and the
substance of policies pursued. Prerequisite: POLS 0400 required;
POLS 1560 highly recommended. Enrollment limited to 20 juniors and
senior concentrators. WRIT
Spr  INTL1800V  S01  23896  T 4:00-6:20(16)  (L. Miller)
1910 Senior Honors Seminar
Open only to Senior students accepted into the honors program in
international relations. Instructor permission required. WRIT
Fall INTL1910  S01  10563  W 6:30-8:50 PM(18)  (C. Elliott)
1920 Senior Honors Thesis
Open only to Senior students accepted into the honors program in
international relations. Instructor permission required. WRIT
Spr
1970 Individual Research Project
Limited to juniors and seniors. Section numbers vary by instructor.
Please check Banner for the correct section number and CRN to use
when registering for this course. Required: all proposals for
independent study must be approved by the faculty sponsor and the
INTL program director or assistant director. Students should not
register for any section of INTL 1970 without this approval. Instructor's
permission required.
Fall; Spr
Fall XLIST Courses of Interest to Students Concentrating in
International Relations
The following related courses, offered in other departments, may be of
interest to students concentrating in International Relations. Please
see the course listing of the sponsoring department for times and
locations.
Anthology
ANTH 1151 Ethnographies of the Muslim Middle East
ANTH 1224 Human Trafficking, Transnationalism, and the Law
ANTH 1233 Ethnographies of Global Connection
Economics
ECON 0110 Principles of Economics
ECON 1210 Intermediate Macroeconomics
ECON 1500 Current Global Macroeconomic Challenges
ECON 1620 Introduction to Econometrics
Environmental Studies
ENVS 0510 Problems in International Environmental Policy
History
HIST 1580 Making of Modern South Asia
Political Science
POLS 0400 Introduction to International Politics
POLS 0500 Foundations of Political Analysis
POLS 1240 Politics, Markets and States in Developing Countries
POLS 1415 Classics of Political Economy

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
POLS 1480 Theory of International Relations
POLS 1560 American Foreign Policy
POLS 1820N International Relations in Europe
POLS 1821O Politics of Economic Development in Asia
Sociology
SOC 0150 Economic Development and Social Change
SOC 1100 Introductory Statistics for Social Research
SOC 1620 Globalization and Social Conflict

Spring XLIST Courses of Interest to Students Concentrating in International Relations
The following related courses, offered in other departments, may be of interest to students concentrating in International Relations. Please see the course listing of the sponsoring department for times and locations.

Anthropology
ANTH 1232 War and Society
ANTH 1251 Violence and the Media

Economics
ECON 0110 Principles of Economics
ECON 1210 Intermediate Macroeconomics
ECON 1620 Intro to Econometrics

History
HIST 1420 Twentieth Century Russia
HIST 1520B Twentieth Century China
HIST 1630 Modern Latin America I

Political Science
POLS 1210 Latin American Politics
POLS 1270 Politics and Economics in the Middle East
POLS 1280 Politics, Economy and Society in India
POLS 1400 Europe and America
POLS 1420 Money and Power in the International Political Economy
POLS 1600 Political Research Methods
POLS 1821M War in Film and Literature
POLS 1821R State Sovereignty and International Law
POLS 1821X The Politics of Social Welfare in the Middle East

Sociology
SOC 1100 Introduction Stats for Social Research

Italian Studies

(Primarily for Undergraduates)

0100 Elementary Italian
Elective for students without previous training in Italian. No credit for first semester alone. Fundamentals of Italian grammar and development of skills in speaking, comprehension, and writing. Overview of contemporary Italian society. Five meetings per week, audio and video work, two Italian films. Note: This is a year course. Enrollment Limited to 18.

Fall ITAL0100 S01 10659 MWF 11:00-11:50 & TTh 10:30-11:50(18) (C. Abbona-Sneider)
Fall ITAL0100 S02 10660 MWF 10:00-10:50 & TTh 9:00-10:20(18) (C. Abbona-Sneider)
Fall ITAL0100 S03 10661 MWF 10:00-10:50 & TTh 2:30-3:50(18) (C. Abbona-Sneider)
Fall ITAL0100 S04 10662 MWF 1:00-1:50 & TTh 11:00-12:20(18) (C. Abbona-Sneider)
Fall ITAL0100 S05 10663 MWF 1:00-1:50 & TTh 10:30-11:50(18) (C. Abbona-Sneider)

0200 Elementary Italian
See Elementary Italian (ITAL 0100) for course description. Enrollment Limited to 18. Prereq: ITAL 0100;

Spr ITAL0200 S01 20513 MWF 11:00-11:50 & TTh 10:30-11:50(18) (C. Abbona-Sneider)
Spr ITAL0200 S02 20514 MWF 10:00-10:50 & TTh 9:00-10:20(18) (C. Abbona-Sneider)

0300 Intermediate Italian I
Review of the fundamentals of grammar, with emphasis on speaking and writing. Reading of representative short stories. Weekly compositions, presentations, and a paper. Three Italian films. Prerequisite: ITAL 0100-0200, or placement by examination. Requirement for enrollment in the Bologna Program.

Enrollment Limited to 18. Prereq: ITAL 0200;

Fall ITAL0300 S01 10664 MW 11:00-11:50 & TTh 12:00-12:50(18) (C. Abbona-Sneider)
Fall ITAL0300 S02 10665 MW 12:00-12:50 & TTh 12:00-12:50(18) (C. Abbona-Sneider)
Fall ITAL0300 S03 10666 MW 2:00-2:50 & TTh 12:00-12:50(18) (C. Abbona-Sneider)

0400 Intermediate Italian II
Review of specific grammar problems. Reading of one novel and newspaper articles. Compositions and oral presentations. Three Italian films. Prerequisite: ITAL 0300, or placement by examination. Enrollment Limited to 18. Prereq: ITAL 0300;

Spr ITAL0400 S01 20518 MW 11:00-11:50 & TTh 12:00-12:50(18) (C. Abbona-Sneider)
Spr ITAL0400 S02 20519 MW 12:00-12:50 & TTh 12:00-12:50(18) (C. Abbona-Sneider)
Spr ITAL0400 S03 23295 MW 3:00-3:50 & TTh 12:00-12:50(18) (C. Abbona-Sneider)

0500 Advanced Italian I
The purpose of this advanced course is to improve speaking and writing skills by offering extensive practice in a variety of styles and forms. Students will discuss various aspects of contemporary Italian culture. Reading, analysis, and class discussion of texts (articles, songs, pictures, short stories, movies and television), oral presentations, based on research, and a writing portfolio (compositions, essays, blog and a journal). Prerequisites: ITAL 0400, or placement by examination.

Fall ITAL0500 S01 10667 F 12:00-12:50 & MW 11:00-12:20(12) (C. Abbona-Sneider)

0550 Word, Image and Power in Renaissance Italy
This class is designed to introduce cultural and historical perspectives on Italy from Siena in the Middle Ages to Venice in the High Renaissance. Taught by professors of Italian Literature, Art History and History, we will move across Italy and the centuries focusing on monuments of literature, art, architecture, and history through different disciplinary lenses. WRIT

Fall ITAL0580 S01 15389 MWF 11:00-11:50(04) (C. Castiglione)

0590 Word, Image, Power in Modern Italy
Pending approval. This team-taught, multi-disciplinary course looks at the intersection of political and social discourse, the arts and modern media, from the 19th-century wars of independence to the present. Key topics include: Democracy and Fascism, Catholicism and Religious freedom, the Fall of Communism and the Rise of Berlusconi, Migration and cultural diaspora, Mafia and Terrorism. Such topics will be analyzed from a variety of perspectives - visual, literary, historical, anthropological, cinematic, musical, aesthetic. One lecture and one discussion section per week. Guest lectures, screenings. Taught in English.

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
142 / Italian Studies

**0600 Advanced Italian II**
A sixth semester course with intensive practice in speaking and writing. Short stories, poems, music, and movies will be used to discuss Italian Society from the Second World War through the present. We will explore some important themes--family, religion, gender, and politics. Class discussion, compositions, oral presentations, and a final paper. Prerequisite: ITAL 0500, placement by examination.

Spr ITAL0600 S01 20520 TTH 2:30-3:50(11) (C. Abbona-Sneider)

**0751 When Leaders Lie: Machiavelli in International Context**
This course examines the writing of Niccolò Machiavelli, a Renaissance author praised and condemned for his insistence on analyzing the realities of politics, rather than the ideals of political behavior. Machiavelli's view of the tenuous relationship of ethics to politics has cast him as the founder of political science and the proponent of consequential morality, that the ends justify the means. We will also examine precedents for his ideas in the Greek and Islamic worlds and conclude by examining the relevance of Machiavelli's insights for understanding political practices and ethics in the twenty-first century. Enrollment limited to 20 first year students. FYS LILE WRIT

Fall ITAL0751 S01 13592 Th 4:00-6:20(13) (C. Castiglione)

(For Undergraduates and Graduates)

**1000 Studies in Contemporary Italian Culture**
An introduction to contemporary Italian culture, history and society. Topics vary from year to year and instructor to instructor. Taught in English or Italian.

**1000E Masterpieces of Italian Cinema - Capolavori del cinema italiano**
The course will consist of a broad and varied sampling of classic Italian films. We will consider the works which typify major directors such as Rossellini, De Sica, Visconti, Fellini, Pasolini, Antonioni, Germi, Risi, Scola, Olmi, and Rosi. The aims of the course is offering a historical survey, and discuss the way how Italian cinema has reflected, amplified, and criticized important moments of Italian history, books and national identity. Classes will include close visual analysis of films, and its relations with the sisters arts (literature, painting, music). The course will be taught in Italian. Prerequisite: ITAL 0600.

Fall ITAL1000E S01 15386 TTH 1:00-2:20(10) (R. Filanti)

**1010 Dante in English Translation: Dante’s World and the Invention of Modernity**
Primarily for students with no knowledge of Italian. Given in English. Concentrators in Italian should enroll in ITAL 1610; they are expected to read the material in the original. Close study and discussion of Dante’s deployment of systems of retribution in the Inferno and rehabilitation in the Purgatorio with a view to imagining a society based on love and resistant to the effects of nascent capitalism and the money economy. Dante's work summarizes and transforms the entire ancient and medieval tradition of literature, philosophy, and science. WRIT

Fall ITAL1010 S01 10668 TTh 2:30-3:50(11) (R. Martinez)

**1020 Boccaccio’s Decameron and the End of the World**
Close study and discussion of Boccaccio’s collection of 100 tales told by ten narrators over a period of two weeks, while in flight from the devastating plague of 1348. The Decameron defined the standard of Italian prose narrative for almost four centuries, and furnished a great number of the plots of Italian (and French and English) Renaissance drama. Students will be invited to contribute to the Decameron Web, the Boccaccio award-winning web site administered by the department of Italian Studies. Other, shorter, works of Boccaccio will be read to prepare for tackling the Decameron. Sections in both English and Italian. WRIT

Spr ITAL1020 S01 20521 TTH 2:30-3:50(11) (R. Martinez)

**1340 Garibaldi and the Risorgimento**
The life and career of one of the Founding Fathers of modern Italy, viewed and reviewed through the eyes of his 19th-century contemporaries and 20th-century emulators and critics, against the backdrop of the Italian National Revolution and other International liberation movements, from his early years in Latin America to the battle for Rome and the expedition in Sicily. Biographies and historical studies, paintings and films. Students will have the opportunity to contribute to the Garibaldi and the Risorgimento project focused on a moving panorama (or diorama) made in England in the early 1860s and accessible in digital form at: dl.library.brown.edu/garibaldi. Lectures in Italian.

Spr ITAL1340 S01 25140 W 3:00-5:20(14) (M. Riva)

**1360 Renaissance Italy**
Italian society and culture from the second half of the thirteenth to the middle of the sixteenth century. Special attention devoted to the contexts (demographic, social, economic, political) within which political ideas and theories were developed from the generation before Dante to that following Machiavelli.

Spr ITAL1360 S01 25141 MWF 12:00-12:50(05) (C. Castiglione)

**1550 Italian Representations of the Holocaust**
A survey of some of the most important texts (fiction, history, philosophy, films) that deal with both the Holocaust in Italy, and representations of the Holocaust by Italians. Readings include Levi, Bassani, Loy, Agamben; films those of Benigni, Cavani, Wertmuller. There will also be discussion of the aesthetic and political complexities regarding portrayals of the Holocaust, such as trauma, witnessing, historical truth, kitsch. Taught in English, with the possibility of a section in Italian. WRIT

Fall ITAL1550 S01 15387 M 3:00-5:20(13) (S. Stewart-Steinberg)

**1620 The Divina Commedia: Dante's Paradiso: Justifying a Cosmos**
Close study of the third and final part of Divine Comedy, in which Dante unfolds how, in his view, the planetary and stellar spheres condition human life and fashion the Providential plan of history. There will be ancillary readings from Dante’s other works: Convivio, the Monarchia, and the Epistles. In Italian. Prerequisite: ITAL 0500 or 0600, or instructor permission.

Spr ITAL1620 S01 20522 M 3:00-5:20(13) (R. Martinez)

**1920 Independent Study Project**
Independent study supervised by a member of the Italian Studies Faculty. Students may pursue independent research in order to prepare for their honors thesis or honors multimedia project, or they may enroll in the course in order to work individually with a faculty member on a specific area of Italian Studies not covered in the current course offerings. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course.

Fall, Spr

**1990 Senior Conference**
Special work or preparation of an honors thesis under the direction of a member of the staff. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course.

Fall, Spr

(Primarily for Graduates)

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
2050 Microhistory
Italian historians pioneered a methodology called “microhistory,” emphasizing the importance of interpreting seemingly insignificant details in order to understand individuals for whom we typically have little information. We will examine some classic examples of this genre, alongside debates about the method. Students should pursue their own geographic and disciplinary interests in the final assignment by writing a microhistory.

Spr ITAL2050 S01 25142 Th 4:00-6:20(16) (C. Castiglione)

2100 Introduction to Italian Studies
Introduction to problems, instruments, and techniques of interdisciplinary research, as applicable to Italian studies (anthropology, history, art history, literary and media studies, including computing for the humanities). Taught in Italian for graduate students or concentrators.

Fall ITAL2100 S01 15388 W 3:00-5:20(14) (M. Riva)

2820 Italian Studies Colloquium
The Italian Studies Colloquium is a forum for an exchange of ideas and work of the community of Italian scholars at Brown and invited outside scholars. Graduate students present their work in progress, and engage the work of faculty and visitors. They are expected to come prepared with informed questions on the topic presented. Presentations in both Italian and English. Instructor permission required.

Fall ITAL2820 S01 14729 W 5:30-7:00(18) (M. Riva)
Spr ITAL2820 S01 24587 W 5:30-7:00(18) (M. Riva)

2970 Preliminary Examination Preparation
For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing for a preliminary examination.

Fall ITAL2970 S01 10685 'To Be Arranged'
Spr ITAL2970 S01 20533 'To Be Arranged'

2980 Reading and Research
Courses on special subjects individually planned and supervised. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course.

Fall; Spr

2990 Thesis Preparation
For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing a thesis.

Fall ITAL2990 S01 10686 'To Be Arranged'
Spr ITAL2990 S01 20539 'To Be Arranged'

Japanese see East Asian Studies

Judaic Studies

Hebrew

(Primarily for Undergraduates)

0110 Elementary Hebrew
An introduction to the skills of reading, writing, and conversing in contemporary Israeli Hebrew. Students also read Hebrew texts adapted for their level of Hebrew based on biblical, rabbinic, and modern Hebrew literature, which introduce them to the approaches of Hebrew writers in various periods to a variety of cultural issues. Enrollment limited to 20. If unable to enroll because of closed registration, please contact the Professor and a wait list will be created. This is the first half of a year-long course whose first semester grade is normally a temporary one. Neither semester may be elected independently without special written permission. The final grade at the end of the course work in JUDS 0120 covers the entire year and is recorded as the final grade for both semesters.

Fall JUDS0110 S01 10131 MWF 11:00-11:50 & TTh 10:30-11:50(04) (R. Adler Ben Yehuda)

0120 Elementary Hebrew
This is the second half of a year-long course, an introduction to the skills of reading, writing, and conversing in contemporary Israeli Hebrew. Students also read Hebrew texts adapted for their level of Hebrew based on biblical, rabbinic, and modern Hebrew literature, which introduce them to the approaches of Hebrew writers in various periods to a variety of cultural issues. Prerequisite: JUDS 0110. Students must have taken JUDS 0110 to receive credit for this course. If JUDS 0110 was taken for credit then this course must be taken for credit; if taken as an audit, this course must also be taken as an audit. Exceptions to this policy must be approved by both the academic department and the Committee on Academic Standing. Enrollment limited to 20.

Spr JUDS0120 S01 20127 MWF 11:00-11:50 & TTh 10:30-11:50(04) (R. Adler Ben Yehuda)

0130 Intermediate Hebrew
Develops the skills of reading, writing, and conversing in contemporary Israeli Hebrew at the intermediate level and of reading Hebrew texts of the biblical, rabbinic, and modern periods (biblical stories, rabbinic legends, modern Hebrew poems, stories, essays, newspaper articles). Discussions and compositions focus on the psychological, cultural, political, and social issues reflected in the Hebrew sources that we study. Prerequisite: JUDS 0120 or equivalent. Enrollment limited to 20. If unable to enroll because of closed registration, please contact the professor and a wait list will be created.

Fall JUDS0130 S01 10159 MWF 12:00-12:50 & TTh 12:00-12:50(12) (R. Adler Ben Yehuda)

0140 Intermediate Hebrew
Develops the skills of reading, writing, and conversing in contemporary Israeli Hebrew at the intermediate level and of reading Hebrew texts of the biblical, rabbinic, and modern periods (biblical stories, rabbinic legends, modern Hebrew poems, stories, essays, newspaper articles). Discussions and compositions focus on the psychological, cultural, political, and social issues reflected in the Hebrew sources that we study. Prerequisite: JUDS 0130 or equivalent. Enrollment limited to 20. If unable to enroll because of closed registration please contact the professor and a wait list will be created.

Spr JUDS0140 S01 20154 MWF 12:00-12:50 & TTh 12:00-12:50(05) (R. Adler Ben Yehuda)

0150 Writing and Speaking Hebrew
 Enables students to improve their skills in speaking and writing Hebrew on a variety of topics. Features advanced work on language structure and active language practice in the classroom. Class discussions of Israeli current events draw on Israeli stories, poems, television programs, and films and on the Israeli press. Students also compose essays and stories in Hebrew. Prerequisite: JUDS 0140 or equivalent.

Fall JUDS0150 S01 10160 MWF 1:00-1:50(06) (R. Adler Ben Yehuda)

0300 Israeli Literature in Hebrew
For students interested in reading selections of Hebrew fiction, drama, and poetry. Concentrates on major issues of the State of Israel, for example: the relationship between modernity and tradition, responses...
to the Holocaust, the Arab-Israeli conflict, and other cultural, social, and political issues. Israeli feature films are viewed and discussed. Conducted in Hebrew. Emphasizes strengthening Hebrew reading, writing, and speaking skills. Prerequisite: JUDS0150. Students who have not taken JUDS0150 should see instructor for permission to enroll.

Spr JUDS0300 S01 24015 MWF 10:00-10:50(03) (D. Jacobson)

Judaic Studies

(Primarily for Undergraduates)

0010 Judaism: Text and Context
Surveys the major practices, traditions, and beliefs of the Jews, with an emphasis on modern Jewish communities. How does a Jewish community shape its practices and beliefs against its own specific historical circumstances to create a coherent and meaningful religious system? What is "Judaism," and how do scholars of religion explain and interpret it? WRIT

Spr JUDS0010 S01 24833 TTh 2:30-3:30(11) (M. Satlow)

0050 Freshman Seminars
Enrollment Limited to 20 first year students. FYS

0050A Believers, Agnostics, and Atheists in Contemporary Fiction
Contemporary society is divided over issues of religious faith. In recent decades there has been a resurgence of religious faith, while at the same time many have been skeptical and even hostile to religious belief and practice. Others are just not sure what to believe. In this seminar, we will read and discuss contemporary short stories that explore the ways that these ongoing differences over spiritual matters affect people. These works portray a variety of human situations: the affirmation and rejection of religious faith, confusion over the existence and nature of God, and positive and negative views of religious institutions and the clergy who lead them. Writers of both Christian and Jewish background will be studied. Enrollment limited to 20 first year students. WRIT FYS

Fall JUDS0050A S01 14060 W 3:00-5:20(14) (D. Jacobson)

0390 Holocaust Literature
Readings in works of prose and poetry by victims and survivors of the Holocaust that portray experiences in ghettos, in concentration camps, and in hiding. Additional readings in works of the post-war era by survivors and their offspring. Discussion of the moral, psychological, religious, and cultural dimensions of the Holocaust and its ongoing impact on humanity. WRIT

Fall JUDS0390 S01 15666 TTh 1:00-2:20(10) (D. Jacobson)

0530 Judaism, Christianity, and the Bible
When and how was Judaism created? Traces the formation and evolution of Judaism from the rebuilding of the Temple and redaction of the Torah in the sixth century BCE to the enduring legacy of the Rabbis who flourished in the sixth century CE. Topics include the Dead Sea scrolls, apocalypticism, Philo, sectarianism, midrash, and Talmud. WRIT

Fall JUDS0530 S01 15667 TTh 2:30-3:30(11) (M. Satlow)

0610 American Jewish History
By the mid-20th century, the U.S.’s Jewish population was one of the world’s largest and most important. In 1654, however, when 23 Jews landed in New Amsterdam, their position was far from assured. The history of American Jewish settlement is considered by exploring the interaction between the political, social, and cultural environment and successive waves of Jewish migrants. WRIT

Fall JUDS0610 S01 15669 MW 2:00-2:50(07) (M. Mandel)

0640 History of the Holocaust
Explores questions raised by the Holocaust regarding how such barbarism erupted in our so-called civilized and enlightened age. Attempts to analyze the meaning of the Holocaust from three vantage points: that of European, and more particularly, German history; that of Jewish history; and that of those states and religious institutions which shared responsibility. Enrollment limited to 50. If unable to enroll because of closed registration please contact the Professor and a wait list will be created. WRIT

Spr JUDS0640 S01 25485 TTh 9:00-10:20(08) (M. Mandel)

0980 Seminar in Judaic Studies
Enrollment limited to 20.

0980G Global Culture: Religion, Migration, and Diaspora
Through historical and ethnographic texts, music, images and film, this class provides students with a global perspective on Jewish society. Special attention will be given to the languages and literatures of the Sephardi and Mizrahi diasporas in places such as the Middle East, North Africa, France and the Americas. Issues raised include the representation of Sephardi and Mizrahi Jews in academic and popular media, the politics of ethnicity in Israel and the relationship to Ashkenazi Jewish practices worldwide. Enrollment limited to 20. WRIT

Spr JUDS0980G S01 25490 TTh 1:00-2:20(10) (M. Brink-Danan)

0980U Making Sparks Fly: Mysticism and Politics in the History of Hasidism
Hasidism was a social movement founded on mystical ideas. Using the texts of its greatest masters, we will learn how revolutionary new ideas about God and the world became a powerful movement for social change. We will examine Hasidism's kabbalistic background, and the mystical ideology of the Ba'al Shem Tov and his followers. We will focus on the development of the Zaddik and the Hasidic Court, as well as their conflicts with the rabbinic and community establishments in the eighteenth and nineteenth centuries. The seminar will involve critical reading of primary sources in translation and class discussions of historiography. WRIT

Fall JUDS0980U S01 15683 M 3:00-5:20(13)

0980V Money, Power, Sex and Love: The Modern Jewish Family in Europe and America
What roles did the family play in modern Jewish society and how did Jewish women participate in them? These questions are at the heart of this seminar. Through discussions of primary sources (in translation) and modern research, we will use the tools of gender analysis to examine the history of the Jewish family from the mid-seventeenth century until today. Topics discussed include: Jewish law and the family, women and the politics of the family economy, sex and the erotic, women's spirituality, the bourgeois Jewish family in imperial Germany, Jewish family life before the Holocaust, and intermarriage in the contemporary USA. WRIT

Spr JUDS0980V S01 25496 M 3:00-5:20(13)

0980W The Israeli-Palestinian Conflict: Contested Narratives
Like many political conflicts, the struggle between Israelis and Palestinians for the same land has produced contested historical narratives. We will compare the often radically different narratives that Palestinians and Israelis tell themselves about their struggle over Palestine/Israel. The focus will be on a variety of primary sources, including works of fiction and poetry, films, essays, political documents, and journalistic reports, as well as approaches of historians to the Israeli-Palestinian conflict. Attention will also be paid to efforts by Israelis and Palestinians to transcend their conflicting narratives and

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
arrive at mutual understanding. All sources will be in English translation. WRIT

Spr JUDS0980W S01 25495 MWF 1:00-1:50(06) (D. Jacobson)

(For Undergraduates and Graduates)

1400 The Archaeology of Palestine
Palestine constitutes one of the most important archaeological regions connected to the origins of Judaism, Christianity and Islam. In this class we will examine the material remains of the region beginning in pre-historic times until the end of the Ottoman period in 1917. Literary sources as well as the more recent scholarly debates and discoveries help us understand the material remains of the relevant periods. WRIT

Fall JUDS1400 S01 15684 T 4:00-6:20(13) (K. Galor)

1440 Ancient Synagogues, Churches, and Mosques in Palestine
Reviews the discoveries and related scholarship of ancient synagogues, churches, and mosques in ancient Palestine. Focuses on their architectural and decorative as well as their spiritual and religious characteristics, and examines how those institutions influenced each other throughout their history of development. WRIT

Spr JUDS1440 S01 25519 T 4:00-6:20(16) (K. Galor)

1970 Individual Study Projects
Section numbers vary by instructor. Please see Banner for the correct course reference number (CRN) to use when registering for this course.
Fall; Spr

1980 Advanced Seminar in Judaic Studies
Enrollment limited to 20.

1981D Parting of the Ways: The Separation of Judaism and Christianity
Jesus may have been Jewish, but for many centuries, Jews and Christians alike have considered their religions and their self-identifications to be mutually exclusive. When, why and how did these differences become definitive? Some modern scholars argue that "the ways parted early": others contend that they never parted at all! We focus on the period before Christianity becomes the official religion of the Roman Empire (late 4th century C.E.), with attention to persons in antiquity who contested these distinctions, and even to some in our own time ("Hebrew Christians," "Messianic Jews," and "Jews for Jesus"). Enrollment limited to 20. WRIT

Spr JUDS1981D S01 25524 Th 4:00-6:20(16) (R. Kraemer)

1981E Memoirs and Memory: The Individual Experience of Modern Jewish Life (HIST 1971Z)
Interested students must register for HIST 1971Z S01 (CRN 14208).

1981F The Jewish Problem (HIST 1970L)
Interested students must register for HIST 1970L S01 (CRN 25252).

1981G From Amsterdam to Istanbul: Jews in the Early Modern World (HIST 1550)
Interested students must register for HIST 1550 S01 (CRN 15498).

Interested students must register for HIST 1551 S01 (CRN 25295).

(Primarily for Graduates)

2060B Methods in Ancient History (HIST 2970I)
Interested students must register for HIST 2970I S01 (CRN 25301).

Korean see East Asian Studies

Latin see Classics

Latin American and Caribbean Studies

Haitian Creole

(Primarily for Undergraduates)

0100 Basic Haitian Creole
Fast-paced course for beginners. Course stresses acquisition of skills in speaking and listening comprehension; writing included to a lesser degree. Strong emphasis on cultural as well as linguistic competency. Enrollment limited to 18. If the course is full, please sign the wait list in room 215, 111 Thayer Street.

Fall CROL0100 S01 12477 MW 3:00-5:20(13) (P. Sylvain)
Spr CROL0100 S01 23283 MW 3:00-5:20(13) (P. Sylvain)

0200 Early Intermediate Creole
Fast-paced course for beginners. Course stresses acquisition of skills in speaking and listening comprehension; writing included to a lesser degree. Strong emphasis on cultural as well as linguistic competency. Enrollment limited to 18. Prerequisite: Beyond basic level of reading, writing and comprehension or having successfully completed CROL 0100. If the course is full, please sign the wait list in room 215, 111 Thayer Street.

Fall CROL0200 S01 13528 MW 6:30-8:20 PM(18) (P. Sylvain)
Spr CROL0200 S01 21689 MW 6:30-8:20 PM(18) (P. Sylvain)

0300 Advanced Intermediate Haitian Creole
Fast-paced course for advanced/intermediate students of Haitian Creole. Designed for those who speak and understand Haitian Creole with some fluency but are seeking ways of perfecting their language skills, overcoming grammatical snags, increasing vocabulary, and mastering the idiomatic use of the language and proverbs. Reading and responding to authentic literature in Haitian Creole will be the focus of the course. Prerequisite: CROL 0200. Enrollment is limited to 18. If course is full, please sign the wait list in Rm. 215, 111 Thayer Street. DVPS

Fall CROL0300 S01 13781 MW 1:00-1:50(06) (P. Sylvain)
Spr CROL0300 S01 24074 MW 1:00-1:50(06) (P. Sylvain)

0400 Advanced Haitian Creole
Designed for those who wish to develop more advanced level conversational, reading, and writing skills. Students work with a variety of readings (stories, poems, plays), films, interviews, and popular songs that promote in-class discussion and written analysis. Extensive practice in translating from English to Haitian and vice versa, with the aim of developing accuracy, speed, and appropriateness (lexical, grammatical, and cultural). Prerequisite: CROL 0300. Enrollment limited to 20.

Fall CROL0400 S01 15385 F 3:00-5:20(15) (P. Sylvain)
Spr CROL0400 S01 24931 F 3:00-5:20(15) (P. Sylvain)

Latin American Studies

(For Undergraduates and Graduates)

1990 Individual Thesis Preparation

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
### Fall 1991 Individual Thesis Preparation
For Latin American Studies concentrators writing senior projects or honors theses. Instructor’s permission required. Not Open to: First Year Students, Sophomores, Juniors. Reserved for certain concentrations; please check Banner for the list.

### Fall 1992 Senior Seminar: Interpreting Latin America and the Caribbean Today
This seminar serves as a capstone course for the Latin American and Caribbean Studies concentration. Its purpose is to enable students to synthesize the diverse material covered throughout their interdisciplinary coursework in the concentration and to reflect on overarching questions, issues, and concepts related to Latin America and the Caribbean. Open to senior Latin American Studies concentrators. Instructor permission required.

### Spring XLIST Courses of Interest to Students Concentrating in Latin American Studies
The following courses, listed in other departments, may be of interest to students concentrating in Latin American Studies and may fulfill certain concentration requirements. Please check the course listings of the sponsoring department for times and locations.

### Anthropology
- ANTH 0100 Introduction to Cultural Anthropology
- ANTH 1120 Peoples and Cultures of the Americas

### Biology
- BIOL 1490 Human Impact on Ecosystems Functioning
- Community Health
- PHP 0030 Health of Hispaniola

### Comparative Literature
- COLT 1420F Fantastic and Existentialist Literatures of Argentina, Uruguay and Brazil

### Ethnic Studies
- ETHN 1890D Indigenous Music of the Americas

### Hispanic Studies
- HISP 0200 Basic Spanish
- HISP 0300 Intermediate Spanish I
- HISP 0500 Advanced Spanish Conversation/Hispanic Cultures and Civilization

### History
- HIST 1973X Maya in the Modern World
- HIST 1640 Clash of Empires
- HIST 1370S Tango: A Forgotten History Revealed

### Literary Arts
- LITR 1150H Latin American Poetry Live

### Portuguese & Brazilian Studies
- POBS 0200 Elementary Portuguese
- POBS 0400 Writing and Speaking Portuguese
- POBS 1500H The Esthers of the Diaspora
- POBS 1500V Modern Brazilian Theater
- POBS 1600C Cross-Cultural Perspective on Education
- POBS 1600D Portuguese Discoveries and Early Modern Globalization
- POBS 1750 Language, Culture and Society
- POBS 1800E The Brazilian Puzzle: Confronting the Post-Colonial Legacy
- POBS 1800F The Lusophone World and the Struggle for Modernity

### Religious Studies
- RELS 0850 Liberation Theology in the Americas

### Linguistics see Cognitive, Linguistic, and Psychological Sciences

### Creative Writing
- POBS 2500H The City and the Street
- POBS 2600I Modern and Contemporary Brazilian Poetry

### Workshops in Creative Writing I
Introductory workshops are designed for students who have little or no previous experience in writing literary texts in a particular genre. Students will be introduced to a variety of technical and imaginative considerations through exercises, readings and discussions. Creative Writing I workshops are not open to those students who have taken intermediate or advanced workshops in that genre. Enrollment limited to 17. WRIT

### Fiction I

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
A workshop for students who have little or no previous experience in writing fiction. Enrollment limited to 17 per section. This course is limited to undergraduates. S/NC. WRIT

Sum LITR0110A S01 60301 TTh 1:30-5:30 (K. Auerbach)
Fall LITR0110A S01 10626 M 5:30-7:50(18)
Fall LITR0110A S02 10627 T 4:00-6:20(13)
Fall LITR0110A S03 10628 Th 5:00-7:20(12)
Spr LITR0110A S01 20483 M 5:30-7:50(18)
Spr LITR0110A S02 20484 T 4:00-6:20(16)
Spr LITR0110A S03 20485 Th 5:00-7:20(12)
Spr LITR0110A S04 23639 F 3:00-5:20(15)

0110B Poetry I
A workshop for students who have little or no previous experience in writing poetry. Enrollment limited to 17 per section. This course is limited to undergraduates. S/NC. WRIT
Fall LITR0110B S01 10629 T 4:00-6:20(13)
Fall LITR0110B S02 10630 Th 5:00-7:20(12)
Fall LITR0110B S03 14100 Th 5:00-7:20(12)
Spr LITR0110B S01 20487 M 5:30-7:50(18)
Spr LITR0110B S02 20486 T 4:00-6:20(16)
Spr LITR0110B S03 23640 Th 5:00-7:20(12)
Spr LITR0110B S04 24040 F 3:00-5:20(15)

0210 Workshops in Creative Writing II
Designed for students who have some experience in writing literary texts. Introductory workshop in respective genre is desirable but not required. Most sections require readings from published work in addition to exercises and workshop discussions of works in progress. During registration, 12 spots may be filled by students who are concentrating in Literary Arts. All other students must submit a separate writing sample for each section to which they apply. All writing samples are due at 6:8-1/2 Brown Street on the first day of the semester. Permission will be issued by the instructor after the manuscripts have been reviewed. A student may take LITR 0210 up to six times for credit, but no more than three sections may be in one genre or interdisciplinary area. Enrollment limited to 17. WRIT

0210A Fiction Writing II
Topics often include stylistic matters related to tone and point of view, and structural matters like controlling switches in time. See general course description above for course entry procedures for all intermediate workshops. Written permission required. S/NC. WRIT Enrollment Limited to 17.
Fall LITR0210A S01 10645 M 5:30-7:50(18)
Fall LITR0210A S02 15709 W 3:00-5:20(14) (J. Howard)
Spr LITR0210A S01 20502 M 5:30-7:50(18) (J. Howard)
Spr LITR0210A S02 20503 Th 5:00-7:20(12)

0210B Poetry Writing II
Emphasis is placed on verse strategies, meter, rhythm, imagery and rhyme. Writing includes frequent exercises in various poetic traditions. See general course description above for course entry procedures for all intermediate workshops. Written permission required. S/NC. WRIT Enrollment limited to 17. WRIT
Fall LITR0210B S01 14419 T 4:00-6:20(13)
Spr LITR0210B S01 20504 T 4:00-6:20(16)

0210D Electronic Writing II
Project-oriented workshop for writers, visual/sound artists, filmmakers, and programmers wishing to explore techniques for effective and innovative use of text in digital media. Topics include hypertext narrative, kinetic poetry, and recombinant and computer-generated texts. Collaboration encouraged. Work sample (writing, programming, website) due on first day of semester. Enrollment limited to 17. Instructor permission required. S/NC. WRIT Students MUST register for a lab, and a lecture section.

0310C Ethnic Writing (ETHN 0300)
Interested students must register for ETHN 0300 S01 (CRN 24624).

0510 First Year Literary Seminars
Literature seminar courses designed for first-year undergraduate students. Each section will have its own special topic. Enrollment limited to 20 first year students. FYS

0510B Into the Machine
Starting from Turing's work on artificial intelligence, we shall examine the cultural and artistic ramifications of the rise of the machine, using Marx and Walter Benjamin to provide a framework. We will look at how machines generate anxiety, with special emphasis on robots, puppets and automatons; and we shall also consider utopian and dystopian images of machines, and visions of near and distant futures. Finally we will look at authors who utilize machine models of operation to generate artistic work. Authors and filmmakers include: Capek, E.T.A. Hoffman, Asimov, Lem, Breton, Redonet, Fritz Lang, Chaplin, Tati. Enrollment limited to 20 first year students. FYS

0610 First Year Special Topics Workshops
Special topics workshop courses designed for first-year undergraduate students. Each session will have its own special topic. Enrollment limited to 12 first year students. S/NC required. FYS

0610A Unpublishable Writing
This workshop explores writing projects which do not fit into conventional avenues of print publication (i.e. books). Through a series of prompted artistic projects we will explore how writing can interweave in new relationships with time, materials, sequence, procedural approaches, performance, and collaboration. Independent research will support your creative projects throughout the semester. Enrollment limited to 12 first year students. S/NC, FYS Fall LITR0610A S01 14103 T 12:00-2:20(10) (T. Field)

0610B Fiction Through Poetry
This course is designed for poets, fiction writers, and cross-genre enthusiasts interested in looking at narrative as it occurs at the level of the sentence, even the level of the word. We will use a variety of poetic texts as well as other fractured content as a means to think about fiction and the borderlands of storytelling. Students will be given weekly writing exercises. Enrollment limited to 12 first year students. S/NC, FYS Spr LITR0610B S01 25531 T 12:00-2:20(10) (A. Gladman)

0710 Writers on Writing Seminar
Offers students an introduction to the study of literature (including works from more than one genre) with special attention given to a writer's way of reading. This course will include visits to the course by contemporary writers who will read to the class and talk about their work. Enrollment limited to 20 first year students. FYS WRIT Fall LITR0710 S01 13103 TTh 2:30-3:50(11) (A. Gladman)
Fall LITR0710 S02 15710 TTh 2:30-3:50(11) (J. Howard)

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
student may take LITR 1010 up to six times for credit, but no more than three sections may be in one genre or interdisciplinary area. Enrollment limited to 12. WRIT

1010A Advanced Fiction
The writing of short stories or longer works in progress in regular installments, along with appropriate exercises and reading assignments. See general course description above for course entry procedures for all advanced workshops. Written permission required. Enrollment limited to 12. S/NC. WRIT

Fall LITR1010A S01 10648 M 3:00-5:20(13) (T. Field)
Fall LITR1010A S02 10649 Th 10:30-12:50(09) (M. Steinbach)
Fall LITR1010A S03 15975 T 12:00-2:20(10) (J. Wideman)
Spr LITR1010A S01 20511 T 12:00-2:20(10) (M. Steinbach)
Spr LITR1010A S02 25526 W 3:00-5:20(14) (A. Gladman)

1010B Advanced Poetry
Course work includes a body of exercises, close reading of poetry, workshop conversations and conferences. See general course description above for course entry procedures for all advanced workshops. Instructor permission required. Enrollment limited to 12. S/NC. WRIT

Fall LITR1010B S01 10655 W 3:00-5:20(14) (M. Harper)
Spr LITR1010B S01 20545 M 3:00-5:20(13) (P. Nelson)

1010D Advanced Electronic Writing
An advanced experimental workshop in writing for digital media. Students should have some experience of working with computer-based authoring tools for generating content. Writing for digital media is taken to mean any writing for which electronic supports are vital: to its literary aesthetic, to its cultural viability as (potential) literary art. The primary aim of the course is to produce a work of writing in digital media, but associated readings and discussion will draw out the problems associated with this contemporary challenge to traditional practices. Prerequisite one of the following: LITR 0210D, 1010A, 1010B, 1010C, 1010E, 1010G (or related experience). Enrollment limited to 12. S/NC. WRIT

Fall LITR1010D S01 13629 W 3:00-5:20(14) (J. Cayley)

1010E Advanced Screenwriting
The writing of short screenplays or a longer work in progress in regular installments, along with a body of exercises, workshop conversations and conferences. See general course description above for course entry procedures for all advanced workshops. Instructor permission required. Enrollment limited to 12. S/NC. WRIT

Fall LITR1010E S01 15711 M 3:00-5:20(13) (A. Rahman)

1010F Advanced Translation
This translation workshop will focus on translating poetry texts from English to English; and then poems from another language (with which the student has facility) to an English version. Writing samples due on first day of the semester. Written permission required. Enrollment limited to 12. S/NC. WRIT

Fall LITR1010F S01 15712 M 3:00-5:20(13) (B. Waldrop)
Spr LITR1010F S01 23832 M 3:00-5:20(13) (F. Gander)

1010G Cave Writing
An advanced experimental workshop for writing in immersive 3D - at the cutting edge of new media - introducing text, sound, spatial poetics, and narrative movement into Brown's "Cave" at its Center for Computation and Visualization. An easy-to-learn and easy-to-use application allows non-programmers to create projects on their laptops and then to run them in the Cave without the necessity for specialist support. Broadly interdisciplinary, the course encourages collaboration between students with different skills in different media, who work together to discover a literary aesthetic in artificially rendered space. Instructor permission required. Enrollment limited to 12. S/NC. WRIT

Fall LITR1010G S01 13628 M 3:00-5:20(13) (J. Cayley)

1110 Advanced Creative Writing Special Topics Workshops
Workshops provide students with a forum for extended practice of the art of writing within the context of a special topic that may focus on a particular genre or cross the boundaries of genre. Students must submit a separate writing sample for each section to which they wish to apply. All writing samples are due at 68-1/2 Brown Street on the first day of the semester. Permission will be issued by the instructor after the manuscripts have been reviewed. A student may take LITR 1110 up to six times for credit, but may not repeat a particular special topic. Enrollment limited to 12. S/NC WRIT

1110L Aspects of Contemporary Prose Practice
Using Chimamanda Ngozi Adichie's Purple Hibiscus, Tayeb Saleh's The Weddingof Zein and Other Stories, Luis Bernard Honwana's We Killed Mangy Dog, and Our Sister Killjoy, this course will look at prose narrative in contemporary African literature, for a background to general narrative practice. Among areas of special interest, the course will examine the contents and structure of the short story, not as an abbreviated genre, but as an autonomous genre. We shall also look at literature in translation, and discuss what the reader loses in the process if anything, and how much that matters, if at all. Students will be expected to work on short stories and novel chapters. Instructor permission required. Enrollment limited to 12. S/NC. WRIT

Fall LITR1110L S01 14102 T 4:00-6:20(13) (A. Aidoo)

1110S Fiction into Film

Fall LITR1110S S01 14104 T 10:30-12:50(09) (M. Steinbach)

1150 Special Topics Workshop/Seminar in Literary Arts
Special topics workshops/seminars combine elements of the writing workshop with elements of a seminar on literary issues. Courses under this rubric will require students to read, discuss and write creative and critical work. Students must submit a separate writing sample for each section to which they wish to apply. The writing sample is due at the first class session. Permission will be issued by the instructor after the manuscripts have been reviewed. Enrollment limited to 12. WRIT

1150F Home and Abroad
This course combines seminar and workshop sessions for students with special interest in the writing of novels and short fiction. Attention will be given to the ways certain English and American writers - Herman Melville, Joseph Conrad, E. M. Forster, Graham Greene - have interpreted the lives of people in other and foreign cultures. These are classic examples of the meeting of insiders and outsiders in the house of fiction. Instructor permission required. Enrollment limited to 12. WRIT

Fall LITR1150F S01 10930 W 3:00-5:20(14) (G. Lamming)

1150S What Moves at the Margins
A multi-genre seminar/workshop based on fiction, non-fiction and dramatic literature that has been banned or otherwise marginalized because it is critical, interrogative and alternative. Weekly writing exercises based on readings and discussions in class. A term project is required. For students who love literature. For admission, students may submit fiction, non-fiction or drama. Enrollment limited to 12. S/NC. WRIT
Fall LITR1150S S01 15713 T 12:00-2:20(10)  (A. Rahman)

1150V The Novel in Brief
This workshop/seminar takes the novel form on a wild ride as it investigates concepts such as compression, fragmentation, miniaturization, and sequencing in the construction of narratives. Students will be required to write their own brief novel over the course of the semester. Writing sample due at first class session. Instructor permission given after review of manuscripts. Enrollment limited to 12.

WRIT

Fall LITR1150V S01 15717 TTh 1:00-2:20(10)  (A. Gladman)

1150W Clown Aesthetics
Clown as literary structure and trope as well as character will be our focus. We will ask if this "clown aesthetic" exists, could exist, should or might continue to exist -- in fiction, performance, and film in particular.
Clowning of all kinds considered from history, theory, literary and performing arts. Graduate and undergraduate students from all disciplines invited. This workshop course includes individual research as well as collaborative projects. Come to first class for permission. Enrollment limited to 12. S/NC. WRIT

Spr LITR1150W S01 25532 W 3:00-5:20(14)  (T. Field)

1150X Reading, Writing and Thinking
We will explore various ways to engage with a work of art in order to fuel one's imagination and projects. Close textual reading of several books with writing assignments based on the readings. Writers will include Woolf, Stein, Beckett, Coetzee, Kertesz and others. Writing samples due at first class session. Instructor permission given after review of manuscripts. Enrollment limited to 12. S/NC. WRIT

Fall LITR1200 S01 10692 TTh 2:30-3:50(11)  (F. Gander)

1220 Reading, Research, and Writing About Literature
Students may repeat courses, provided that the topics are different.

1220A History and Practice of English Versification
An opportunity to study through reading and imitating poems that represent a variety of poetic eras and traditions. S/NC.

Fall LITR1220A S01 15714 TTh 1:00-2:20(10)  (B. Waldrop)

1220G The Waste Land and After
We shall examine Eliot's poem, and then deal with early poems by W.H. Auden and the work of Charles Williams and David Jones. S/NC.

Spr LITR1220G S01 25534 TTh 2:30-3:50(11)  (B. Waldrop)

1230 seminars in Reading, Research, and Writing about Literature
Designed for students who have an interest in reading, researching and writing about literature, in a seminar environment, under the instruction of a practitioner in the discipline. Students may repeat courses provided that the topics are different. Enrollment limited to 20.

1230C Poetry Newly in Translation in English
This is a reading, writing, translation, and discussion class. Commit to a vigorous combination of all four. Some translation theory will be reviewed, but the emphasis of the course is upon models of translations. Texts will include works by Ivana Blatny, Inger Christensen, Luise Lleshanaku, David Huerta, Takashi Hiraide; new translations of Rimbaud and Baudelaire and others. Enrollment limited to 20.

Sanford Brown College - Campus of Providence / Fall 2010

Spr LITR1230C S01 25529 M 3:00-5:20(13)  (C. Wright)

1230E Form and Theory of Fiction
"Form and Theory of Fiction" offers an exploration of narrative theories directed particularly at creative writers, in conjunction with a hands-on examination of contemporary fictional narrative practices. Theoretical readings include historical essays on fiction and work by Gaston Bachelard, Mieke Bal, Gilles Deleuze, and others. Enrollment limited to 20.

Fall LITR1230E S01 15715 TTh 10:30-11:50(09)  (B. Evenson)

1230G Master Poets of Apartheid Streets: Sterling Brown, Robert Hayden, Margaret Walker, Gwendolyn Brooks
With the theme of "Slavery and Justice" in recent Brown University review, [4] "Master Poets of Apartheid Streets: Perpetual Resistance against de jure and de facto Segregation" is the formal and precise employment as Critics the poet's aperçu, the pernicious social, economic and educational racism: the aesthetic stance of this seminar is "An Integer Is a Whole Number." Through close attention to the conventions of poetry as praxis by these four master poets, in social context, the modality of this study is poetic discourse (what Frederick Douglass called "a sacred effort" in Douglass' description of President A. Lincoln's "Second Inaugural."). Peripheral insights will be provided by Brown University researchers of the past: Charles H. Nichols, Winthrop Jordan, Richard Slotkin, in their three dissertations, and James R. Patterson's most recent book on "Brown v. Board of Education." Written permission required. Enrollment limited to 20.

Fall LITR1230G S01 15716 Th 4:00-6:20(13)  (M. Harper)

1230J Writing: Material Differences
An exploration of practices that make a material difference to writing, that may change what writing is in specific cultural circumstance and locations. We will look for such differences through transcultural and translingual experiments with writing, beginning "West" and moving "East." We will engage with a selection of widely divergent writers and genres, with emphasis on poetics - particularly a translated rendition of Chinese poetics (such as was taken up by Pound and became influential in English literature) - and on theories that we can use for our practice, from: Fenollosa, Foucault, Derrida, and others.
Enrollment limited to 20. DVPS

Spr LITR1230J S01 20820 T 4:00-6:20(16)  (J. Cayley)

1230K Latin American Death Trip
Death is the subject of many of the greatest (most moving, innovative, funny, haunting, political, oneiric) Latin American poems of the 20th century, from Gorostiza's Death without End to Villaurrutia's Nostalgia for Death to Saenz' The Night. What is up with Latin Americans and death? What particularities of culture, gender, age, faith or experience might account for the visionary clarity of death as constant companion of the permeable border, etc.? What makes the poems great? We shall read classic Latin American books in bilingual editions (so Spanish literacy is not a requirement, but we'll talk about translation issues). Students will be expected to participate in literary discussions, to write essays and a death poem. Enrollment limited to 20.

Fall LITR1230K S01 15719 M 3:00-5:20(13)  (F. Gander)

1230L Eros: Hot and Sour
Literature, early and late, distant and near, at the intersection of love and loathing. A seminar on selected texts deriving their blood from poetry, their flesh from fiction, their anatomy from form and theory. Including works by Rikki Ducornet, Anne Carson, Roland Barthes, Helen Cixous, Gertrude Stein, Catiuus, Henry Miller, et al. Enrollment limited to 20.

Spr LITR1230L S01 25754 W 3:00-5:20(14)  (C. Wright)

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
Workshop setting for the completion of theses by advanced writers of
Fiction Honors
Offers tutorial instruction oriented toward some significant work in
progress by the student. Typically taken by honors or capstone
candidates in the antepenultimate or penultimate semester. See
instructor to seek permission during the semester before undertaking
the course of study. Admission limited to 12 senior Literary Arts
concentrators. S/NC. Instructor's permission required.

Honors Workshops in Creative Writing
Workshops provide a forum for students working on their theses or
capstone projects. See instructor for permission during the semester
before undertaking the course. Enrollment limited to 12. S/NC.

Honors Independent Study in Creative Writing
Provides tutorial instruction for students completing their theses or
capstone projects. Typically taken by honors or capstone candidates
in their final semester. See instructor to seek permission during the
semester before undertaking the course of study. S/NC. Instructor's
permission required.

(Primarily for Graduates)

Graduate Workshops in Literary Arts
Graduate-level practice of the art: writing workshops, ordinarily limited
to graduate students in Literary Arts, with emphasis on a better
understanding of creative process, strategies and forms. A student
may take LITR 2010 up to six times for credit, but no more than
three sections may be in one genre or interdisciplinary area.

Graduate Fiction
Advanced practice of the art: a writing seminar, limited to graduate
students in Literary Arts. Emphasis is placed on developing a better
understanding of the creative process, strategies and forms. Written
permission required. S/NC.

Graduate Poetry
Advanced practice of the art: a writing seminar, limited to graduate
students in Literary Arts. Emphasis is placed on developing a better
understanding of the creative process, strategies and forms. Written
permission required. S/NC.

Graduate Workshops in Special Topics
Literary Arts 2110 workshops provide students with a forum for
extended practice of the art of writing within the context of a special
topic. These courses are ordinarily limited to graduate students in
Literary Arts.

Essays Without Borders
A workshop for writing, performing, or media artists exploring essay or
non-fiction forms in any genre. No project too strange, no essay too
fanciful. Readings and research into experimental non-fiction.
Individual and group work as well as critical and artistic projects.
Literary Arts MFAs will be given priority. Come to first meeting for
permission. Enrollment limited to 12. Permission required. S/NC.

Graduate Independent Study in Reading, Research, and
Writing About Literature
Provides graduate students with an opportunity to pursue tutorial
instruction oriented toward a literary research topic. Instructor's
permission required.

Graduate Independent Studies in Literary Writing
Offers tutorial instruction oriented toward some significant work in
progress by the graduate student. S/NC. Instructor's permission
required.

Graduate Thesis Independent Study in Literary Writing
Provides tutorial instruction for graduate students completing their
graduate creative theses. Typically taken in the final semester. See
instructor to seek permission during the semester before undertaking
the course of study. S/NC. Instructor's permission required.

Seminar in Teaching Creative Writing
A course focused on how to design and lead a creative writing
workshop. Reading, writing and laboratory workshop sessions.
Designed for first-year Literary Arts graduate students. S/NC.

Mathematics

First Year Seminar
The course description will vary from semester to semester, depending
on the faculty member and topic. Enrollment limited to 15 first year
students.

From 'Flatland' to the Fourth Dimension
Enrollment limited to 15 first year students. FYS

Analytic Geometry and Calculus
MATH 0050 and 0060 provide a slower-paced introduction to calculus
for students who require additional preparation. Presents the same
calculus topics as MATH 0090, together with a review of the necessary
precalculus topics. Students successfully completing this sequence are
prepared for MATH 0100. Prerequisite: for MATH 0050 is written
permission; for MATH 0060 is MATH 0050 or written permission. S/NC
only.

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
0060 Analytic Geometry and Calculus
A slower-paced introduction to calculus for students who require additional preparation. Presents the same calculus topics as MATH 0090, together with a review of the necessary precalculus topics. Students successfully completing this sequence are prepared for MATH 0100. Prerequisite: for MATH 0050 is written permission; for MATH 0060 is MATH 0050 or written permission. S/NC only.

0090 Introductory Calculus, Part I
An intensive course in calculus of one variable including limits, differentiation, maxima and minima, the chain rule, rational functions, trigonometric functions, and exponential functions. Introduction to integration with applications to area and volumes of revolution. MATH 0090 and 0100 or the equivalent are recommended for all students intending to concentrate in the sciences or mathematics. Lectures plus one 80-minute section arranged. S/NC only. Students MUST register for a conference, and a lecture section.

0100 Introductory Calculus, Part II
A continuation of the material of MATH 0090 including further development of integration, inverse trigonometric and logarithmic functions, techniques of integration, and applications. Other topics include infinite series, power series, Taylor's formula, introduction to differential equations, and numerical methods. MATH 0090 and 0100 or the equivalent are recommended for all students intending to concentrate in the sciences or mathematics. Lectures plus one 80-minute section arranged. Students MUST register for a conference, and a lecture section.

0170 Advanced Placement Calculus
Covers roughly the same material as MATH 0180, but is intended for students with a special interest in physics or engineering. The main topics are: calculus of vectors and paths in two and three dimensions; differential equations of the first and second order; and infinite series, including power series and Fourier series. The extra hour is a weekly problem session.

0190 Advanced Placement Calculus (Physics/Engineering)
Covers roughly the same material as MATH 0170, but is intended for students with a special interest in physics or engineering. The main topics are: calculus of vectors and paths in two and three dimensions; differential equations of the first and second order; and infinite series, including power series and Fourier series. The extra hour is a weekly problem session. Recommended prerequisite: MATH 0100, 0170, or 0190.

0200 Intermediate Calculus (Physics/Engineering)
Covers roughly the same material as MATH 0180, but is intended for students with a special interest in physics or engineering. The main topics are: geometry of three-dimensional space; partial derivatives; Lagrange multipliers; double, surface, and triple integrals; vector analysis; Stokes' theorem and the divergence theorem, with applications to electrostatics and fluid flow. The extra hour is a weekly problem session. Recommended prerequisite: MATH 0100, 0170, or 0190.

0350 Honors Calculus
A third-semester calculus course for students of greater aptitude and motivation. Topics include vector analysis, multiple integration, partial differentiation, line integrals, Green's theorem, Stokes' theorem, the divergence theorem, and additional material selected by the instructor. Prerequisite: Advanced placement or written permission.

0420 Introduction to Number Theory
An overview of one of the most beautiful areas of mathematics. Ideal for any student who wants a taste of mathematics outside of, or in addition to, the calculus sequence. Topics include: prime numbers, congruences, quadratic reciprocity, sums of squares, Diophantine equations, and, as time permits, such topics as cryptography and continued fractions. No prerequisites.

0520 Linear Algebra
Vector spaces, linear transformations, matrices, systems of linear equations, bases, projections, rotations, determinants, and inner products. Applications may include differential equations, difference equations, least squares approximations, and models in economics and in biological and physical sciences. MATH 0520 or 0540 is a
prerequisite for all 1000-level courses in Mathematics except MATH 1260 or 1610. Recommended prerequisite: MATH 0180, 0200, or 0350. May not be taken in addition to MATH 0540.

Fall MATH0520 S01 11962 MWF 11:00-11:50(17) (B. Pausader)
Fall MATH0520 S02 12183 MWF 9:00-9:50(17) (H. Oh)
Spr MATH0520 S01 21564 MWF 10:00-10:50(17)
Spr MATH0520 S02 21565 MWF 11:00-11:50(17)
Spr MATH0520 S03 21566 MWF 1:00-1:50(17)
Spr MATH0520 S04 21567 TTh 1:00-2:20(17) (N. Kapouleas)

0540 Honors Linear Algebra
Linear algebra for students of greater aptitude and motivation, especially mathematics and science concentrators with a good mathematical preparation. Matrices, linear equations, determinants, and eigenvalues; vector spaces and linear transformations; inner products; Hermitian, orthogonal, and unitary matrices; and Jordan normal forms. Provides a more extensive treatment of the topics in MATH 0520. Recommended prerequisites: MATH 0180, 0200, or 0350.

Fall MATH0540 S01 11964 TTh 1:00-2:20(17)
Spr MATH0540 S01 21568 MWF 10:00-10:50(17) (S. Treil)
Spr MATH0540 S04 21567 TTh 1:00-2:20(17) (N. Kapouleas)

0580 Mathematical Forms in Architecture
This project will explore and advance innovative applications of mathematics to architecture using computational methods. Historically, architecture has been guided primarily by an intuitive creative process. In contrast to the end-results of intuitive design, many "optimal" forms--i.e. geometric shapes and configurations that satisfy extremal conditions--are unique because they are the result of systematic physical experiments or explicit mathematical study in addition to imaginative input. Classic questions for which human intuition alone has been incapable of finding a solution include: What is the exact shape of the optimal arch?, or What is the shape of a child's slide that minimizes the time of travel? The use of computational methods to generate solutions to these problems will be made considerably simpler via optimization libraries in Mathematica. The application to architecture in this project will provide students a unique concrete backdrop to visualize solutions to these problems.

Sum MATH0580 S01 60304 TTh 9:00-1:00

(For Undergraduates and Graduates)

1010 Analysis: Functions of One Variable
Completeness properties of the real number system, topology of the real line. Proof of basic theorems in calculus, infinite series. Topics selected from ordinary differential equations. Fourier series, Gamma functions, and the topology of Euclidean plane and 3-space. Prerequisite: MATH 0180, 0200, or 0350. MATH 0520 or 0540 may be taken concurrently. Most students are advised to take MATH 1010 before MATH 1130.

Spr MATH1010 S01 21404 TTh 10:30-11:50(09)

1040 Fundamental Problems of Geometry
Topics are chosen from euclidean, projective, and affine geometry. Highly recommended for students who are considering teaching high school mathematics. Prerequisites: MATH 0520, 0540, or instructor permission.

Spr MATH1040 S01 24445 TTh 10:30-11:50(09) (G. Daskalopoulos)

1060 Differential Geometry
The study of curves and surfaces in 2- and 3-dimensional Euclidean space using the techniques of differential and integral calculus and linear algebra. Topics include curvature and torsion of curves, Frenet-Serret frames, global properties of closed curves, intrinsic and extrinsic properties of surfaces, Gaussian curvature and mean curvature, geodesics, minimal surfaces, and the Gauss-Bonnet theorem.

Fall MATH1060 S01 11965 TTh 10:30-11:50(09) (T. Banchoff)

1110 Ordinary Differential Equations
Ordinary differential equations, including existence and uniqueness theorems and the theory of linear systems. Topics may also include stability theory, the study of singularities, and boundary value problems.

Fall MATH1110 S01 11966 TTh 10:30-11:50(09) (A. Landman)

1120 Partial Differential Equations
The wave equation, the heat equation, Laplace's equation, and other classical equations of mathematical physics and their generalizations. Solutions in series of eigenfunctions, maximum principles, the method of characteristics, Green's functions, and discussion of well-posedness. Prerequisites: MATH 0520 or MATH 0540, or instructor permission.

Spr MATH1120 S01 21737 MWF 11:00-11:50(04) (B. Pausader)

1130 Functions of Several Variables
A course on calculus on manifolds. Included are differential forms, integration, and Stokes' formula on manifolds. with applications to geometrical and physical problems, the topology of Euclidean spaces, compactness, connectivity, convexity, differentiability, and Lebesgue integration. It is recommended that a student take a 1000-level course in analysis (MATH 1010 or MATH 1260) before attempting MATH 1130.

Fall MATH1130 S01 11967 TTh 1:00-2:20(10) (T. Goodwillie)

1140 Functions Of Several Variables
See Functions Of Several Variables (MATH 1130) for course description. Prerequisite: MATH 1130 or instructor permission.

Spr MATH1140 S01 21405 MWF 1:00-1:50(06) (B. Cole)

1260 Complex Analysis
Examines one of the cornerstones of mathematics. Complex differentiability, Cauchy-Riemann differential equations, contour integration, residue calculus, harmonic functions, geometric properties of complex mappings. Prerequisite: MATH 0180, 0200, or 0350. This course does not require MATH 0520 or 0540.

Fall MATH1260 S01 13583 MWF 11:00-11:50(04) (J. Holmer)

1270 Topics in Functional Analysis
Infinite-dimensional vector spaces with applications to some or all of the following topics: Fourier series and integrals, distributions, differential equations, integral equations, calculus of variations. Prerequisite: At least one 1000-level course in Mathematics or Applied Mathematics, or permission of the instructor.

Fall MATH1270 S01 15959 MWF 10:00-10:50(03) (H. Oh)

1410 Combinatorial Topology
Topology of Euclidean spaces, winding number and applications, knot theory, fundamental group and covering spaces. Euler characteristic, simplicial complexes, classification of two-dimensional manifolds, vector fields, the Poincaré-Hopf theorem, and introduction to three-dimensional topology. Prerequisites: MATH 0520 or MATH 0540, or instructor permission.

Spr MATH1410 S01 23519 TTh 2:30-3:50(11) (T. Banchoff)

1530 Abstract Algebra
An introduction to the principles and concepts of modern abstract algebra. Topics include groups, rings, and fields; applications to...
number theory, the theory of equations, and geometry. MATH 1530 is required of all students concentrating in mathematics.

Fall MATH1530 S01 11968 MWF 10:00-10:50(03) (D. Abramovich)
Spr MATH1530 S01 21570 TTh 2:30-3:50(11) (R. Kenyon)

1540 Topics in Abstract Algebra
Galois theory together with selected topics in algebra. Examples of subjects which have been presented in the past include algebraic curves, group representations, and the advanced theory of equations. Prerequisite: MATH 1530.

Spr MATH1540 S01 21408 TTh 1:00-2:20(10) (R. Schwartz)

1560 Number Theory
A basic introduction to the theory of numbers. Unique factorization, prime numbers, modular arithmetic, quadratic reciprocity, quadratic number fields, finite fields, Diophantine equations, and additional topics. Prerequisite: MATH 1530 or written permission.

Spr MATH1560 S01 21410 TTh 10:30-11:50(09) (M. Rosen)

1580 Cryptography
The main focus is on public key cryptography. Topics include symmetric ciphers, public key ciphers, complexity, digital signatures, applications and protocols. MATH 1530 is not required for this course. What is needed from abstract algebra and elementary number theory will be covered. Prerequisite: MATH 0520 or MATH 0540.

Fall MATH1580 S01 11969 MWF 11:00-11:50(04) (J. Silverman)

1610 Probability
Basic probability theory. Sample spaces; random variables; normal, Poisson, and related distributions; expectation; correlation; and limit theorems. Applications in various fields (biology, physics, gambling, etc.). Prerequisites: MATH 0180, 0200 or 0350.

Fall MATH1610 S01 11970 TTh 9:00-10:20(08) (R. Kenyon)

1620 Mathematical Statistics
Central limit theorem, point estimation, interval estimation, multivariate normal distributions, tests of hypotheses, and linear models. Prerequisite: MATH 1610 or written permission.

Spr MATH1620 S01 21413 TTh 1:00-2:20(10) (M. Vuletic)

1970 Honors Conference
Collateral reading, individual conferences. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course.
Fall; Spr

(Primarily for Graduates)

2010 Differential Geometry
Introduction to differential geometry (differentiable manifolds, differential forms, tensor fields, homogeneous spaces, fiber bundles, connections, and Riemannian geometry), followed by selected topics in the field.

Fall MATH2010 S01 11973 ’To Be Arranged” (G. Daskalopoulos)

2050 Algebraic Geometry
Complex manifolds and algebraic varieties, sheaves and cohomology, vector bundles, Hodge theory, Kähler manifolds, vanishing theorems, the Kodaira embedding theorem, the Riemann-Roch theorem, and introduction to deformation theory.

Fall MATH2050 S01 11974 ’To Be Arranged” (D. Abramovich)

2060 Algebraic Geometry

See Algebraic Geometry (MATH 2050) for course description.

Spr MATH2060 S01 21415 ’To Be Arranged” (S. Lichtenbaum)

2110 Introduction to Manifolds
Inverse function theorem, manifolds, bundles, Lie groups, flows and vector fields, tensors and differential forms, Sard's theorem and transversality, and further topics chosen by instructor.

Spr MATH2110 S01 21416 ’To Be Arranged” (N. Kapouleas)

2250 Complex Function Theory
Introduction to the theory of analytic functions of one complex variable. Content varies somewhat from year to year, but always includes the study of power series, complex line integrals, analytic continuation, conformal mapping, and an introduction to Riemann surfaces.

Fall MATH2250 S01 11979 ’To Be Arranged” (S. Treil)

2260 Complex Function Theory
See Complex Function Theory (MATH 2250) for course description.

Spr MATH2260 S01 21417 ’To Be Arranged” (S. Treil)

2370 Partial Differential Equations
The theory of the classical partial differential equations; the method of characteristics and general first order theory. The Fourier transform, the theory of distributions, Sobolev spaces, and techniques of harmonic and functional analysis. More general linear and nonlinear elliptic, hyperbolic, and parabolic equations and properties of their solutions, with examples drawn from physics, differential geometry, and the applied sciences. Semester II concentrates on special topics chosen by the instructor.

Fall MATH2370 S01 15960 ’To Be Arranged” (J. Holmer)

2380 Partial Differential Equations
The theory of the classical partial differential equations; the method of characteristics and general first order theory. The Fourier transform, the theory of distributions, Sobolev spaces, and techniques of harmonic and functional analysis. More general linear and nonlinear elliptic, hyperbolic, and parabolic equations and properties of their solutions, with examples drawn from physics, differential geometry, and the applied sciences. Semester II of this course concentrates on special topics chosen by the instructor.

Spr MATH2380 S01 25693 ’To Be Arranged” (W. Strauss)

2410 Topology
An introductory course with emphasis on the algebraic and differential topology of manifolds. Topics include simplicial and singular homology, de Rham cohomology, and Poincaré duality.

Fall MATH2410 S01 11980 ’To Be Arranged” (T. Goodwillie)

2420 Topology
See Topology (MATH 2410) for course description.

Spr MATH2420 S01 21418 ’To Be Arranged” (T. Goodwillie)

2510 Algebra
Basic properties of groups, rings, fields, and modules. Topics include: finite groups, representations of groups, rings with minimum condition, Galois theory, local rings, algebraic number theory, classical ideal theory, basic homological algebra, and elementary algebraic geometry.

Fall MATH2510 S01 11981 ’To Be Arranged” (A. Goncharov)

2520 Algebra
See Algebra (MATH 2510) for course description.

Spr MATH2520 S01 21419 ’To Be Arranged” (A. Braverman)
2530 Number Theory
Introduction to algebraic and analytic number theory. Topics covered during the first semester include number fields, rings of integers, primes and ramification theory, completions, adeles and ideles, and zeta functions. Content of the second semester varies from year to year; possible topics include class field theory, arithmetic geometry, analytic number theory, and arithmetic K-theory. Prerequisite: MATH 2510.

Fall  MATH2530  S01  11996  ‘To Be Arranged’  (A. Braverman)

2540 Number Theory
See Number Theory (MATH 2530) for course description.

Spr  MATH2540  S01  21430  ‘To Be Arranged’  (J. Silverman)

2720 Advanced Topics in Mathematics
May be repeated for credit.

2720G To Be Determined
Spr  MATH2720G  S01  25808  ‘To Be Arranged’

2720H To Be Determined
Spr  MATH2720H  S01  25809  ‘To Be Arranged’  (H. Oh)

2970 Preliminary Exam Preparation
Fall  MATH2970  S01  11997  ‘To Be Arranged’
Spr  MATH2970  S01  21434  ‘To Be Arranged’

2980 Reading and Research
Independent research or course of study under the direction of a member of the faculty, which may include research for and preparation of a thesis. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course.

Fall; Spr

2990 Thesis Preparation
For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing a thesis.

Fall  MATH2990  S01  12001  ‘To Be Arranged’
Spr  MATH2990  S01  21435  ‘To Be Arranged’

Fall XLIST Courses of Interest to Graduate Students Majoring in Mathematics
The following courses may be taken for credit by graduate students majoring in Mathematics. Please check with the sponsoring department for times and locations.

Applied Mathematics
APMA 2110 Real Analysis
APMA 2630 Probability

Spring XLIST Courses of Interest to Graduate Students Majoring in Mathematics
The following courses may be taken for credit by graduate students majoring in Mathematics. Please check with the sponsoring department for times and locations.

Applied Mathematics
APMA 2120 Hilbert Spaces and Their Applications
APMA 2640 Probability

Medieval Studies

0360 Medieval Perspectives
The Middle Ages, conventionally the thousand years from 500 to 1500 C.E. in Western, Central, and Eastern Europe, were a period of great inventiveness and radical innovation in human society. This seminar is directed by faculty from the Program in Medieval Studies and is designed to provide insight into selected aspects of these formative centuries. Full participation in class discussion of assigned readings is expected of each student.

Spr  MDVL0360  S01  20124  TTh 2:30-3:50(11)  (A. Remensnyder)

0400C Matters of Romance (ENGL 0400C)
Interested students must register for ENGL 0400C S01 (CRN 25151).

0410 Christianity in Late Antiquity (RELS 0410)
Interested students must register for RELS 0410 S01 (CRN 25377).

0660 The World of Byzantium (CLAS 0660)
Interested students must register for CLAS 0660 S01 (CRN 15953).

0971A The Holy Grail and the Historian's Quest for the Truth (HIST 0971A)
Interested students must register for HIST 0971A S01 (CRN 21574).

1020 Living Together: Muslims, Christians, and Jews in Medieval Iberia (HIST 1020)
Interested students must register for HIST 1020 S01 (CRN 15481).

1040 Europe in the High Middle Ages (ca. 1000-ca. 1450) (HIST 1040)
Interested students must register for HIST 1040 S01 (CRN 23469).

1110F Fortunatus (LATN 1110F)
Interested students must register for LATN 1110F S01 (CRN 15517).

1110T Rhetors and Philosophers: Intellectual Thought and Sophistic Style in the Ancient World (GREK 1110T)
Interested students must register for GREK 1110T S01 (CRN 15513).

1120C Survey of Late and Medieval Latin (LATN 1120C)
Interested students must register for LATN 1120C S01 (CRN 25311).

1120G The Idea of Self (CLAS 1120G)
Interested students must register for CLAS 1120G S01 (CRN 15507).

1300 Ancient Christianity and the Sensing Body (RELS 1300)
Interested students must register for RELS 1300 S01 (CRN 15568).

1310V Chaucer: The Canterbury Tales (ENGL 1310V)
Interested students must register for ENGL 1310V S01 (CRN 15412).

1360J Literatures of Medieval England (ENGL 1360J)
Interested students must register for ENGL 1360J S01 (CRN 25166).

1520 Pilgrimage and Sacred Travel in the Lands of Islam (RELS 1520)
Interested students must register for RELS 1520 S01 (CRN 15572).

1750L Erotic Desire in the Premodern Mediterranean (CLAS 1750L)
Interested students must register for CLAS 1750L S01 (CRN 25799).

1970 Independent Study
Tutorial instruction on an approved topic in Late Antique and/or Medieval cultures, supervised by a member of staff. Section numbers
vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. May be repeated once for credit. Instructor’s permission required.

Fall; Spr

1990 Honors Thesis
Independent research and writing on a topic of special interest to the student, under the direction of a faculty member. Required of candidates for honors. Permission should be obtained from the Director of the Program in Medieval Studies. Instructor’s permission required.

Fall; Spr

(Primarily for Graduates)

2110F Greek Palaeography and Premodern Book Cultures (GREK 2110F)
Interested students must register for GREK 2110F S01 (CRN 25309).

2360Q Manuscript, Image, and the Middle English Text (ENGL 2360Q)
Interested students must register for ENGL 2360Q S01 (CRN 15443).

Middle East Studies
(For Undergraduates and Graduates)

1970 Individual Research Project
Limited to juniors and seniors. Section numbers vary by instructor. Please check Banner for the correct section and CRN to use when registering for this course. Required: all proposals for independent study must be approved by the faculty sponsor and the MES program director. Students should not register for any section of MES 1970 without this approval. Instructor’s permission required.

Fall; Spr

Fall XLIST Courses of Interest to Students Concentrating in Middle East Studies
The following related courses, offered in other departments, may be of interest to students concentrating in Middle East Studies. Please see the course listing of the sponsoring department for times and locations.

Arabic
ARAB 0100 First-year Arabic
ARAB 0300 Second-year Arabic
ARAB 0500 Third-year Arabic
ARAB 0700 Fourth-year Arabic

Archaeology and the Ancient World
ARCH 0445 Archaeology of the Bible

Comparative Literature
COLT 1410G Balkan Cinema

Hindi-Urdu
HNDI 0100 Beginning Hindi-Urdu
HNDI 0300 Intermediate Hindi-Urdu
HNDI 1080 Advanced Hindi-Urdu

History
HIST 1440 Islamic History
HIST 1460 History of the Modern Middle East since 1918
HIST 1971N Dissolution of the Ottoman Empire
HIST 1971P Identity Conflicts in Middle East History, 1900-Present
HIST 1975U Gender, Empire and Nation in the Middle East

Judaic Studies
JUDS 0110 Elementary Hebrew
JUDS 0130 Intermediate Hebrew
JUDS 0150 Writing and Speaking Hebrew

Modern Culture and Media
(Primarily for Undergraduates)

0100 Introduction to Modern Culture and Media
An introduction to key forms that constitute media in modern culture: photography, film, recorded sound, print, television, video, and digital media. We will examine the materials of such media, and produce critical accounts of them as representational forms as well as aesthetic, social, and/or political practices. Our discussions will be structured by major theoretical concepts and approaches. Students MUST register for the lecture section and the screening. A sign up-
0730 Introduction to Video Production: Critical Strategies and Histories
Provides the basic principles of video technology and independent video production through a cooperative, hands-on approach utilizing small format video (Mini DV). Emphasizes video as a critical intervention in social and visual arts contexts. Prerequisites: two MCM core courses or equivalent. Application required. Application is available in the MCM office or from http://www.brown.edu/Departments/MCM/. Students must bring a completed application to the first class to be considered for admission.

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
the subversive, exploitative, and redemptive potential of cinematic affect and representations of intimacy on film. Enrollment limited to 20 undergraduates. Prerequisite: MCM 0100, 0150, 0230, 0240, 0250, 0260, or 1110. Students MUST register for a filming/screening, and a lecture section.

Fall MCM0900Y S01 15589 TTh 1:00-2:20(10) (J. Guilford)

0900Z Breaking Up the Cinematic Couple

Falling out of love, breaking up, or just remaining miserable with the one you're with: are these the inevitable ends of the romantic couple? Films by major auteurs will lead us through an investigation of coupleings and de-couplings, distorted relationships and deformed loves. Both the films themselves and the critical reading will launch a critique of love and coupling, and will offer hints of alternatives. Films by Hitchcock, Bergman, Cronenberg, Cassavetes, Michel Gondry and others; readings from Cavell, Beauvoir, Kierkegaard, Edelman, Bersani, Adam Phillips and others. Enrollment limited to 20 undergraduates. Prerequisite: MCM 0100, 0150, 0230, 0240, 0250, 0260, or 1110. Students MUST register for a filming/screening, and a lecture section.

Spr MCM0900Z S01 25401 TTh 10:30-11:50(09) (J. Powell)

0901A Unruly Crossings: Queerness, Race and Globalization

What happens to queerness when race are the moves? What are the normative sexual and gendered assumptions underlying discourses of race, immigration and diaspora? How do border-crossing queer migrants negotiate implicit forms of control and the global-local divide? How have queerness and globalization impacted each other? These are some of the key questions that this seminar will address while examining theoretical debates, films and literature at the intersection of queerness, migration and transnational studies. Readings from migration studies, queer theory, critical race theory, anthropology and psychoanalysis. Films and literature from the African, Caribbean, Cuban and South/Asian diasporas in the global north. Enrollment limited to 20 undergraduates. Prerequisite: MCM 0100, 0150, 0230, 0240, 0250, 0260, or 1110. Students MUST register for a filming/screening, and a lecture section. DVPS

Spr MCM0901A S01 25404 TTh 1:00-2:20(10) (A. Maitra)

0901B Bad in a Good Way: The Art of Failure

Examining the politics of moral, aesthetic, and taste judgments that maintain the strict divide between "good" and "bad" in culture, this course will survey an array of cultural sites—from avant-garde art to experimental theater to pop music to so-called "trash TV"—that threaten accepted notions of total mastery, good taste, and proper decorum. Emphasizing the important impact that emerging disciplines such as queer theory and performance studies have had on visual culture, we will consider the relationship of such an "anti-aesthetic" archive (representing such performative strategies as kitsch, camp, and parody) to the turn to negativity in contemporary theory. Enrollment limited to 20 undergraduates. Prerequisite: MCM 0100, 0150, 0230, 0240, 0250, 0260, or 1110. Students MUST register for a filming/screening, and a lecture section. DVPS

Fall MCM0901B S01 15592 TTh 2:30-3:50(11) (A. Fisher)

(For Undergraduates and Graduates)

1200 Special Topics in Modern Culture and Media

Topics vary from year to year and instructor to instructor. In each section, enrollment is limited to 50. Written permission given after the first meeting. Prerequisite: one previous Modern Culture and Media course.

1200G Cinema and Stardom: Image/Industry/Fantasy

This course focuses on the role of the star within the "machinery" of Hollywood: how stars function in the film industry, within cinematic and extra-cinematic texts, and at the level of individual fantasy and desire. The paradoxes posed by stars—represented as like yet unlike us, public yet privately known, commodities yet (super)human—suggest complex formations and implications of the star system. We will read film theories and histories and investigate films in which star images are foregrounded to explore these issues. Enrollment limited to 50 undergraduates. Prerequisite: MCM 0100, 0150, 0230, 0240, 0260, or 1110, or instructor permission. Students MUST register for the lecture section and the screening.

Spr MCM1200G S01 25406 TTh 2:30-3:50(11) (L. Joyrich)

1201K Queer Relations: Aesthetics and Sexuality (ENGL 1900R)

Interested students must register for ENGL 1900R S01 (CRN 21824).

1201N Advanced Written and Oral French (FREN 1510)

Interested students must register for FREN 1510 S01 (CRN 10714 for fall 2010; CRN 20561 for spring 2011).

1201O Global Media/Global War

The 20th Century has been called the age of total war. Alongside the globalized military conflicts of the past 100 years is a corresponding globalization of visual media technologies. This course is a study of the links between the technologies, strategies, tactics and technologies of the military and those of various media industries. Topics include "target markets"; flight simulators; Google Earth; "the logistics of military perception;" the bombing of television and radio stations in Serbia and Iraq; the global presence of U.S. military bases and their role in the Americanization of global culture; and Michael Bay's Pentagon contracts. Prerequisite: MCM 0100, 0150, 0230, 0240, 0250, 0260, or 1110. Enrollment limited to 50. Students MUST register for a filming/screening, and a lecture section.

Fall MCM1201O S01 15613 TTh 2:30-3:50(11) (S. Groening)

1201P Freedom in Africana Political Thought (AFRI 1020B)

Interested students must register for AFRI 1020B S01 (CRN 15850).

1201Q German Cinema and Colonial Fantasy After the End of Colonialism

Pending Approval. This course approaches colonialism and orientalism in cinema focusing on German colonial fantasies—but from a transnational perspective informed by postcolonial theory, with comparative examples from France and Britain.Positing India as key site of the German cultural imagination, we will start with three film versions of the 1919 von Harbou novel "The Indian Tomb," made by distinguished directors in 1921, 1938, and 1959, about a German architect in India to build a tomb rivaling the Taj Mahal. Our discussion will extend to post-war work concerning Africa, from Leni Riefenstahl's photography and documentaries to Caroline Link's 2001 film "Nirgendwo in Afrika". Prerequisite: MCM 0100, 0150, 0230, 0240, 0250, 0260, or 1110. Enrollment limited to 50 undergraduates. Students MUST register for a filming/screening, and a lecture section.

Spr MCM1201Q S01 25850 TTh 10:30-11:50(09)

1500 Senior Seminars in Modern Culture and Media

Preference given to seniors in any of the MCM concentrations. In each section, enrollment is limited to 20. Written permission will be given after the first meeting. Prerequisite: two Modern Culture and Media courses.

1501K Seeing Queerly: Queer Theory, Film, Video

While cinema has typically circumscribed vision along (hetero)sexually normative lines, can film also empower viewers to see "queerly"? How do we, as sexual subjects (gay and straight), "look" in the cinema, in both senses of the word? How have sexual desires been portrayed across film history, and how might audiences wield the look, appropriating or creating imagery with which to (re)formulate subjectivity and sexuality? This course addresses such questions as it considers both "mainstream" and "alternative" productions. Enrollment limited to 20 juniors, seniors and graduate students. Prerequisite: MCM
Art cinema is associated with directors who achieved international prominence after World War II, with unconventional narrative films that were understood as expressions of original artistic subjectivities and film movements like the French New Wave (e.g., Antonioni, Bergman, Fellini, Godard, Resnais, and many others). Art cinema defined how many imagined non-Hollywood cinema in a global context, but was neither avant-garde nor necessarily political. Its legacy persists to the present, for example, in the reception of recent Iranian cinema and New Taiwanese cinema. We will study its aesthetic and textual strategies, its significance in global film history, and its theoretical implications. Enrollment limited to 20 juniors, seniors, and graduate students. Prerequisite: MCM 0100, 0150, 0230, 0240, 0250, 0260, or 1110. Students MUST register for a filming/screening, and a lecture section.

Fall MCM1502Z S01 25410 F 2:00-4:20(07) (P. Rosen)

1503A The Ethics of Romanticism (ENGL 1560Y)
Interested students must register for ENGL 1560Y S01 (CRN 23516).

1503B Jane Austen and George Eliot (ENGL 1560A)
Interested students must register for ENGL 1560A S01 (CRN 25169).

1503C "Terrible Beauty": Literature and the Terrorist Imaginary (ENGL 1760I)
Interested students must register for ENGL 1760I S01 (CRN 21227).

1700 Seminars in Production
Topics vary from year to year and instructor to instructor. In each section, enrollment is limited to 20. Written permission given after the first meeting.

1700B Approaches to Narrative
A production seminar for intermediate to advanced students in film and/or video production. Students complete a substantial media project in the course of the semester. Class meetings will focus on close readings and critical feedback of students’ work during all phases of production. Texts related to narrative theory and production will be discussed. Screenings of exemplary works will supplement the class. Class members should have completed at least two time-based media classes. Students are expected to be competent technically. An application will be completed during the first class session and the final class list will be determined after this meeting, with permission of the instructor. Enrollment limited to 20. S/NC Students MUST register for a filming/screening, and a lecture section.

Fall MCM1700B S01 15601 W 2:00-4:50(07) (L. Thornton)

1700D Reframing Documentary Production: Concepts and Questions
An advanced seminar for students of video and/or film production. Focuses on the critical discussion and production of documentary. A major project (10-20 minutes) and in-class presentations of work-in-progress required. Readings on the theory and practice of the form and selective screenings augment the presentation of student work. Application required. Application is available in the MCM office or from http://www.brown.edu/Departments/MCM/. Students must bring a completed application to the first class to be considered for admission. Class list will be posted 2 days after the first class meeting. Enrollment limited to 20. Instructor’s permission required. S/NC. Students MUST register for a filming/screening, and a lecture section.

Fall MCM1700D S01 11462 W 10:30-1:50(06) (A. Cokes)

1700M Techniques of Surveillance
In the decades since George Orwell wrote 1984, Big Brother has evolved from a menacing specter of government power into a form of entertainment—a reality TV show that makes a game of the camera’s watchful eye. Yet from NSA wiretapping to Facebook, our images and words are relentlessly tracked and profiled. This production seminar investigates surveillance as an object of cultural fascination and as a means of production in cinema, television, social software, and media art. Students give presentations and produce media art projects. Readings include Michel Foucault, Gilles Deleuze, and Laura Mulvey. Enrollment limited to 20. S/NC
1700N Open Source Culture
Where do we draw the line between sampling and stealing? What would it mean to call a urinal a work of art? This production seminar explores the tension between artistic appropriation and intellectual property law, considering open source software as a model for cultural production. We will trace a history of open source culture from Cubist collage and the Readymades of Marcel Duchamp through Pop art and found footage film to Hip Hop and movie trailer mashups. Students give presentations and produce media art projects. Readings include Rosalind Krauss, Nicholas Bourriaud, and Paul D. Miller aka DJ Spooky. Enrollment limited to 20. S/NC

1700R Curating Contemporary Art
It is sometimes said in contemporary art circles that curators are the new artists. Curating involves a wide range of activities, including research, selection, commissioning, collaboration with artists, presentation, interpretation, and critical writing. This production seminar considers curatorial practice as a form of cultural production, paying particular attention to questions of audience, ethical responsibility, and institutional context. Students give presentations, develop exhibition proposals, curate online exhibitions, and collaborate on gallery exhibitions, screenings, performance art presentations, or public art programs. Visiting curators present case-studies on recent projects. Readings include Pierre Bourdieu, Douglas Crimp, and Rirkrit Tiravanija. Enrollment limited to 20. S/NC

1700S Narrative and Immersion
A production course examining the potentials for engagement in new media installations. The course draws on techniques of narrative to establish engagement in immersive environments. Students will be introduced to cinematic concepts, interactive technologies, multi-channel video and surround sound environments. Classes meetings will consist of viewing and analysis of exemplary work, discussion of readings, and critiques of student projects. An additional 1-hour technical workshop will be devoted to learning Jitter. Class members should have completed advanced work in film/video, digital sound, and/or creative writing. Open to upper-level undergraduates only. S/NC Enrollment limited to 14. 

1970 Directed Research: Modern Culture and Media
Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor's permission required. Fall; Spr

1990 Honors Thesis/Project in Modern Culture and Media
Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Eighth semester students only. Instructor's permission required. Fall; Spr

2100B Criticism and Culture in Marxist Theory
Major texts and arguments in 20th century Western Marxist cultural theory, from Lukács through the present. Focus on problems in the conception and reading of culture and cultural texts. Where appropriate, consideration of interaction with other major theoretical frameworks (e.g., aesthetics, phenomenology, semiotics, psychoanalysis, feminism, postcolonial criticism, globalization theory, etc.). Enrollment limited to 20 graduate students. Permission required for undergraduates only.

2120 Studies in Media Theory
Enrollment Limited to 20.

2120D Derrida and Telecommunications
Derrida famously proclaimed that writing preceded speech--rendering all communications a form of writing--but he also argued that the history of psychoanalysis would have been different if Freud had used e-mail instead of snail-mail. Tracing Derrida's thought re: telecommunications from Grammatology to Writing Machines, as well as engaging his interlocutors (Samuel Weber, Avital Ronell, etc.), this course examines the importance of medium-specificity to poststructuralism. Enrollment limited to 20 graduate students. Permission required for undergraduates only. Students MUST register for a filming/screening, and a lecture section.

2300C After Postmodernism: New Fictional Modes (ENGL 2760X)
Interested students must register for ENGL 2760X S01 (CRN 25846).

2300D Historicism/Photographic Media: From Krauss and Benjamin to the DEFA Documentary (GRMN 2660H)
Interested students must register for GRMN 2660H S01 (CRN 25463).

2310 Studies in Textual Formations
Enrollment Limited to 20.

2310H Television Realities
How does television bring "real" events to us? How do we define or know what's "real"? What kinds of "realities" exist on television, and how do they operate (in relationship to one another, to TV fantasy, to social structures, and to our everyday lives)? This course will consider not only some specific "reality genres" (news, catastrophe coverage, "live" and "historical" programs, "surveillance programming," documentary and docudrama, talk and game shows, reality series and "docu-soaps") but the representational modes that define the reality of commercial television as a whole. Enrollment limited to 20 graduate students. Permission required for undergraduates only. Students MUST register for a filming/screening, and a lecture section.

2500 Studies in the History of Media
Enrollment Limited to 20.

2500D Archaeologies of the Projected Image
Analysis of the history and theory of projected images from the magic lantern to IMAX. We will examine theories of scale, architecture, and perspective in order to consider the changing size of moving images, from the flip book to the cinema screen to the cell phone. We will also consider theories of mass culture, aesthetic technologies, the sublime, and public art. Readings in Jonathan Crary, Siegfried Kracauer, Sigmund Freud, Walter Benjamin, Henri Lefebvre, Jean-François Lyotard, Friedrich Kittler, Laurent Manion, Erkki Huhtamo, and others. Enrollment limited to 20 graduate students. Permission required for undergraduates only. Students MUST register for a filming/screening, and a lecture section.
Music

(Primarily for Undergraduates)

0010 Introduction to Western Music
A study a thousand years of music of Europe and America through CDs, DVDs, and YouTube. We'll explore how individuals, institutions, and societies create music, use it, experience it, pay for it, and control it. We'll discuss music and time, music and politics, music and identity. Still, the heart of the course is listening to great music, and learning how it works.

Spr MUSC0010 S01 25427 MWF 1:00-1:50(06) (D. Josephson)

0021 First Year Seminars
A seminar designed for students interested in music who are in their first year at Brown. No special musical background is required. All students welcome. In order to preserve an intimate environment for dialogue, and to promote active participation of all students, enrollment will be limited to 20 first year students. FYS

0021B Reading Jazz
This course will explore the musical aesthetics of jazz in texts about its world. Students will listen to music and read poetry, fiction, autobiography and criticism to investigate techniques (including improvisation, rhythm, timbre and articulation), which authors such as Langston Hughes, Ralph Ellison, Charles Mingus, Stanley Crouch and Jack Kerouac employed to describe and support a creative community. Enrollment limited to 20 first year students. FYS DVP'S LILE

Fall MUSC0021B S01 15617 Th 4:00-6:20(13) (M. McGarrell)

0021C Bach
The course will explore the life and work of J. S. Bach, with an emphasis on his place in the Baroque era, and his influence on later composers. Topics will include issues of performance practice, surviving source material, and performance issues in our own time. Students will listen to music, live and recorded, compare several biographies, and explore the world of Bach criticism. Enrollment limited to 20 first year students. FYS

Fall MUSC0021C S01 14235 TTh 9:00-10:20(08) (L. Jodry)

0030 History of Jazz
The development of jazz from its roots to the present. Focuses on the study of style types (including New Orleans style, early piano jazz, swing, bebop, and cool jazz) and their major instrumental and vocal exponents. Jazz as a social phenomenon is studied in relation to contextual aspects of folk, popular, and art music traditions in the U.S. Students MUST register for a lab, and a lecture section.

Spr MUSC0030 S01 25429 TTh 10:30-11:50(09) (M. McGarrell)

0040 World Music Cultures (Africa, America, Europe, Oceania)
Pending Approval A survey of a variety of musical styles from Africa, the Americas, Europe, and Oceania outside the Western art music tradition. Introduces these musics in their historical, social, and cultural context, in an attempt to understand them in their own theoretical systems and aesthetic frameworks.

Fall MUSC0040 S01 15618 MWF 1:00-1:50(06) (Smulyan)

0041 World Music Cultures (Middle East and Asia)
Introductory survey of several of the world's musical traditions, with an emphasis on East, South, and Southeast Asia. Expands powers of musical appreciation through lectures, guided listening, and active participation in music-making. Focuses on traditional music and its relations to dance and theatre, and to its social, religious, and historical contexts, but also includes popular music and the effects of modernization. No prerequisites.

Spr MUSC0041 S01 25431 TTh 2:30-3:50(11) (M. Perlman)

0051 Mozart
Mozart's life and music from soup to nuts. While we'll read some of the words of his contemporaries, the heart of the course is a study of his glorious music, from intimate private piano pieces to public operas and ending with the Requiem. A rudimentary ability to read music is necessary. We'll offer an optional listening section.

Fall MUSC0051 S01 15619 TTh 2:30-3:50(11) (D. Josephson)

0062 Musical Youth Cultures
A cross-cultural examination of music-oriented youth subcultures. Topics will include youth-produced vs. youth-consumed music, club culture and associated media technologies, online communities, activist musical collectives, student organizations, and concepts of the mainstream vs. the underground. Students will undertake ethnographic projects and will use web-based multimedia to present their findings. No prerequisites.

Fall MUSC0062 S01 15620 TTh 9:00-10:20(08)

0200 Computers and Music
An introduction to the field of computer music, focusing on the use of electronics and computers in music and performance. Investigates basic acoustics, perception of sound, the history of music technology, and musical applications. Extensive listening assignments illustrate the impact of technology on popular and experimental genres. No prerequisites, though some experience with computers and some knowledge of music is very helpful. Significant hands-on experience with computer music systems. Enrollment limited to 50 students. Permission will be granted based upon a questionnaire given in the first class. LILE

Fall MUSC0200 S01 15910 TTh 10:30-11:50(09) (T. Winkler)

0220 Electroacoustic Improv Ensemble
An ensemble devoted to free improvisation with new media. Experimental approaches to sound and focused listening techniques are explored with acoustic instruments, live electronics, real-time video, together with networked improvisation, and more. Enrollment limited to 12 students; by audition. Instructor’s permission required.

Fall MUSC0220 S01 11663 W 7:00-9:50 PM(18) (J. Rovan)

0221 Electroacoustic Improv Ensemble
An ensemble devoted to free improvisation with new media. Experimental approaches to sound and focused listening techniques are explored with acoustic instruments, live electronics, real-time video, together with networked improvisation, and more. Enrollment limited to 12 students; by audition. Instructor’s permission required.

Spr MUSC0221 S01 22895 W 7:00-9:50 PM(18) (J. Rovan)

0400 Introduction to Music Theory
An introduction to musical terms, elements, and techniques, including notation, intervals, scales and modes, triads and seventh chords,

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
modulation, melody writing and harmonization, analysis, and composition. Ear-training and sight-singing are included. For students with some musical training.

Sum MUSC0400 S01 60305 MTWTh 1:00-3:00 (A. Cole)

Spr MUSC0400 S01 25432 MWF 10:00-10:50(03) (L. Jodry)

0450 On Songs and Songwriting
A study of the art and craft of song from the perspective of the listener, the critic, the writer, and the performer. Students will examine a large range of music, from the middle ages to the present. Topics to include: song and memory; voice and literary registers; declamation and delivery; melody and melodrama; rhyme and rhythm; phrasing and form. Emphasis will be on both criticism and creation, as students perfect their ear, hone their analytical skills, and try their hand at writing music. Some prior knowledge of music desirable. Course will feature at least one visit by a living songwriter, and will culminate in a performance and a recording of original songs by students enrolled in the class. Enrollment by audition and limited to 25. Instructor permission required. Students MUST register for a lab, and a lecture section. LILE

Spr MUSC0450 S01 25433 TTh 1:00-2:20(10) (J. Rovan)

0510 Harmonic Convergence: Music's Intersection with Science, Mathematics, History and Literature
An investigation into music's relationship to science, mathematics, history and literature. Students will examine connections between music and the brain; parallels between Bach's music and Gödel's Theorem, Kepler's advances in mathematics and astronomy, and modern DNA research; the creative process of music composition; and the application of musical form to literature. They will read fiction in which music occupies an essential role, studying compositions by Mozart, Beethoven, Shostakovich and Schoenberg associated with those novels, plus related works by Debussy, Schumann, Brahms, Wolf, Hindemith and others. Principal readings are by Sachs (Musicophilia), Levitin (The World in Six Songs), Hofstadter (Gödel, Escher, Bach), Rothstein (Emblems of Mind), Powers (The Gold Bug Variations), Mörke (Mozart's Journey to Prague), Burgess (A Clockwork Orange, Honey for the Bears) and Mann (Doctor Faustus). Although musical ability is not a prerequisite for this course, students with musical backgrounds will be encouraged to perform relevant works in class. Enrollment limited to 16.

Sum MUSC0510 S01 60306 MWF 9:00-11:40 (P. Phillips)

0550 Theory of Tonal Music
For students knowledge of the keyboard and of the rudiments of music, including scales, intervals, and key signatures. Prerequisite to the music concentration. Intensive study of tonal harmony, voice leading; analysis, ear training, sight-singing, keyboard exercises. Students interested in MUSC 0550 must take a placement test administered during the first regular class meeting. Instructor permission required. MUSC 0550 is prerequisite to MUSC 0560. Students MUST register for a lab, and a lecture section.

Fall MUSC0550 S01 11666 TTh 1:00-2:20(10) (J. Baker)

Fall MUSC0550 S02 11667 TTh 1:00-2:20(10) (M. Steinbach)

0560 Theory of Tonal Music
See Theory Of Tonal Music (MUSC 0550) for course description. Prerequisite: MUSC 0550 or permission of the instructor. Students MUST register for a lab, and a lecture section.

Spr MUSC0560 S01 21271 TTh 1:00-2:20(10) (P. Phillips)

Spr MUSC0560 S02 21272 TTh 1:00-2:20(10) (M. Steinbach)

0600 Chorus
Half credit each semester. A practical study of choral literature, techniques, and performance practice from Gregorian chant to the present, offered through rehearsals, sectionals, and performance.

Enrollment is by audition, based on voice quality, experience, and music-reading ability. Instructor permission required.

Fall MUSC0600 S01 11680 MW 6:30-8:20 PM(18) (L. Jodry)

0601 Chorus
See Chorus (MUSC 0600) for course description.

Spr MUSC0601 S01 21275 MW 6:30-8:20 PM(18) (L. Jodry)

0610 Orchestra
Half credit each semester. A practical study of the orchestra repertory from Bach to the present, offered through coaching, rehearsals, and performances. Enrollment is by audition. Students will be notified of audition results within the first 10 days of the semester. Restricted to skilled instrumentalists. May be repeated for credit.

Fall MUSC0610 S01 11682 TTh 7:15-9:45 PM(12) (P. Phillips)

0611 Orchestra
Half credit each semester. A practical study of the orchestra repertory from Bach to the present, offered through coaching, rehearsals, and performances. Enrollment is by audition. Students will be notified of audition results within the first 10 days of the semester. Restricted to skilled instrumentalists. May be repeated for credit.

Spr MUSC0611 S01 21276 TTh 7:15-9:45 PM(12) (P. Phillips)

0620 Wind Symphony
Half credit each semester. A practical study of the wind band repertory from Mozart to the present, offered through coaching, rehearsals, and performances. Enrollment is by audition. Restricted to skilled instrumentalists. Instructor permission required.

Fall MUSC0620 S01 11685 M 6:00-7:20 & W 6:00-8:20 PM(18) (M. McGarrell)

0621 Wind Symphony
See Wind Symphony (MUSC 0620) for course description.

Spr MUSC0621 S01 21277 M 6:00-7:20 & W 6:00-8:20 PM(18) (M. McGarrell)

0630 Jazz Band
Half credit each semester. A practical study of jazz from the 1920s to the present through coaching, rehearsals, and performance. Seminars on arranging, ear training, and improvisation are conducted for interested students but the focus is on performance. Enrollment is by audition. Restricted to skilled instrumentalists and vocalists. Instructor permission required.

Fall MUSC0630 S01 11688 M 7:30-8:50 PM & Th 6:10-7:20(12) (M. McGarrell)

0631 Jazz Band
See Jazz Band (MUSC 0630) for course description.

Spr MUSC0631 S01 21278 M 7:30-8:50 PM & Th 6:10-7:20(12) (M. McGarrell)

0640 Ghanaian Drumming and Dancing Ensemble
A dynamic introductory course on drumming, dancing, and singing of Ghana and the diaspora. Students learn to perform diverse types of African music, including Ewe, Akan, Ga, and Dagomba pieces on drums, bells, and shakers. No prerequisites. May be repeated for credit. Enrollment limited to 15. Instructor permission required.

Fall MUSC0640 S01 11693 W 5:00-7:20(18) (M. Obeng)

0641 Ghanaian Drumming and Dancing Ensemble
A dynamic introductory course on drumming, dancing, and singing of Ghana and the diaspora. Students learn to perform diverse types of

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
0650 Javanese Gamelan
Half credit each semester. Instruction, rehearsals, and performances in the gamelan music of Java, on instruments owned by the department. No prerequisites. Enrollment limited to 18 students.
Fall MUSC0650 S01 11699 T 6:00-8:50 PM(12) (M. Perlman)

0651 Javanese Gamelan
See Javanese Gamelan, MUSC0650, for course description. Enrollment limited to 18 students.
Spr MUSC0651 S01 21280 T 6:00-8:50 PM(12) (M. Perlman)

0660 Sacred Harp/Shape-Note Singing
Half credit each semester. Students will learn the traditional performance practices associated with the shape-note tunebook *The Sacred Harp*, a compilation of American vernacular hymnody first published in Georgia in 1844. This is an unaccompanied, four-part, participatory singing tradition. Ability to read Western music notation helpful but not required. No concert performances. No prerequisites. Repeatable for credit. S/NC.
Fall MUSC0660 S01 13226 Th 5:00-6:50(13)

0661 Sacred Harp/Shape-Note Singing
Half credit each semester. Students will learn the traditional performance practices associated with the shape-note tunebook *The Sacred Harp*, a compilation of American vernacular hymnody first published in Georgia in 1844. This is an unaccompanied, four-part, participatory singing tradition. Ability to read Western music notation helpful but not required. No concert performances. No prerequisites. Repeatable for credit. S/NC.
Spr MUSC0661 S01 22597 Th 5:00-6:50(16)

0670 Old-Time String Band
Half course each semester. Instruction and ensemble playing. Music taught by ear. American (southern Appalachian Mountain) traditional music on violin (fiddle), 5-string banjo, mandolin, and guitar. Enrollment limited to 20 students.
Fall MUSC0670 S01 11701 T 7:00-8:50 PM(12)

0671 Old-Time String Band
See Old-Time String Band (MUSC 0670) for course description. Enrollment limited to 20 students.
Spr MUSC0671 S01 21281 T 7:00-8:50 PM(12) (J. Titon)

0680 Chamber Music Performance
Half credit each semester. The practical study of the literature of chamber music through participation in a small ensemble. Regular rehearsals, coaching by department staff, and performances are required. Enrollment is by audition. Students will be notified of audition results within the first 10 days of the semester. Restricted to skilled instrumentalists. May be repeated for credit.
Fall MUSC0680 S01 11702 ‘To Be Arranged’ (P. Phillips)

0681 Chamber Music Performance
Half credit each semester. The practical study of the literature of chamber music through participation in a small ensemble. Regular rehearsals, coaching by department staff, and performances are required. Enrollment is by audition. Students will be notified of audition results within the first 10 days of the semester. Restricted to skilled instrumentalists. May be repeated for credit.
Spr MUSC0681 S01 21282 ‘To Be Arranged’ (P. Phillips)

0810 Applied Music Program: Instruction in Vocal or Instrumental Music
Half credit each semester. Restricted to skilled musicians. Openings are limited. Enrollment and re-enrollment is by audition and jury. Lessons are given by consultants to the Applied Music Program. A fee is charged for enrollment. Copies of the Applied Music Program Guidelines giving detailed information are available online at www.brown.edu/music. May be repeated up to four times for credit. Instructor’s permission required.
Fall; Spr

0820 Baroque and Classic Music
A history of music in European society from Monteverdi’s opera *Orfeo* to Beethoven’s Ninth, studied through texts, scores, CDs, DVDs, and YouTube. We’ll spend two-thirds of our time on five composers: Bach, Handel, Haydn, Mozart, and Beethoven. Prerequisite: MUSC0550 or equivalent.
Fall MUSC0820 S01 15623 TTh 10:30-11:50(09) (D. Josephson)

0830 Romantic and Modern Music
A history of European and American art music from Beethoven’s *Ninth Symphony* to the Postmodernists. Prerequisite: MUSC 0550 or permission of instructor.
Spr MUSC0830 S01 25435 TTh 9:00-10:20(08)

1010 Advanced Musicianship I
Training in advanced musicianship skills relevant to Western art music from the sixteenth Century to the present, including sight singing, ear training, score reading, keyboard harmony, improvisation, and musical transcription. Prerequisite: MUSC 0560 with a grade of B, or permission of instructor.
Fall MUSC1010 S01 11715 MWF 2:00-2:50(07) (A. Cole)

1011 Advanced Musicianship II
Continuation of MUSC 1010. Prerequisite: MUSC 1010 or permission of the instructor.
Spr MUSC1011 S01 21289 MWF 2:00-2:50(07) (A. Cole)

1030 Tonal Counterpoint
The contrapuntal techniques of the 18th century with emphasis on music of Bach. Written exercises in and analysis of several genres including fugue. Prerequisite: MUSC 0560 or permission of instructor.
Fall MUSC1030 S01 14240 TTh 1:00-2:20(10) (G. Shapiro)

1050 Advanced Music Theory II
A study of theories of Western art music since Debussy. Exercises in analysis and composition, focusing on works of Debussy, Stravinsky, Schoenberg, Webern, Bartok and Ives. Students give presentations on selected later composers. Prerequisite: MU 0560 with grade of B, or the equivalent.
Spr MUSC1050 S01 25436 MWF 11:00-11:50(04) (J. Baker)

1100 Introduction to Composition
Composition students begin by using technical resources developed in their previous theoretical studies. Analysis and discussion of contemporary music provides examples of alternatives to traditional compositional strategies, which students integrate into later assignments. A study of contemporary notational practices and

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
computer-based manuscripting and sequencing is also included. Prerequisite: MUSC 0560 or permission of the instructor. Enrollment limited to 20 students.

Fall MUSC1100 S01 14241 Th 4:00-6:20(13) (G. Shapiro)

1110 Seminar in Composition
Finding a personal voice as a composer. Assignments develop familiarity with large forms and increasingly complex structures. Analyses of contemporary compositions elucidate issues of aesthetic and political stance inherent in compositional activity and teach technical facility and range of expression. Problems of rehearsal and performance for new music are considered. Prerequisite: MUSC 0560 and 1100, or permission of the instructor. Enrollment limited to 20 students.

Spr MUSC1110 S01 24160 Th 4:00-6:20(16) (G. Shapiro)

1200 Seminar in Electronic Music: Recording Studio as Compositional Tool
A study of advanced studio techniques taught in parallel with topics in psychoacoustics. Students will create original studio work while developing listening and technical skills for audio production. Technical topics include recording, signal processing and mixing software, microphone technique, and live sound engineering. Preference will be given to students who have completed MUSC 0200. Students will be evaluated for potential future work in the MEME program (Multimedia and Electronic Music Experiments) and past participation in MEME. Admission is determined by an entrance questionnaire completed at the first class meeting. Prerequisite: MUSC 0200

Spr MUSC1200 S01 25759 TTh 10:30-11:50(09) (J. Moses)

1210 Seminar in Electronic Music: Real-Time Systems
Seminar in Electronic Music is a study of music employing electronic media, including real-time digital signal processing, multimedia, and live performance. Technical aspects of the course focus on programming using Max/MSP to create interactive projects and algorithmic compositions. Permission of instructor required. Interested students must come to the first class. Preference will be given to students who have completed MUSC 0200. Students MUST register for a lab, and a lecture section. Instructor’s permission required.

Fall MUSC1210 S01 14242 TTH 10:30-11:50(09) (J. Rovan)

1240 Topics in New Media Theory and Production
Topics may vary from year to year. Enrollment limited to 14 students.

1240A Sonic Psychogeography
Psychogeography loosely describes a cluster of art practices that explore the effects of the geographical environment on the emotions and behaviors of individuals. How can sound, uniquely powerful in triggering memory and connecting us to the present moment, be used in psychogeographical work? Traveling, mapping, walking, and otherwise getting around both urban and rural landscapes will inspire class projects: audio collages, video works, headphone tours, interactive installations, public interventions. Come prepared to walk, to read, to listen, to look, and to make. Some experience with sound or video editing required. Permission will be granted based upon a questionnaire given in the first class. Enrollment limited to 14 students.

Spr MUSC1240A S01 25760 Th 1:00-4:50(10) (E. Biggs)

1240B Narrative and Immersion
A production course examining the potentials for engagement in new media installations. The course draws on techniques of narrative to establish engagement in immersive environments. Students will be introduced to cinematic concepts, interactive technologies, multi-channel video and surround sound environments. Class meetings will consist of viewing and analyzing exemplary work, discussion of readings, and critiques of student projects. An additional 1-hour technical workshop will be devoted to learning Jitter. Class members should have completed advanced work in film/video, digital sound, and/or creative writing. Open to upper-level undergraduate students and graduate students. The final class list will be determined after the first class meeting, by permission of instructor. Enrollment limited to 14.

Spr MUSC1240B S01 25761 W 1:00-4:50(06) (T. Winkler)

1240C Chamber Music/Video
Pending Approval. Focuses on the creation of multimedia chamber performances incorporating live music and video. The class will explore issues such as instrumentation and color, structural relationships, the dynamic between performers and video, and the practicalities of performance. Class meetings will consisting of viewing and analyzing exemplary chamber video works and workshopping collaborative student projects, and the course will culminate with a performance of student projects at the end of the semester. Open to upper-level undergraduate students and graduate students with experience in composition, performance and/or video. The final class list will be determined after the first class meeting, by permission of instructor. Enrollment limited to 14.

Fall MUSC1240C S01 15911 M 6:30-9:20 PM(18) (E. Biggs)

1250 Sound Design
This production seminar is a study of techniques and aesthetics used to create sonic environments and effects that enhance a variety of media including video, radio and audio art, new media, theater, and installation art. Technical topics include audio production in multi-channel formats, advanced audio editing, mixing and synthesis techniques, and audio system design. Enrollment limited to 12 students. Preference will be given to students who have completed MUSC 1200. Others will be evaluated for potential future work in the MEME program (Multimedia and Electronic Music Experiments) and past participation in MEME. Admission is determined by an entrance questionnaire completed at the first class meeting. Prereq: MUSC 1200. LILE

Fall MUSC1250 S01 15912 TTh 2:30-3:50(11) (J. Moses)

1640 Seminar in Opera Studies
An advanced seminar dealing with critical, historical and aesthetic questions surrounding opera as a genre. Topics which will vary from semester to semester, include: the social meaning of opera; staging and its vicissitudes; opera criticism; music as spectacle; voices and vocalists; opera on film. Prerequisites will vary according to the instructor. Enrollment limited to 20 students.

1640D Opera: History, Theory, Practice
This seminar will analyze the history, theory, and practice of opera in its textual (words and music), and performative (in the theater and in society) dimensions. We will focus on three paradigmatic works: Mozart's Don Giovanni, Verdi's Aida, and Wagner's Die Walküre. The seminar's work on Die Walküre will coincide with the preparation of a new production, to be premiered at the Teatro alla Scala, Milan, on December 7, 2010. Students will have the chance to contribute ideas to the production team. In addition, each student will select a 20th or 21st-century work for individual research and presentation to the group. Enrollment limited to 20.

Fall MUSC1640D S01 15913 M 3:00-5:20(13) (M. Steinberg)

1661 Death and Dying

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
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A study of the cultural treatment of death in Europe and America from the French Revolution to the Vietnam War. Using CDs, DVDs, and YouTube, we’ll listen to operas, songs, Requiems and oratorios, and instrumental and orchestral works, from Mozart's Don Giovanni to Crumb's Black Angels. We'll also read short stories, novels, and poems; watch war films; and study art, architecture, cemetery sculpture and design, mourning rituals, and state funerals.

Spr MUSC1661 S01 25439 M 3:00-5:20 PM(13) (D. Josephson)

1680 Musical Performance: Theatricality, Body, and Spectacle
Explores the visual and theatrical dimensions of music performance--both recent and historical--through the analysis of live performances, video clips, and historical documents. Using the critical methods of performance studies, we seek to uncover those aspects of musical experience that have become transparent or normalized by their familiarity, and which are eluded by a traditional focus on music as "sound alone." We concentrate on five genres--rock, classical, pop, jazz, and experimental--and consider figures such as Arturo Toscanini, David Bowie, Jimi Hendrix, Louis Armstrong, Miles Davis, Pauline Oliveros, John Zorn, Diamanda Galás, Madonna and Michael Jackson. Enrollment limited to 24.

Fall MUSC1680 S01 15914 TTh 1:00-2:20 PM(10) (D. Gooley)

1810 Applied Music Program: Instruction in Vocal or Instrumental Music
Half credit each semester. Restricted to skilled musicians. Restricted to skilled musicians demonstrating mastery of an advanced repertory in their fields. Openings are limited. Enrollment and re-enrollment is by audition and jury. Lessons are given by consultants to the Applied Music Program. MUSC 0830, 0840 is prerequisite to this course. A fee is charged for enrollment. Copies of the Applied Music Program Guidelines giving detailed information are available online at www.brown.edu/music. Prerequisite: MUSC 0400, or MUSC 0550, MUSC 0560. Written permission required. May be repeated up to four times for credit. Instructor's permission required.

Fall; Spr

1900 Introduction to Ethnomusicology
The study of people making music. Ethnographic research and writing on musical practices; history of ethnomusicology; musical case studies from around the world highlighting such issues as authenticity, tradition, commercialism, amateurism, postcolonial politics, and the ethics of fieldwork.

Spr MUSC1900 S01 24165 TTh 2:30-3:50 PM(11) (J. Titon)

1920 Music and Modern Life
Examines topics related to the everyday use of music: the determinants of musical taste; music for emotional self-management (in the health club or Iraq War); "high" vs. "low" music; eclectic taste; popular music and the music industry; mp3blogs; new business models. Readings (in sociology, history, and cultural studies) and original field research by class members. Instructor permission required. Enrollment limited to 20.

Fall MUSC1920 S01 14548 M 3:00-5:20 PM(13) (M. Perlman)

1960 Advanced Ghanaian Drumming and Dancing Ensemble
Students with experience in African and related musical traditions perform drumming, dancing, and singing of Ghana and the diaspora. Focus on a more challenging repertoire with emphasis on multi-part, lead, and improvisational playing. Prerequisite: audition. May be repeatable for credit. Instructor permission required. Enrollment limited to 15 students.

Fall MUSC1960 S01 11745 W 7:30-9:50 PM(18) (M. Obeng)

1961 Advanced Ghanaian Drumming and Dancing Ensemble
Students with experience in African and related musical traditions perform drumming, dancing, and singing of Ghana and the diaspora.

Focus on a more challenging repertoire with emphasis on multi-part, lead, and improvisational playing. Prerequisite: audition. May be repeatable for credit. Instructor permission required. Enrollment limited to 15 students.

Spr MUSC1961 S01 21293 W 7:30-9:50 PM(18) (M. Obeng)

1970 Individual Independent Study
Directed undergraduate research for advanced students. Prerequisite: permission of the instructor. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor's permission required.

Fall, Spr

(Primarily for Graduates)

2000 History of Ethnomusicological Thought
A history about music outside the Western art music tradition. Three historical paradigms-comparative musicology, musical folklore, and ethnomusicology-and the search for a new approach to ethnomusicology in the postcolonial era. Prerequisite: MUSC 1900 or consent.

Spr MUSC2000 S01 25441 W 12:30-2:50 PM(07) (J. Titon)

2030 Modernizing Traditional Music
This course examines two types of modernization: changes in the sounds of traditional music, and changes in its social-ideational contexts. We examine general theories of modernity, and the association of modernity with the urban, rational, secular, mobile, and technologically advanced. We then inspect the processes of modernization at work in four case studies taken from four very different societies. Prerequisite: Graduate standing or written permission.

Spr MUSC2030 S01 25442 M 3:00-5:20 PM(13) (M. Perlman)

2070 Music and Identity
From 18th-century European nationalism to 20th-century American multiculturalism, people have used music to affirm their identities. Drawing on anthropological and sociological theory, we examine the variety of connections between music and identity in several case studies. We consider the possible contributions of music to cross-cultural understanding, and discuss the ethics of musical border-crossing.

Fall MUSC2070 S01 15626 W 3:00-5:20 PM(14) (M. Perlman)

2080 Seminar in Ethnomusicology
An intensive study of a single topic in ethnomusicology.

2080B Ethnography of Popular Music
This seminar explores ethnographic work on popular music, including scholarship rooted in ethnomusicology, sociology, and performance studies. We will discuss case studies from around the world and will compare contemporary ethnographic research with other approaches to popular music (e.g., Frankfurt School critical theory, Birmingham School cultural studies, and text-oriented popular music studies). Prerequisite: graduate standing or written permission.

Fall MUSC2080B S01 15915 T 4:00-6:20 PM(13)

2210 Digital Performance
A production seminar examining the artistic impact and creative potential of digital media in the context of live performance. Readings and analysis of work examine innovations in performance practice from dance, theatre, performance art and music. Collaborative assignments investigate video projection, sound design and interactive sensor technology, culminating in a final large-scale performance. Permission will be granted based upon a questionnaire given in the first class.

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
2220 Designing and Playing Alternative Controllers
This seminar will explore the science and aesthetics of designing alternate controllers for musical performance. Topics will include basic electronics and hardware prototyping, instrument construction, theories of gesture, human-computer interface issues, and the challenges of mapping sensor data to meaningful musical parameters. Previous experience with MaxMSP or other real-time programming required. Permission of instructor required. Students MUST register for a lab, and a lecture section.

Spr  MUSC2220  S01  24168  MF 3:30-4:50(13)  (J. Rovan)

2240 Composing and Improvising with Real-time Systems
This seminar will explore the use and creation of interactive computer music systems from the point of view of the performer/programmer. Using improvisation as a starting point, we will explore the aesthetics and philosophy of performance, designing real-time systems in MaxMSP that enhance the relation between action and event using network strategies.

Fall  MUSC2240  S01  15627  M 2:00-4:50(07)  (J. Rovan)

2280 Designing-Large-Scale Multimedia Projects
A production seminar designed for students working on a single, large project in Multimedia and/or Computer Music. The course covers planning and implementation strategies, with group critiques of proposals and works-in-progress. The class structure includes individual lessons for students working on a graduate or undergraduate thesis project. Permission will be granted based upon a questionnaire given in the first class.

Spr  MUSC2280  S01  25762  T 1:00-3:50(10)  (T. Winkler)

2300 The Seminar in History and Culture
2300A The Improviser's Art
Advanced seminar exploring improvisation from various perspectives: historical, anthropological, philosophical, ethical, and creative. We study improvisation in diverse musical traditions, in other arts, and in problem-solving contexts such as business, technology, and games. Discussion topics include individual vs. group improvisation, the status of "freedom" in creative processes, and the social and artistic functions of improvisation. Instructor permission required.

Fall  MUSC2300A  S01  15917  F 3:00-5:20(15)  (D. Gooley)

2970 Preliminary Examination Preparation
For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing for a preliminary examination.

Fall  MUSC2970  S01  11753  'To Be Arranged'
Spr  MUSC2970  S01  21295  'To Be Arranged'

2980 Reading and Research
Directed graduate research. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor’s permission required. Fall; Spr

2990 Thesis Preparation
For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing a thesis.

Fall  MUSC2990  S01  11755  'To Be Arranged'
Spr  MUSC2990  S01  21296  'To Be Arranged'

Neuroscience see BioMed-Neuroscience
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pornography and prostitution. Each of the four sections of the class will be devoted to one of these topics.

Spr PHIL0180 S01 25329 TTh 9:00-10:20(08) (K. Jarvis)

0190 Contemporary Moral Problems
An introduction to the practice of moral reasoning through consideration of issues of current moral controversy. We will address moral problems in the public sphere (famine relief, capital punishment, affirmative action) as well as the private sphere (abortion, sexuality, drugs). Emphasis is placed on identifying, evaluating, and constructing careful and well thought-out moral arguments. No prerequisites.

Spr PHIL0190 S01 23899 MWF 9:00-9:50(02) (J. Silverstein)

0210 Science, Perception and Reality
It is implausible that scientific discoveries could make us give up commonsensical beliefs. It is even less plausible that commonsense could make us reject established scientific theories. So when science and commonsense appear to clash, as they do over colors, solidity, mental content, values, and death, serious philosophical problems arise. We will investigate possible responses to these problems.

Spr PHIL0210 S01 25330 TTh 2:30-3:50(11) (D. Kutach)

0250 The Meaning of Life
This is an introductory course in ethics, with a focus on the question of what is the nature of the human good, or of a life lived well. Readings will be from classical sources (Aristotle, Epicurus, Kant, Nietzsche, Camus) as well as from contemporary authors. In investigating this question, the course will also introduce students to some of the main problems and positions in moral philosophy. Central concepts such as obligation, responsibility, pluralism, moral knowledge will be discussed, but in the larger context of what is the nature of the good life. No prior work in philosophy will be presupposed.

Fall PHIL0250 S01 15538 MWF 10:00-10:50(03) (C. Larmore)

0350 Ancient Philosophy
We will discuss the ethics, epistemology, and metaphysics of the principal figures in ancient philosophy from the Presocratics to Aristotle. Emphasis is given to understanding the problems the philosophers were trying to solve and to assessing the arguments for their various positions. Primary readings are from the original sources in translation.

Fall PHIL0350 S01 14601 MWF 11:00-11:50(04) (M. Gill)

0360 Early Modern Philosophy
An introduction to central themes in Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume, and Kant. Major topics include: reason, experience, and knowledge; substance and the nature of the world as it really is; induction, causation, and the origin of our ideas; skepticism, realism, and idealism. Connections are made with the scientific revolution of the 17th century.

Fall PHIL0360 S01 25331 MWF 11:00-11:50(04) (J. Broackes)

0500 Moral Philosophy
A systematic introduction to the main branches of moral theory, including questions about the nature of value and morality and how it might be known, general theories of what morality requires, and applications of moral theory to concrete moral controversies such as abortion, euthanasia, ethics in war, and obligation to help the needy.

Spr PHIL0500 S01 25332 MWF 12:00-12:50(05) (J. Brennan)

0540 Logic
An introduction to perhaps the most fundamental tool of rational thought: deductive logic. Course begins with basic sentential logic, then moves on to deduction, quantification, and prediction.

Spr PHIL0540 S01 13712 MWF 1:00-1:50(06) (D. Kutach)

0560 Political Philosophy
An analytic investigation of some central problems and topics in political philosophy, including political obligation and civil disobedience, liberty, rights, equality, and democracy. Readings are drawn from recent work in the field, along with a few classics.

Spr PHIL0560 S01 13977 MWF 2:00-2:50(07) (D. Estlund)

0880 Ethical Themes in the Contemporary American Short Story
Consideration of contemporary American short stories in terms of their treatment of such philosophical themes as love, loyalty, envy, belief, despair, and charity. Focuses on themes in moral philosophy, rather than themes in social and political philosophy. Enrollment limited to 20.

Spr PHIL0880 S01 25335 MWF 2:00-2:50(07) (F. Ackerman)

0990 Undergraduate Seminars
Seminars whose topics change annually. Enrollment in each seminar is limited to 20. Prerequisites are as noted.

0990S The Problem of Political Obligation
Enrollment limited to 20 first year students. FYS

Fall PHIL0990S S01 15554 W 3:00-5:20(14) (D. Estlund)

0990T Paradox and Infinity
Enrollment limited to 20 first year students. FYS

Spr PHIL0990T S01 25364 M 3:00-5:20(13) (J. Schechter)

0990U To Be Determined
Enrollment limited to 20 first year students. FYS

Spr PHIL0990U S01 25373 Th 4:00-6:20(16) (N. Arpaly)

0990V Current Questions About Rational Belief
Enrollment limited to 20 first year students. FYS

Fall PHIL0990V S01 15564 M 3:00-5:20(13) (D. Christensen)

(For Undergraduates and Graduates)

1400 Ethics in the Novel
Consideration of novels in terms of their treatment of such philosophical themes as death, courage, faith, betrayal, responsibility to others, and mercy. Focuses on themes in moral philosophy rather than themes in social and political philosophy. Half of the course deals with Malory, the other half with contemporary American novels.

Fall PHIL1400 S01 13981 TTh 2:30-3:50(11) (F. Ackerman)

1420 Philosophy and Poetry
An examination of philosophy and poetry as rival avenues to the apprehension of truth, as well as an introduction to the basic problems of aesthetics. Philosophical readings will range from Plato to Hegel to contemporary writers. The focus of the course will be three philosophical poems: Lucretius' On the Nature of Things, Wordsworth's Prelude, and Eliot's Four Quartets. One previous course in philosophy is recommended.

Spr PHIL1420 S01 25337 TTh 1:00-2:20(10) (C. Larmore)

1520 Consciousness
Topics will include: forms of consciousness, physicalist and representationalist theories of qualia, pain and other bodily sensations.
emotional experience, conscious thought, higher order representation theories of consciousness, self-representation theories, global workspace theories, blindsight and related phenomena, and the roles of attention and working memory in perceptual consciousness. Enrollment limited to 50.

Fall PHIL1520 S01 10171 TTh 1:00-2:20(10) (C. Hill)

1550 Decision Theory: Foundations and Applications
Decision theory is a formal apparatus for analyzing preferences and choices. Students learn the formal theory and then examine its foundations and philosophical implications. Specific topics: the role of causation in decision problems, the status of the axioms of the theory, problems of infinite utility, rudimentary game theory, social choice functions, utilitarianism as a theorem.

Fall PHIL1550 S01 15542 TTh 10:30-11:50(09) (J. Dreier)

1590 Philosophy of Science
Examines philosophical issues concerning science such as observational versus theoretical concepts, the nature of laws and theories, the logic of scientific explanation, reduction of concepts and theories, probability and confirmation, functional and teleological analysis, scientific changes and revolutions, and the realist versus irrealist interpretation of theories.

Spr PHIL1590 S01 23904 TTh 2:30-3:50(11) (D. Christensen)

1600 Philosophy of Law
Philosophical examination of the chief classical and contemporary theories of the nature and function of law. Topics include the definition of law, the nature of legal systems, the logic of legal reasoning, the analysis of basic legal conceptions (e.g., of right and duty), legal rules and principles, law and justice, and law and morality.

Fall PHIL1600 S01 15543 TTh 2:30-3:50(11) (J. Dreier)

1610 Philosophy of Relativity Physics
This course will examine how Einstein's Special and General Theory of Relativity bears on important philosophical issues with a focus on whether spacetime constitutes a kind of substance and what spacetime structures are required to support explanations of physical phenomena. Also discussed are connections with logical positivism, cosmology, spacetime singularities, determinism, wormholes, time travel, causation, and the passage of time.

Spr PHIL1610 S01 25339 TTh 1:00-2:20(10) (D. Kutach)

1640 The Nature of Morality
Investigates major theories and issues concerning the nature of moral value. Readings from 20th-century authors. Issues include naturalism, supervenience, moral motivation, subjectivity/objectivity of value, skepticism, moral relativism, and moral realism.

Spr PHIL1640 S01 23684 MWF 2:00-2:50(07) (J. Dreier)

1650 Moral Theories
A systematic examination of the main alternative normative moral theories: consequentialism; moral rights; moral duties; moral virtues. Focuses on the principal issues in the formulation of the different theories, on the main points of conflict between them, and on the critical evaluation of each. Readings are drawn mainly from contemporary work in moral philosophy.

Spr PHIL1650 S01 25340 TTh 6:30-7:50(12) (N. Arpaly)

1660 Metaphysics
Selections from the following topics: causation and determinism, identity and persistence, including personal identity, necessity and possibility, essence and essentialism, freedom and agency, ontology, substances and events, the nature of time, realism and antirealism. Prerequisite: three courses in philosophy.

Fall PHIL1660 S01 13983 TTh 6:30-7:50(12) (J. Broackes)

1750 Epistemology
This course provides a survey of central issues in contemporary epistemology. We will discuss the nature of knowledge, justification, and rationality. Topics include: difficulties with the traditional analysis of knowledge, skepticism about the external world, the nature of empirical justification, the problem of induction, and the epistemology of the a priori.

Spr PHIL1750 S01 25341 MWF 1:00-1:50(06) (C. Hill)

1830 Twentieth-Century Analytic Philosophy
This course will cover major philosophers and movements of the 20th century philosophy in the analytic tradition, from the early ground-breaking works of Frege, Russell, and Wittgenstein through Logical Positivism, "ordinary language" philosophy, Quine, and the later developments. Philosophical issues discussed concern philosophy of language, metaphysics, epistemology, philosophy of science, ethics, and the nature and possibility of philosophy.

Fall PHIL1830 S01 15544 TTh 10:30-11:50(09) (J. Schechter)

1840 Twentieth-Century Continental Philosophy
The course will focus on the main figures of the German tradition--Husserl, Heidegger, Cassirer, Gadamer, Adorno, Habermas, and Tugendhat, with emphasis on their efforts to rethink such key concepts as consciousness, history, reason, and the self. Some attention will be paid to points of intersection with German-language philosophers generally considered "non-Continental"--Frege, Wittgenstein, and the Vienna Circle.

Spr PHIL1840 S01 25342 TTh 10:30-11:50(09) (C. Larmore)

1850 Philosophical Logic
An examination of various philosophical issues arising in the foundations of logic, such as the following: existence, definite description, reference and truth, semantic paradoxes, implication and presupposition, modalities and "possible worlds," logical truth, the nature of logical knowledge, and logic in natural language. Prerequisite: PHIL 1630 or the permission of the instructor.

Spr PHIL1850 S01 25343 MWF 1:00-1:50(06) (J. Schechter)

1990 Senior Thesis
An elective for seniors with at least six previous courses in philosophy. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor's permission required. Fall; Spr

(Primarily for Graduates)

2020 Seminar

2020L Naturalism, Materialism, Physicalism
If contemporary analytic philosophy has a shared ideology, it has to be naturalism. Materialism, or its successor, physicalism, which is closely associated with naturalism, is the default position in many areas of analytic philosophy, notably philosophy of mind, epistemology, metaphysics, and philosophy of science. We will explore why and how all this happened, and examine actual/possible arguments pro and con naturalism-materialism-physicalism. Readings from contemporary sources; we may focus on two books to appear soon: Physicalism by Daniel Stoljar and The Waning of Materialism ed. Robert C. Koons and George Bealer. Open to graduate students only; others may enroll with instructor permission.

Fall PHIL2020L S01 15566 M 3:00-5:20(13) (J. Kim)
Plato distinguishes knowledge from true belief. Open to graduate and false judgment, and accounts, with a view to understanding how knowledge, and associated topics, including relativism, perception, true technical purposes. Readings will include a selection from: Maxwell L. Hardin and the useful anthology edited by Byrne and Hilbert. Open to graduate students only; others may enroll with instructor permission.

In this seminar, we will discuss Plato's Theaetetus, his investigation of knowledge, and associated topics, including relativism, perception, true and false judgment, and accounts, with a view to understanding how Plato distinguishes knowledge from true belief. Open to graduate students only; others may enroll with instructor permission.

Spr PHIL2150I S01 25381 W 3:00-5:20(14) (C. Larmore)

Fall PHIL2200 S01 10192 "To Be Arranged" (D. Kutach)
Spr PHIL2200 S01 20181 "To Be Arranged" (R. Heck)

No description available. Undergraduates require instructor permission to enroll.

For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing for a preliminary examination.

Spr PHIL2970 S01 15550 "To Be Arranged" (J. Schechter)
Spr PHIL2800 S01 24700 "To Be Arranged" (J. Kim)

No description available. Undergraduates require instructor permission.

For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing a thesis.

Spring XLIST Courses of Interest to Philosophy Concentrators

There are many courses that look at philosophers or philosophical questions in other departments, including Africana Studies, Classics, Cognitive and Linguistic Sciences, French Studies, German Studies, Judaic Studies, Mathematics, Modern Culture and Media, Political Science, and Religious Studies. They include:

- Political Science
  - POLS 0110 Introduction to Political Thought
- Religious Studies
  - RELS 0065 On Being Human: Religious and Philosophical Conceptions of the Self
  - RELS 0830 Religion, Reason, and Ethics from Kant to Nietzsche

Spring XLIST Courses of Interest to Philosophy Concentrators

There are many courses that look at philosophers or philosophical questions in other departments, including Africana Studies, Classics, Cognitive and Linguistic Sciences, French Studies, German Studies, Judaic Studies, Mathematics, Modern Culture and Media, Political Science, and Religious Studies. They include:

- Cognitive and Linguistic Sciences
- Greek
- Judaic Studies
- Political Science

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
Physics

(Primarily for Undergraduates)

0030 Basic Physics
Survey of mechanics, electricity, magnetism, optics, and modern physics for concentrators in sciences other than physics-including premedical students or students without prior exposure to physics who require a less rigorous course than PHYS 0050, 0060. Employs the concepts of elementary calculus but little of its technique. Lectures, conferences, and laboratory. Six hours of attendance. Recommended: MATH 0090 or 0100. Students MUST register for a lab, and a lecture section.

Sum PHYS0030 S01 60312 TTh 9:00-11:40 (M. Dorca)
Fall PHYS0030 S01 12470 MWF 11:00-11:50(15)
Fall PHYS0030 S02 15823 MWF 12:00-12:50(15)

0040 Basic Physics
See Basic Physics (PHYS 0030) for course description. Students MUST register for a lab, and a lecture section.

Sum PHYS0040 S01 60315 TTh 9:00-11:40
Spr PHYS0040 S01 21681 MWF 11:00-11:50(15)
Spr PHYS0040 S02 24725 MWF 12:00-12:50(15)

0050 Foundations of Mechanics
An introduction to Newtonian mechanics that employs elementary calculus. Intended for science concentrators. Potential physics concentrators, who do not have adequate preparation for PHYS 0070, may enroll, but are urged to continue with PHYS 0160 rather than PHYS 0060. Lectures, conferences and laboratory. Six hours of attendance. Recommended: MATH 0090 or MATH 0100. Students MUST register for a lab, and a lecture section.

Fall PHYS0050 S01 12471 MW 8:30-9:50(02)

0060 Foundations of Electromagnetism and Modern Physics
An introduction to the principles and phenomena of electricity, magnetism, optics, and the concepts of modern physics. Recommended for those who wish to limit their college physics to two semesters but seek a firm grounding in the subject, including but not limited to those with some previous knowledge of physics. Lectures, conferences, and laboratory. Six hours of attendance. Prerequisite: PHYS 0050. Recommended: MATH 0100. Students MUST register for a lab, and a lecture section.

Spr PHYS0060 S01 21682 MW 8:30-9:50(02)

0070 Analytical Mechanics
A mathematically rigorous introduction to Newtonian mechanics than PHYS 0050. For first-year students and sophomores who have studied physics previously and have completed a year of calculus. Lectures, conferences, and laboratory. Six hours of attendance. Prerequisites: high school physics and calculus or written permission. Students MUST register for a lab, and a lecture section.

Fall PHYS0070 S01 12472 MWF 9:00-9:50(02)

0100 Flat Earth to Quantum Uncertainty: On the Nature and Meaning of Scientific Explanation
Physics has had a dramatic impact on our conception of the universe, our ideas concerning the nature of knowledge, and our view of ourselves. Philosophy, sometimes inspired by developments in physics, considers the impact of such developments on our lives. In this seminar, students will explore how classical and modern physical theory have affected our view of the cosmos, of ourselves as human beings, as well as our view of the relation of mathematical or physical structures to 'truth' or 'reality.' Through a study of physics as well as selected philosophical readings, we will consider how we can know anything, from seemingly simple facts to whether a machine is conscious. Enrollment limited to 20 first year students. FYS WRIT

Spr PHYS0100 S01 21799 TTh 2:30-3:50(11) (L. Cooper)

0110 Excursion to Biophysics
This new course aims at freshmen with good preparation in high school physics, chemistry and biology, but who have not had a set mind what specific disciplines to focus on in their college study at Brown. The course will introduce important physics concepts and techniques relevant to biology and medicine, such as diffusion and transport of molecules and intracellular components, Brown motion and active swimming of microbes, motion of particles confined by a harmonic potential, Boltzmann distribution, exponential growth or decay, and statistics of single molecule behavior. The goal of the course is to cultivate interest and provide essential basics for more rigorous study of biological physics as a branch of interdisciplinary science. Enrollment limited to 20 first year students. FYS WRIT

Fall PHYS0110 S01 12473 MW 3:00-4:20(13)

0120 Adventures in Nanoworld
Richard Feynman famously said, "There's plenty of room at the bottom," about the possibility of building molecular-size machines operating according to Quantum Mechanics. Scientists are now learning the art, and students in this course will use basic physics and simple mathematical models to understand the phenomena and materials in the nanoworld. Non-science concentrators and potential science concentrators alike will learn about important classes of nanosystems such as macromolecules, nanotubes, quantum dots, quantum wires, and films. We will learn how people make nanosystems and characterize them. We will consider existing and potential applications of nanotechnology, including molecular motors, nanoelectronics, spintronics, and quantum information. Enrollment limited to 20 first year students. FYS WRIT

Fall PHYS0120 S01 15797 TTh 1:00-2:20(10)

0160 Introduction to Relativity and Quantum Physics
A mathematically rigorous introduction to special relativity and quantum mechanics. The second course in the three-semester sequence (PHYS 0470 being the third) for those seeking the strongest foundation in physics. Also suitable for students better served by an introduction to modern physics rather than electromagnetism. Lectures, conferences, and laboratory. Six hours of attendance. Prerequisite: PHYS 0070 or 0050. Recommended: MATH 0180 or 0200. Students MUST register for a lab, and a lecture section.

Spr PHYS0160 S01 23653 MWF 9:00-9:50(02)

0220 Beginning Astronomy
An introduction to basic ideas and observations in astronomy, starting with the observed sky, coordinates and astronomical calendars and cycles, the historical development of our understanding of astronomical objects. Particular emphasis is placed on the properties of stars, galaxies, and the Universe as a whole. The material is covered at a more basic level than PHYS 0270. Knowledge of basic algebra and trigonometry is required, but no experience with calculus is necessary. The course includes evening laboratory sessions.

Spr PHYS0220 S01 21684 TTh 10:30-11:50(09)

0270 Introduction to Astronomy
A complete survey of basic astronomy, more rigorous than is offered in PHYS 0220. Requires competence in algebra, geometry, trigonometry, and vectors and also some understanding of calculus and classical mechanics. Laboratory work required. This course or an equivalent

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
required for students concentrating in astronomy. The course includes conferences and evening laboratory sessions. Enrollment limited to 50.

Fall PHYS0270 S01 12474 W 3:00-5:20(14)

0470 Electricity and Magnetism
Electric and magnetic fields. Motion of charged particles in fields. Electric and magnetic properties of matter. Direct and alternating currents. Maxwell’s equations. Laboratory work. Prerequisites: PHYS 0040, 0060, or 0160, and MATH 0090 or 0100. Labs meet every other week. Students MUST register for a lab, and a lecture section.

Fall PHYS0470 S01 12476 MWF 10:00-11:50(03)

0500 Advanced Classical Mechanics
Dynamics of particles, rigid bodies, and elastic continua. Normal modes. Lagrangian and Hamiltonian formulations. Prerequisites: PHYS 0070, 0160 or 0050, 0060 and MATH 0180 or 0200; or approved equivalents.

Spr PHYS0500 S01 21691 MWF 10:00-11:50(03)

0560 Experiments in Modern Physics
Introduction to experimental physics. Students perform fundamental experiments in modern quantum physics, including atomic physics, nuclear and particle physics, and condensed matter physics. Visits to research labs at Brown acquaint students with fields of current research. Emphasizes laboratory techniques, statistics, and data analysis. Three lecture/discussion hours and three laboratory hours each week. Required of all physics concentrators. Prerequisites: PHYS 0070, 0160 or 0050, 0060; 0470. WRIT Students MUST register for a lab, and a lecture section. WRIT

Spr PHYS0560 S01 21692 MWF 11:00-11:50(04)

0720 Methods of Mathematical Physics
This course is designed for sophomores in physical sciences, especially those intending to take sophomore or higher level Physics courses. Topics include linear algebra (including linear vector spaces), Fourier analysis, ordinary and partial differential equations, complex analysis (including contour integration). Pre-requisites: PHYS 0060 or 0160, MATH 0180, 0200 or 0350, or consent of the instructor.

Fall PHYS0720 S01 13330 MWF 11:00-11:50(04)

0790 Physics of Matter
An introduction to the principles of quantum mechanics and their use in the description of the electronic, thermal, and optical properties of materials. Primarily intended as an advanced science course in the engineering curriculum. Open to others by permission. Prerequisites: ENGN 0040, APMA 0340 or equivalents.

Fall PHYS0790 S01 12481 TTh 9:00-10:20(08)

1100 Introduction to General Relativity
An introduction to Einstein’s theory of gravity, including special relativity, spacetime curvature, cosmology and black holes. Prerequisites: PHYS 0500 and MATH 0520 or MATH 0540 or equivalent, or permission of the instructor. Recommended: PHYS 0720. Offered every other year.

Spr PHYS1100 S01 25638 TTh 9:00-10:20(08)

1250 Stellar Structure and the Interstellar Medium
This class is an introduction to the physics of stars and their environment. The course covers the fundamental physics that set the physical properties of stars, such as their luminosity, size, spectral properties and how these quantities evolve with time. In addition, it includes a study of the physics that takes place in the gaseous environment surrounding stars, the Interstellar Medium (ISM). The ISM is very important because it contains a wealth of information on the evolution of galaxies, their composition, formation and future. Prerequisites: PHYS 0270, PHYS 0500, or instructor permission. PHYS 1530 (perhaps taken concurrently) is strongly recommended but not required.

Fall PHYS1250 S01 15802 TTh 1:00-2:20(10)

1410 Quantum Mechanics A
A unified treatment of quanta, photons, electrons, atoms, molecules, matter, nuclei, and particles. Quantum mechanics developed at the start and used to link and explain both the older and newer experimental phenomena of modern physics. Prerequisites: PHYS 0500, 0560; or MATH 0520, 0540; or approved equivalents.

Fall PHYS1410 S01 12482 MWF 9:00-9:50(02)

1420 Quantum Mechanics B
See Quantum Mechanics A, (PHYS 1410) for course description.

Spr PHYS1420 S01 21694 MWF 9:00-9:50(02)

1510 Advanced Electromagnetic Theory
Maxwell’s laws and electromagnetic theory. Electromagnetic waves and radiation. Special relativity. Prerequisites: PHYS 0470 and MATH 0180 or 0200, or approved equivalents.

Fall PHYS1510 S01 12483 TTh 9:00-10:20(08)

1530 Thermodynamics and Statistical Mechanics
The laws of thermodynamics and heat transfer. Atomic interpretation in terms of kinetic theory and elementary statistical mechanics. Applications to physical problems. Prerequisites: MATH 0180 or 0200. Corequisite: PHYS 1410.

Fall PHYS1530 S01 12484 TTh 10:30-11:50(09)

1560 Modern Physics Laboratory
A sequence of intensive, advanced experiments often introducing sophisticated techniques. Prerequisites: PHYS 0470, 0500, 0560; or MATH 0520, 0540; or approved equivalents. WRIT

Spr PHYS1560 S01 21697 TTh 9:00-10:20(08)

1610 Biological Physics
Introduction on structures of proteins, nucleotides, and membranes; electrostatics and hydration; chemical equilibrium; binding affinity and kinetics; hydrodynamics and transport; cellular mechanics and motions; biophysical techniques including sedimentation, electrophoresis, microscopy and spectroscopy. Suitable for undergraduate science and engineering majors and graduate students with limited background in life science. Prerequisites: MATH 0180.

Fall PHYS1610 S01 12491 TTh 2:30-3:50(11)

1970 Special Topics in Experimental and Theoretical Physics
Please see individual topics for descriptions.

1970D To Be Determined
Pending Approval. No description available.

Fall PHYS1970D S01 15805 ‘To Be Arranged’

1980 Undergraduate Research in Physics
Designed for undergraduates to participate, individually or in small groups, in research projects mentored by the physics faculty. Students must have taken one year of college level physics. An average of 8 to 10 hours per week of guided research is required as are weekly meetings with the supervising faculty member. Students should consult with faculty to find a mutually agreeable research project and obtain

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Political Science

(Primarily for Undergraduates)

0010 Introduction to the American Political Process
Focuses on how the American political process resolves conflicts among elected officials, groups, institutions, and the voters, over key issues facing the country. Students MUST register for a conference, and a lecture section.

Spr POLS0010 S01 25206 MWF 9:00-9:50(02)  (R. Cobb)

2300 Quantum Theory of Fields I

Spr PHYS2300 S01 21709 TTh 2:30-3:50(11)

2320 Quantum Theory of Fields II

Fall PHYS2320 S01 12503 TTh 10:30-11:50(09)

2340 Group Theory
Offered every other year.

Spr PHYS2340 S01 25654 MWF 2:00-2:50(07)

2410 Solid State Physics I

Fall PHYS2410 S01 12504 MWF 12:00-12:50(12)

2420 Solid State Physics II

Spr PHYS2420 S01 21710 MWF 1:00-1:50(06)

2470 Advanced Statistical Mechanics

Fall PHYS2470 S01 15821 "To Be Arranged"

2710 Seminar in Research Topics
Instruction via reading assignments and seminars for graduate students on research projects. Credit may vary. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course.

Fall

2711 Seminar in Research Topics
See Seminar In Research Topics (PHYS 2710) for course description. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course.

Spr

2970 Preliminary Examination Preparation
For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing for a preliminary examination.

Fall PHYS2970 S01 12506 "To Be Arranged"

Spr PHYS2970 S01 21711 "To Be Arranged"

2980 Research in Physics
Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor’s permission required.

Fall

2981 Research in Physics
Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course.

Spr

2990 Thesis Preparation
For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing a thesis.

Fall PHYS2990 S01 12507 "To Be Arranged"

Spr PHYS2990 S01 21712 "To Be Arranged"

Political Science

(Primarily for Undergraduates)

2010 Techniques in Experimental Physics

Fall PHYS2010 S01 12493 Th 4:00-6:20(13)

Spr PHYS2010 S01 21705 Th 4:00-6:20(16)

2020 Mathematical Methods of Engineers and Physicists

Fall PHYS2020 S01 14694 TTh 10:30-11:50(09)

2030 Classical Theoretical Physics I

Fall PHYS2030 S01 12500 TTh 9:00-10:20(08)

2040 Classical Theoretical Physics II

Spr PHYS2040 S01 21706 TTh 10:30-11:50(09)

2050 Quantum Mechanics

Fall PHYS2050 S01 12501 MWF 10:00-10:50(03)

2060 Quantum Mechanics

Spr PHYS2060 S01 21707 MWF 10:00-10:50(03)

2070 Advanced Quantum Mechanics

Fall PHYS2070 S01 12502 MWF 1:00-1:50(06)

2140 Statistical Mechanics

Spr PHYS2140 S01 21708 MWF 12:00-12:50(05)

2170 Introduction to Nuclear and High Energy Physics

Spr PHYS2170 S01 25651 MW 8:30-9:50(02)

2200 Elementary Particle Physics I
Alternates with Physics 221. Instructor’s permission required.

Fall PHYS2200 S01 14732 MWF 2:00-2:50(07)

2280 Astrophysics and Cosmology
This course serves as a graduate-level introduction to modern cosmology, including current topics of research on both observational and theoretical fronts. Topics include relativistic cosmology, inflation and the early Universe, observational cosmology, galaxy formation. Prerequisites for undergraduates: PHYS 1280 and PHYS 1530.
Spr PHYS2280 S01 25653 MWF 2:00-2:50(07)

2300 Quantum Theory of Fields I

Spr PHYS2300 S01 21709 TTh 2:30-3:50(11)

2320 Quantum Theory of Fields II

Fall PHYS2320 S01 12503 TTh 10:30-11:50(09)
0110 Introduction to Political Thought
What is justice? What is freedom? What is the basis of political authority? What is the nature of the best regime? Why should we obey the laws? When may we legitimately resist? These and other perennial questions of political life are explored. Readings includes Aristotle, Machiavelli, Hobbes, Locke, Rousseau, Marx, and J.S. Mill.
Spr  POLS0110  S01  25219  MWF 10:00-10:50(03)

0200 Introduction to Comparative Politics
Introduces students to the sub-field of comparative politics or politics within states. Topics include types of regimes (i.e., democratic, authoritarian, totalitarian); transitions to democracy and the collapse of democratic regimes; revolutionary and ethnic challenges to the state; and globalization. The course also pays attention to modes of analysis in comparative politics. Cases will be drawn from various regions, including Western and Eastern Europe, Latin America, the Mid-East, and Africa.
Fall  POLS0200  S01  13630  MWF 1:00-1:50(06)  (L. Cook)

0210 Understanding Radical Islam
Why has radical, political Islam emerged as a global threat in our lifetime? This course examines potential domestic sources, such as repressive governments and poverty, as well as international sources, such as U.S. foreign policy, with a special emphasis on the various strategies that governments of states with predominantly Muslim populations have taken toward political Islam.
Sum  POLS0210  S01  60331  TTh 9:00-1:00  (P. Luong)

0330 International Political Economy of Development
What is international political economy, what is development, and how can we understand the phenomenon of globalization? This course provides a general introduction to the interaction between international politics and international economics, especially related to developing countries. The first part of the course introduces several theoretical approaches to international political economy. The second part analyzes some of the classic issue areas of international trade relations; foreign direct investment; the international monetary and financial system and the role of international institutions; debt and financial crises; and poverty, inequality and the Millennium development goals. The third part includes analysis of the promises and pitfalls of globalization, and the relationship of globalization to governance, democracy, and human rights.
Sum  POLS0330  S01  60317  TTh 1:30-5:30  (F. Ocakli)

0400 Introduction to International Politics
This course provides a basic introduction to the central theoretical perspectives and debates in international relations. The second part of the course applies these models to current problems in international relations, including environmental degradation, pandemic disease, human trafficking, transnational organized crime, and terrorism.
Fall  POLS0400  S01  15447  MWF 11:00-11:50(04)  (R. McDermott)

0500 Foundations of Political Analysis
This course provides an introduction for undergraduate students to the methods that political scientists (and other social scientists) use to generate and answer questions about the world around us. The course covers the nature of description and explanation in political science, alternative research schools, and basic tools of quantitative and qualitative data analysis. This course is best taken in a student's first or second year.
Fall  POLS0500  S01  15448  TTh 9:00-10:20(08)  (R. Weitz-Shapiro)

0820 First Year Seminar
Enrollment limited to 20 first year students. FYS

0820D Freedom
What is freedom? Is it important? How do we know? What should we do about it? We will analyze the different conceptions of liberty - liberal egalitarian, classical liberal, Marxist, and fascist views. We will determine how the various aspects of freedom - political, personal, psychological, economic, and moral - are complementary, and determine what sorts of institutions promote or undermine these aspects. Enrollment limited to 20 first year students and sophomores.
FYS  Fall  POLS0820D  S01  15449  T 4:00-6:20(13)

0820G Race and Political Representation
While representation is a central tenet of democracy, much disagreement exists over what political representation means and the best way to ensure equitable representation for all citizens. We will study representation and its various forms. We will then use these concepts to examine research on how well American democratic institutions capture the interest of racial and ethnic minorities. Enrollment limited to 20 first year students. FYS
Spr  POLS0820G  S01  25220  Th 4:00-6:20(16)  (K. Gamble)

0820Q Politics of American Federal Holidays
Why were ten national holidays created? The answer requires a review of key events in American political history from 1775 to 1983. Why was the Civil War pivotal? Which presidents were most important in generating support for special days? Conflicts occurred not only in creating the day but which day would be the holiday. Enrollment limited to 20 first year students. FYS
Fall  POLS0820Q  S01  14302  M 3:00-5:20(13)  (R. Cobb)

0820S Capitalism For and Against
What is capitalism? What are its defining traits and institutions, and the roles of the market and the state? How should individual rights and social responsibilities be balanced? What are capitalism's strengths and weaknesses? Are capitalist societies or other types of systems the best way to achieve justice, promote excellence, and provide freedom, happiness, and material well-being? What are the coherent criticisms of and alternatives to capitalism? This course will study some of the seminal philosophical arguments about capitalism, focusing especially on Smith, Locke, Rousseau, Marx, and Hayek. Enrollment limited to 20 freshmen and sophomores.
Spr  POLS0820S  S01  25221  T 4:00-6:20(16)  (For Undergraduates and Graduates)

1010 Topics in American Constitutional Law
The year 2008 marked the 140th anniversary of the United States Constitution's Fourteenth Amendment, which, among many other things, extended national citizenship to newly-freed slaves and embodied the twin promises of equality and liberty for all (or at least for many). This course in Constitutional Law will consider what "equality" and "liberty" have come to mean since the passage of the Fourteenth Amendment in 1868. To that end, we will look closely at the way in which the Supreme Court's equality (equal protection) and liberty (due process) jurisprudence has evolved over the past 140 years, paying close attention to equal protection cases dealing with race, gender, disability, and sexual orientation, and to due process cases dealing with abortion, marriage, sexuality, and the family. Readings will include a Constitutional Law casebook and some additional supplemental materials.
Spr  POLS1010  S01  25222  MWF 1:00-1:50(06)  (C. Bretschneider)
the exclusive right to punish and if so why? Should the family be regarded as beyond justice? Is there a tension between democratic self-governance and freedoms from coercion? With an emphasize on both lectures and Socratic dialogue, this course is designed to engage students in conversations with the most prominent work in modern and contemporary political thought and to get them to engage with the most fundamental questions faced by our polity. We will draw on canonical modern and contemporary writers to see understand the most important debates of the modern period and as importantly to help us dig deep into fundamental questions of justice and legitimacy. Readings from Hobbes, Locke, Rousseau, Marx, Rawls, Okin, Cohen and others. Some prior work in political theory or philosophy suggested. Prerequisite: POLS 0110 or instructor permission.

Fall POLS1030 S01 15450 TTh 10:30-11:50(09) (C. Brettschneider)

1100 Congress and Public Policy
How does Congress really work? Who holds power in Congress? How does Congress change when party control changes hands? Does Congress make a difference in policy outcomes? The structures governing both the House and the Senate and the interaction between them are examined as well as the overall relationship between Congress and the president. Prerequisite: POLS 0010, 0100, or PPAI 0100.

Spr POLS1100 S01 25223 MWF 11:00-11:50(04) (W. Schiller)

1150 Prosperity: The Ethics and Economics of Wealth Creation
What is prosperity? Whom does prosperity benefit? Which institutions and attitudes produce prosperity? What is the relation of prosperity to other values such as efficiency, happiness, equality, fairness, religious faith or personal freedom? This course explores the problem of prosperity from a variety of disciplinary perspectives: philosophical, economic, historical, religious, and literary. Enrollment limited to 50.

Spr POLS1150 S01 24224 MWF 1:00-1:50(06) (J. Tomasi)

1160 Constitutional Law: Governmental Powers
This course examines governmental powers under the United States Constitution, addressing the powers of Congress, the President, and the courts, as well as the relationship between the national and state governments. The primary reading materials will be leading Supreme Court cases, supplemented by additional reading materials on history and legal theory. The course will consider the role of the courts in enforcing constitutional principles in a democratic system, as well as theories of constitutional interpretation and constitutional change.

Fall POLS1160 S01 14956 TTh 6:30-7:50(12)

1170 Constitutional Law: Individual Rights
Examines the scope of individual rights under the United States Constitution and will focus on equal protection, due process, free speech, and religion. The primary reading materials will be leading Supreme Court opinions interpreting and applying the First and Fourteenth Amendments, supplemented by readings on legal history and theory. The course will consider the role of the courts in enforcing individual rights in a constitutional democracy, as well as theories of constitutional interpretation and constitutional change.

Spr POLS1170 S01 24818 TTh 6:30-7:50(12)

1210 Latin American Politics
Focuses on political and economic transformation in contemporary Latin America. Special attention is given to the processes of market-oriented economic reforms and democratization that have swept the region during the last twenty-five years. Includes in-depth country case studies where key themes can be discussed and elaborated. Enrollment limited to 30.

Spr POLS1210 S01 22706 TTh 2:30-3:50(11) (R. Snyder)

1240 Politics, Markets and States in Developing Countries
How can we explain fundamental differences in economic performance and policy across developing countries in the face of Globalization? Why are some countries praised as economic "miracles," yet others seem mired in inescapable stagnation? This course addresses these questions by introducing the basic topics, concepts, and theoretical approaches that comprise the field of political economy of development. The course draws on case studies from Asia, Africa, and Latin America.

Fall POLS1240 S01 13633 MWF 11:00-11:50(04) (R. Snyder)

1270 Politics and Economies in the Middle East
Provides an overview of contemporary political and economic issues in the Middle East, including ongoing struggles over state and nation building, transnational challengers to the nation-state, civil society and opposition movements, economic development, political Islamism and the apparent rise of ethnic and sectarian strife in the region.

Spr POLS1270 S01 24225 TTh 10:30-11:50(09) (M. Cammert)

1280 Politics, Economy and Society in India
This course will concentrate on three aspects of the "Indian experience": democracy, ethnic and religious diversity, and political economy. With a brief exception, India has continued to be democratic since 1947. No developing country matches India's democratic record. Second, remarkable cultural, ethnic and religious diversity marks India's social landscape, and influences its politics. Third, Indian economy has of late been going through a serious economic transformation, drawing comparisons with China. Is the comparison valid?

Spr POLS1280 S01 24226 TTh 1:00-2:20(10) (A. Varshney)

1310 African American Politics
Focuses on the contemporary African American politics in various spheres of the American political environment. Examines also how the concept of an African American community has evolved and shifted historically. We will pay particular attention to the growing diversity within the African American community and discuss what these changes mean for black political participation, representation, and organizing.

Fall POLS1310 S01 15451 MWF 9:00-9:50(02) (K. Gamble)

1380 Ethnic Politics and Conflict
Course focuses on the politics of rising national consciousness and the development of ethnic conflicts. It covers sources of contemporary nationalism; nationalist political mobilization; emergence of conflicts; impact on societies of internal strife and wars; international interventions; explanations for resolution or persistence of conflict; politics of post-conflict states. The course combines analytical texts and case studies. Cases from Eastern and Western Europe, North America, South Asia, and Africa.

Spr POLS1380 S01 24443 TTh 10:30-11:50(09) (L. Cook)

1400 Europe and America
Explores the contours of North Atlantic international politics through a variety of theoretical lenses. Examines the grand outlines of European, American, and transatlantic international affairs; the politics and legacies of the Cold War; and the history, theory, and politics of European integration. Then turns to North Atlantic affairs and transatlantic relations post-Cold War, and to Europe and America in the (twenty-first century) world to come.

Spr POLS1400 S01 24217 MWF 2:00-2:50(07) (U. Krotz)

1415 Classics of Political Economy
Traces some of the most important classical statements of political economy through a consideration of some of the major contributions to the "political" study of the economy from the seventeenth century to the present; Locke, Ricardo, Smith, Rousseau, Mill, Bentham, Marx,
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Mill, Marshall, Keynes, Hayek, Friedman, and Lucas shall be examined. By mapping the parallel evolution of the liberal/capitalist economy and the liberal/democratic notion of the individual, who is both a product of, and a producer within, this economy, the course hopes to demonstrate both the political nature of economics and the economic bases of politics. First year students require instructor permission to enroll. Not open to students who have taken POLS 1822B.

Fall POLS1415 S01 15462 MWF 10:00-10:50(03) (M. Blyth)

1420 Money and Power in the International Political Economy

Examines how the interaction of states and markets create distinct global monetary and political orders. Class analyzes the shift from the classical liberal Gold Standard through the Post-War Bretton Woods arrangements through to the globalized IPE of today. Instructor permission required.

Spr POLS1420 S01 24749 TTh 1:00-2:20(10) (M. Blyth)

1430 Roots of Radical Islam

Why has radical political Islam emerged as a global threat in our lifetime? This course examines potential domestic sources, such as repressive governments and poverty, as well as international sources, such as U.S. foreign policy, with a special emphasis on the various strategies that governments of states with predominantly Muslim populations have taken toward political Islam.

Fall POLS1430 S01 14621 TTh 9:00-10:20(08) (P. Luong)

1480 Theory of International Relations

Provides an overview of basic thinking about international relations. Focuses on the conceptual foundations, grand intellectual traditions and main theoretical trajectories, and key scholarly disagreements that have shaped the discipline of international relations over the past century and on the principal theoretical fault lines that define it today. Also scrutinizes a number of central topics in contemporary international affairs. Prerequisite: POLS 0400 recommended but not required.

Fall POLS1480 S01 14306 TTh 1:00-2:20(10) (U. Krotz)

1540 Black Markets, Governance, and the Global Economy

Examines the most problematic black markets in the global economy, the criminal organizations that are involved in illegal commerce, and the governance challenges that governments and the international community face. The course traces the evolution of black markets around the world, and evaluates the politics and efficacy of national and international regulatory and law enforcement efforts. Taking an interdisciplinary approach, students will critically examine how black markets and organized criminal activities are structured and operate, how they intersect with governmental institutions and practices, and how they shape (and are shaped by) domestic and international politics. Not open to first year students.

Sum POLS1540 S01 60358 MW 1:30-5:30 (M. Luong)

1560 American Foreign Policy

This course provides an overview of American Foreign Policy since World War II. The emphasis will be on defense and security policy, and not on foreign economic policy. This course covers significant historical events and personalities over the course of the second half of the twentieth century. When events dictate, part of any given daily class may be devoted to current events in American Foreign Policy, with emphasis on their historical source and context. Prerequisite: POLS 0400.

Fall POLS1560 S01 14314 MWF 2:00-2:50(07) (R. Mc Dermott)

1600 Political Research Methods

Introduction to basic research methods in political science. Topics include descriptive and inferential statistics, sampling theory and measurement. Emphasis placed on understanding concepts of statistics and how statistics apply to the "real world" political issues. Limited to sophomore, junior, and senior Political Science and Public Policy concentrators. Enrollment limited to 40.

Sum POLS1600 S01 24440 MWF 11:00-11:50(04)

1740 Politics of Food

How do politics and public policy shape the nature of farming and the price of food in the United States? What is the extent of hunger and malnutrition in the country, and how to politics and public policy shape the responses to these issues? How will states or government regulate the safety and healthfulness of food? This course will draw on a combination of case studies and scholarly work to examine these questions. The significance of globalization will also be considered but the emphasis of the course will be on American politics and policy. The course is not open to first-year students and is limited to Political Science and Public Policy concentrators. Instructor permission required.

Spr POLS1740 S01 24227 TTh 2:30-3:50(11) (R. Cheit)

1750 Black Political Leadership

This course uses black political thought to understand historical and contemporary forms of black political leadership. It explores the diversity of voices, ideologies, and strategies adopted by black leaders to address an array of political and social challenges. It also focuses on how shifting goals, political contexts, and generational changes shape black leadership. Certain black leaders such as W.E.B. DuBois and Barack Obama are used to understand the different types of black political leadership.

Spr POLS1750 S01 25224 TTh 9:00-10:20(08) (K. Gamble)

1760 The Obama Infrastructure Policy

The focus is on transportation infrastructure: roads, bridges, rail, transit and airports. How has our infrastructure developed over the past two centuries? Which presidents have been leaders? How does Obama compare with his predecessors? Who are the key actors in congress and bureaucracy that control the distribution of money? What are the key interest groups? Prerequisite: POLS 0010 or 0100. Not open to students who have taken POLS 1080.

Fall POLS1760 S01 15452 MW 8:30-9:50(02) (R. Cobb)

1770 Education, Inequality, and American Democracy

Pending Approval. Controversy surrounds the contributions that education has made to the development and performance of American democracy. This course will explore that controversy by examining ideas about the role of education in democratic society, the development of American common schools, the dilemmas posed by vast inequalities in American schooling, and the ultimate effects of education on participation in the American political process.

Fall POLS1770 S01 15463 TTh 2:30-3:50(11) (S. Moffitt)

1820 Research Seminars

Enrollment Limited to 20.

1820D Civil Liberties: Moral, Political and Legal Approaches

This course will examine major constitutional controversies within the context of wider debates in political and legal theory. Readings from Supreme Court cases and prominent texts in political/legal theory. Topics include free speech, privacy, abortion, takings and capital punishment. Prior course work in political theory or philosophy recommended. Enrollment limited to 20 juniors and seniors.

Sum POLS1820D S01 60318 TTh 1:30-5:30 (C. Brettschneider)

1820J Dynamics of Agenda Building

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
How do new issues make the political agenda? Why aren't elections crucial? Who are the "problem pushers" and "solution savers"? How are they linked? What factors determine the life of an issue? The key processes include problem identification, conflict expansion through issue redefinition, the role of institutional actors and issue activists. Focus limited to domestic American politics. Prerequisite: POLS 0010 or 0100. Enrollment limited to 20 juniors and seniors.

Spr POLS1820J S01 24219 M 3:00-5:20(13) (R. Cobb)

1820N International Relations in Europe
Reviews central issues in European international affairs from a variety of theoretical and analytic perspectives. Substantive issues considered include the politics of European integration, "Europeization," European foreign and security policy, Europe as part of the North Atlantic world and transatlantic relations, issues of European identity and Europe in the world to come. Time also allocated for discussions of course participants' research. Designed mainly for advanced undergraduates, but graduate students are welcome. Enrollment limited to 20 juniors and seniors.

Fall POLS1820N S01 15453 M 3:00-5:20(13) (U. Krotz)

1821C Economic Freedom and Social Justice
Can capitalists care about social justice? This course considers the proposition that capitalists can, and should care. We begin with an overview of classical and contemporary sources about the idea of economic freedom and its relationship to social justice. Enrollment limited to 20 seniors.

Fall POLS1821C S01 14307 F 3:00-5:20(15) (J. Tomasi)

1821H Authority and Legitimacy
What gives people in power the right to make and enforce laws? The course examines classic and contemporary conceptions of political authority and legitimacy. What is authority and when is it legitimate? Does legitimate authority depend on the consent of citizens, or on the justice of decisions? Can the people hold ultimate authority over the law, or is this merely empty rhetoric? Authors include Hobbes, Rousseau, Weber, Schmitt, Arendt, Althusser, Wolff, Nozick, and Habermas. Enrollment limited to 20 juniors and seniors.

Fall POLS1821H S01 15454 T 4:00-6:20(13)

1821J Rhode Island Government and Politics
Students participate in an approved internship in Rhode Island State Politics. Students will be expected to work 8-10 hours a week in an office of state government and, at the end of the semester, reflect on what they've learned. Enrollment limited to 20 senior Political Science concentrators. Instructor permission required.

Spr POLS1821J S01 23824 F 3:00-5:20(15) (J. Morone)

1821M War in Film and Literature
This course introduces students to a study of warfare, and some of the central issues raised in war, through the use of movies and novels. Central themes include civil-military relations, leadership, the role of women in war, managing the home front as well as issues related to battlefield tactics and strategy. Students will be encouraged to address these topics in applications related to World War I, World War II, and Vietnam in particular. This course will take place in a seminar format which stresses discussion of the relevant materials. Enrollment limited to 20 juniors and seniors. Students MUST register for a film screening, and a lecture section.

Spr POLS1821M S01 25225 W 3:00-5:20(14) (R. McDermott)

1821O Politics of Economic Development in Asia
It is widely accepted that development is not simply an economic phenomenon. Political processes are intimately tied up with economic development. Does the nature of the political system affect development? Does democracy slow down economic growth? What is the relationship between democracy and economic liberalism? If countries embrace political freedoms and market-oriented economic reforms, should one expect both to succeed equally? Since the Second World War, an enormous amount of intellectual effort has gone into understanding these issues. Asia has been at the heart of much of this literature. The heaviest emphasis will be on China, India and South Korea. Enrollment limited to 20 juniors and seniors.

Fall POLS1821O S01 15455 W 3:00-5:20(14) (A. Varshney)

1821R State Sovereignty and International Law
How should international law affect domestic politics and authority? What kinds of international rules, regulations and norms are there? What authority do they have? Should states obey international law even when it conflicts with their interests and that of their citizens? Is a law-governed order attainable in a world of sovereign states? This seminar explores the evolution of international law and its relation to state sovereignty. Authors include Bodin, Gentili, Grotius, Pufendorf, Rabkin, and Held. Enrollment limited to 20 juniors and seniors.

Spr POLS1821R S01 25227 T 4:00-6:20(16)

1821T Criminal Justice System
An examination of police, criminal courts, and prisons in the contemporary United States. Major topics include police discretion, plea bargaining, and theories of punishment. We will also examine the politics of crime, including federal efforts to influence these traditional state functions. Major assignments are based in the Rhode Island criminal justice system. Enrollment limited to 20 juniors and seniors.

Fall POLS1821T S01 13635 W 3:00-5:20(14) (R. Chet)

1821X The Politics of Social Welfare in the Middle East
This seminar explores the politics of social welfare in the Middle East. The first section of the course examines the concept and origins of welfare systems in developing countries as well as the relationship between the state, NGOs, civil society and informal networks in social service provision. This segment of the course also provides an overview and brief history of welfare regimes in the Middle East as well as concepts of charity and justice in Islam. Enrollment limited to 20 seniors and, pending available spots, juniors, with preference for concentrators in Political Science, Developmental Studies, International Relations, and Middle East Studies.

Spr POLS1821X S01 23699 Th 4:00-6:20(16) (M. Cammett)

1822A Markets and States
For most of the post-war era the state has served as the primary mechanism for resource allocation. However, by the 1990s, fiscal crises, the erosion of ideologies advocating state intervention, and the pressures of globalization compelled many countries to reconsider the state's economic role. This course examines these new challenges and analyzes how policymakers respond, focusing on the political incentives, institutional constraints, and economic influences that policymakers confront when choosing between various alternatives. Enrollment limited to 20 juniors and seniors.

Spr POLS1822A S01 24442 M 3:00-5:20(13) (P. Luong)

1822F Eastern European States: Domestic Politics and European Integration
This seminar examines the post-1989 politics of Eastern Europe states, and the effects of their integration into Europe. Topics include political institutions; civil society; ethnic relations; effects of integration into global markets; significance of accession to the European Union; and growing tensions among old and new EU member states. Cases are drawn from ECE (Poland, Hungary, etc.), the Baltics, Ukraine. Enrollment limited to 20.

Fall POLS1822F S01 1564 M 3:00-5:20(13) (L. Cook)

1822G Political Economy of Development and Globalization
Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
Understanding and promoting economic, social, and political development is one of the primary challenges facing the world in the twenty-first century. This seminar explores key problems of development and globalization from a comparative and interdisciplinary perspective. Prerequisite: discretion of instructor. Enrollment limited to 20 juniors and seniors.

Fall POLS1822G S01 15465 Th 4:00-6:20(13) (R. Snyder)

1822H Corruption and Clientelism in the Developing World
In recent years, the issue of "governance" has attracted increasing attention. Why are some governments more corrupt than others? Why do some governments distribute government programs equitably, while others manipulate them for political ends? The purpose of this class is to characterize, examine, and, to the extent possible, explain the persistence of these "bad governance" practices in many democracies in the developing world. We will draw on examples from Latin America, Africa, and Asia, and we will also make comparisons with appropriate current and historical cases from Western Europe and the United States. Enrollment limited to 20 juniors and seniors.

Spr POLS1822H S01 25231 Th 4:00-6:20(16) (R. Weitz-Shapiro)

1910 Senior Honors Thesis Preparation
Concentrators who have given evidence of superior work in political science may be admitted to honors seminar on the basis of an application submitted in the spring of their junior year. Application and guidelines may be obtained on the Department of Political Science website. Prerequisite: Fulfillment of Methods requirement. Enrollment limited to senior Political Science concentrators. Instructor permission required.

Fall POLS1910 S01 11944 MWF 12:00-12:50(12) (J. Morone)

1920 Senior Honors Thesis Preparation
This course is a continuation of POLS 1910. Political Science Honors students who are completing their theses should enroll. Prerequisite: POLS 1910. Instructor permission required.

Spr POLS1920 S01 21393 MWF 12:00-12:50(05) (J. Morone)

1970 Individual Reading and Research
Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor's permission required.

Fall

1971 Individual Reading and Research
Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor's permission required.

Spr

(Primarily for Graduates)

2000 Strategies of Inquiry and Research Design
Introduction to research methods common in political science research. Topics include theory development, problems of explanation and causation, problem identification, research design, and other fundamentals of empirical research. Graduate students only.

Fall POLS2000 S01 11945 F 3:00-5:20(15)

2020 American Political Development
Spr POLS2020 S01 25228 'To Be Arranged' (J. Morone)

2050 Preparing the Prospectus I
This course covers selected topics in research design and methodology and is designed to help students enrolled in the Political Science PhD program to write and defend a prospectus in their third year of study. Enrollment limited to 8.

Fall POLS2050 S01 11954 'To Be Arranged' (M. Cammett)

2051 Preparing the Prospectus II
This course covers selected topics in research design and methodology and is designed to help students enrolled in the Political Science PhD program to write and defend a prospectus in their third year of study. Prerequisite: POLS 2050. Enrollment limited to 8.

Spr POLS2051 S01 21402 'To Be Arranged' (M. Cammett)

2090 Research Seminars

2090G Readings in American Institutions
This course is designed as a readings and research course for graduate students and advance undergraduate students. Students will be required to read and analyze the latest work political science in the subfields of American politics, including but not limited to: public opinion, voting behavior, presidency, racial politics and representation, legislative institutions, political economy, and bicameralism. Open to graduate students only.

Fall POLS2090G S01 15456 'To Be Arranged' (W. Schiller)

2110 Proseminar in Comparative Politics
Provides a survey of major approaches, issues, and debates in the field of comparative politics. Topics: state formation, revolutions and civil wars, ethnic conflict and nationalism, state-market relations; systems of representation, hegemony and domination, etc. Works of theoretical importance on each topic, focusing on authors' arguments and controversies within the literature. Open to graduate students only.

Spr POLS2110 S01 25229 'To Be Arranged' (A. Varshney)

2120 Proseminar in Political Theory
An overview of central debates in political theory today. Readings include contemporary writings on justice, liberalism, democratic theory, critical theory, feminism, power, multiculturalism, and citizenship and political economy. For graduate students and advanced undergraduates with permission of the instructor.

Fall POLS2120 S01 15457 'To Be Arranged' (J. Tomasi)

2150 Democratic Theory, Justice, and the Law
This course will examine contemporary and historical work in the area of democratic political and legal theory. Topics include the relationship between democracy and individual rights, deliberative vs. aggregative conceptions of democracy, the substance/procedure controversy, and the role of judicial review in a democracy. Open to graduate students only.

Fall POLS2150 S01 15458 'To Be Arranged' (C. Brettschneider)

2160 International Political Economy
Pending Approval. Graduate seminar that surveys the subfield of international political economy. Outlines the historical development of the subfield as it moved from questions of US decline to issues of international cooperation and compliance and back to issues of US decline. Places the US research agenda in comparison with schools of IPE in the rest of the world. Topics covered include globalization and distribution, development, IGOs and NGOs in the IPE, Public and Private Authority, the rise and fall of nations. Open to graduate students only.

Fall POLS2160 S01 15459 'To Be Arranged' (M. Blyth)

2200 Politics, Gender and the Welfare State

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
2210 Race, Ethnicity and Politics
This is a graduate-level introduction to the politics of race and ethnicity in the US context. The seminar examines major theoretical perspectives, debates, and research findings in the study of race and its critical influence upon the politics of the US. The course focuses on political representation, political participation, and political attitudes as related to racial and ethnic minorities. Graduate students only; qualified undergraduates with instructor’s permission.

Fall POLS2210 S01 15460 “To Be Arranged” (K. Gamble)

2220 Urban Politics
Covers a number of topics linked to urban politics and urban public policy. Topics include the politics of urban education, affordable housing, downtown development. Examines how state and federal policy actions have contributed to the nature of the urban condition; and how race, class and ethnicity are interwoven with urban politics and urban public policy. Graduate Students only; all others by permission only.

Spr POLS2220 S01 23698 “To Be Arranged” (M. Orr)

2250 Extreme Politics: How Radicals Affect Political Change
Scholarship has increasingly focused on why radical groups emerge. Yet, there is little research to date on how and whether these groups actually have a socio-political impact. This course will examine the mechanisms whereby and the conditions under which political extremists affect political and/or social change across time and space. We will base our analysis on several historical case studies that deliberately vary radical groups according to important characteristics such as: the degree of their prominence in social and political discourse; the extent of their lifespan in a particular country; and whether their tactics include the use of violence. Graduate students only; qualified undergraduates with instructor’s permission. Enrollment limited to 20.

Spr POLS2250 S01 24234 “To Be Arranged” (P. Luong)

2580 Introduction to Quantitative Research Methods
Course begins with basic introduction of statistical analysis and, using STATA, works with students to conduct analysis of their own data set. Open to graduate students in Political Science and Public Policy only.

Fall POLS2580 S01 14957 Th 4:00-6:20(13)

2590 Quantitative Research Methods
An intermediate statistics course for graduate students. Includes descriptive and inferential statistics, sampling theory, levels of measurement, multivariate regression, and logit/probit analysis. Explores the use of statistics in many fields of political science and public policy including American institutions, comparative politics, and international relations. Open to graduate students concentrating in Political Science or Public Policy.

Spr POLS2590 S01 24750 W 2:00-4:30(14) (S. Moffitt)

2970 Preliminary Examination Preparation
An independent study directed by a tenure-line faculty member of the Department of Political Science. Only second-year graduate students may register for the course; it is intended to provide a framework to help prepare for preliminary examinations.

Fall POLS2970 S01 11951 “To Be Arranged” (S. Krause)

2971 Preliminary Examination Preparation
An independent study directed by a tenure-line faculty member of the Department of Political Science. Only second-year graduate students may register for the course; it is intended to provide a framework to help prepare for preliminary examinations.

Spr POLS2971 S01 23661 “To Be Arranged” (S. Krause)

2975 Field Survey and Research Design
An independent study directed by a tenure-line faculty member of the Department of Political Science. Only third-year graduate students may register for the course; it is intended to provide a framework for producing a formal research design modeled on the dissertation prospectus. Instructor’s permission required.

Fall

2976 Field Survey and Research Design
An independent study directed by a tenure-line faculty member of the Department of Political Science. Only third-year graduate students may register for the course; it is intended to provide a framework for producing a formal research design modeled on the dissertation prospectus. Instructor’s permission required.

Spr

2980 Individual Reading and Research
An independent study course directed by a tenure-line faculty member in the Department of Political Science. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor’s permission required.

Fall; Spr

2990 Thesis Preparation
For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing a thesis.

Fall POLS2990 S01 11952 “To Be Arranged”
Spr POLS2990 S01 21399 “To Be Arranged”

2991 Thesis Research and Preparation
Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course.

Fall; Spr

Portuguese and Brazilian Studies
(Primarily for Undergraduates)

3010 Elementary Portuguese
Designed for students with little or no preparation in the language. Stresses the fundamental language skills of understanding, speaking, reading and writing. Aspects of Portuguese and Brazilian culture are also presented. Uses a situational/natural approach that emphasizes communication in Portuguese from the very first class. A year course; only in exceptional circumstances is credit given for one semester alone.

Fall POBS0100 S01 10519 MW 2:00-2:50 & TTh 1:00-2:20(10) (P. Sobral)

3011 Intensive Portuguese
A highly intensive course for students with little or no preparation in the language. Stresses the fundamental language skills of understanding, speaking, reading, and writing. Aspects of Portuguese and Brazilian culture are also presented. Uses a situational/natural approach that
emphasizes communication in Portuguese from the very first class. A two-semester sequence in one semester with ten contact hours each week. Carries double credit and covers the equivalent of two semesters. This course should be chosen by students beginning the study of Portuguese as sophomores who would like to participate in the Brown-in-Brazil Program as juniors.

Fall POBS0110 S01 11618 MWF 1:00-1:50 & MWF 10:00-10:50 & TTh 10:30-11:50(03) (P. Sobral)

0200 Elementary Portuguese
Designed for students with little or no preparation in the language. Stresses the fundamental language skills of understanding, speaking, reading and writing. Aspects of Portuguese and Brazilian culture are also presented. Uses a situational/natural approach that emphasizes communication in Portuguese from the very first class. A year course; only in exceptional circumstances is credit given for one semester alone. Prerequisite: POBS 0100.

Spr POBS0200 S01 21231 MW 2:00-2:50 & TTh 1:00-2:20(10) (P. Sobral)

0400 Writing and Speaking Portuguese
Designed to improve the students’ ability in contemporary spoken and written Portuguese. Using such cultural items as short stories, plays, films, videos, newspaper and magazine articles, and popular music, students discuss a variety of topics with the aim of developing good communication skills. Attention also given to developing writing ability. A systematic review of Portuguese grammar is included. Prerequisite: POBS 0200, or POBS 0110, or placement. Conducted in Portuguese. Completion of POBS 0400 is the minimum requirement for participation in the Brown-in-Brazil Program.

Fall POBS0400 S01 10556 MW 12:00-12:50 & MWF 11:00-11:50(04) (P. Sobral)
Spr POBS0400 S01 21232 MW 10:00-10:50 & TTh 10:30-11:50(09) (P. Sobral)

0610 Mapping Portuguese-Speaking Cultures: Brazil
Selected literary and cultural texts that serve as vehicles for a deeper understanding of Brazilian society. Literary materials will be taken from several genres and periods with special attention to contemporary writings. Other media such as film and music will also be included. Considerable emphasis on strengthening speaking and writing skills. Prerequisite: POBS 0400, placement or instructor’s permission. Conducted in Portuguese.

Fall POBS0610 S01 10557 TTh 2:30-3:50(11) (P. Sobral)

0620 Mapping Portuguese-Speaking Cultures: Portugal and Africa
Selected literary and cultural texts that serve as vehicles for a deeper understanding of Portuguese and Luso-African societies. Literary materials will be taken from several genres and periods with special attention to contemporary writings. Other media such as film and music will also be included. Considerable emphasis on strengthening speaking and writing skills. Prerequisite: POBS 0400, placement or instructor’s permission. Conducted in Portuguese.

Spr POBS0620 S01 21233 TTh 2:30-3:50(11) (L. Simas-Almeida)

0720 Racial Politics in Contemporary Brazil (AFRI 0710A)
Interested students must register for AFRI 0710A S01 (CRN 21777).

0810 Belonging and Displacement: Cross-Cultural Identities
Focuses on the representation of immigrants, migrants and other "border crossers" in contemporary literature from Brazil and other countries. How do people respond to the loss of home and the shift to a new culture? Is "going home" possible? How do individuals deal with their dual or triple identities? Piñon, Lispector, Scliar, Rushdie, Salih, Cristina Garcia, V. S. Naipaul and others. Conducted in English. Enrollment limited to 20 first year students. FYS WRIT

Fall POBS0810 S01 10558 TTh 9:00-10:20(08) (P. Sobral)

0970 Tropical Delights (HIST 0970B)
Interested students must register for HIST 0970B (CRN 13532).

(For Undergraduates and Graduates)

1030 Portuguese Stylistics: Advanced Language Study and Creative Writing
An intensive writing course covering basic genres: letter, short essay, diary, short story, and poetry. Students write five pages per week on five different preassigned topics that range over a wide variety of subjects. Exposes students to idiomatic and stylistic writing in a multitude of areas. In class, students read and comment on each other’s writings. Conducted in Portuguese. WRIT

Fall POBS1030 S01 10559 Th 12:00-2:20(10) (L. Simas-Almeida)

1080 Performing Brazil: Language, Theater, Culture
Designed to deepen the students’ understanding of Brazilian culture and society through the performing arts. Students will read a series of plays and respond to them in a variety of ways: in writing, verbally, and through performance. The course will include poetry and music as these can also be performed. Throughout the semester students will also be working on creating their own performance pieces. Conducted in Portuguese.

Spr POBS1080 S01 25136 Th 4:00-6:20(16) (P. Sobral)

1210 Afro-Brazilians and the Brazilian Polity (AFRI 1210)
Interested students must register for AFRI 1210 S01 (CRN 12833).

1500 Topics and Themes in Portuguese and Brazilian Literatures
Topics will vary from semester to semester.

1500E Contemporary and Brazilian Fiction: New Paths and New Perspectives
Selected prose narratives from the 1970s to the present are read with the aim of identifying new paths and perspectives in contemporary Brazilian literature and culture that challenge traditional literary and cultural hierarchies as well as canonized aesthetics. Milton Hatoum, João Gilberto Noll, Caio Fernando Abreu, Marilene Felinto, Sônia Coutinho, Roberto Drummond, Sérgio Sant’Anna, Rubem Fonseca, and others. Conducted in Portuguese.

Fall POBS1500E S01 15380 Th 4:00-6:20(13) (N. Vieira)

1600 Topics and Themes in Portuguese and Brazilian Cultures and Civilizations
Topics will vary from semester to semester.

1600A Afro-Luso-Brazilian Triangle (AFRI 1020C)
Interested students must register for AFRI 1020C S01 (CRN 21770).

1600D Portuguese Discoveries and Early Modern Globalization
Explores the political, commercial, military, cultural and social dimensions of the Portuguese presence in Africa, Asia and America, 1415-1808. Examines different phases in the context of geographical regions, subsequently integrating the different regions into a multi-continental, multi-oceanic, global system. Emphasizes European/non-European contacts and interactions. Conducted in English.

Spr POBS1600D S01 23936 ‘To Be Arranged’

1600E Europe and the Indian Ocean (HIST 1950E)
Interested students must register for HIST 1950E S01 (CRN 12272).

1600G From Morocco to China (HIST 1950F)
Interested students must register for HIST 1950F S01 (CRN 21576).

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
1600Q Perceptions of the Other and Ethnographical Writing in Early Modern Portugal
Interested students must register for HIST 1970S S01 (CRN 15487).

1600V Gender and Sexuality in Brazil (HIST 1974L)
Interested students must register for HIST 1974L S01 (CRN 24138).

1600W Science and Technology Policy in the Global South (PPAI 1701G)
Interested students must register for PPAI 1701G S01 (CRN 14715).

1670 History of Brazil (HIST 1670)
Interested students must register for HIST 1670 (CRN 11938).

1720 Literacy, Culture, and Schooling for the Language Minority Student
Focuses on increasing awareness of the intersection of language and literacy, the sociocultural influences on literacy development, and the application of diverse strategies that support the acquisition of second-language literacy. Combines a theoretical exploration of literacy processes and methodological implications with a clinical requirement of four hours weekly in a second-language field-teaching practicum. Conducted in English. Enrollment limited to 20.
Spr POBS1720 S01 25137 F 3:00-5:20(15) (S. Smith)

1750 Language, Culture, and Society
Investigates the meanings of language, culture, and society and the interrelationship among them. Examines the functional and dysfunctional uses they can play in public education, particularly from the public school administrators' and teachers' viewpoints. Explores concerns directly related to the nature, quality, and future of English-as-a-Second-Language programs. Reflective activities, lectures, simulations, case studies, role plays, and small group discussions. Conducted in English.
Fall POBS1750 S01 15381 T 4:00-6:20(13) (M. Pacheco)

1800 Concentration Seminar in Portuguese and Brazilian Studies
An interdisciplinary seminar intended primarily for junior and senior concentrators in Portuguese and Brazilian Studies, but open to nonconcentrators and graduate students with consent of the instructor. May be repeated for credit with content changed. Conducted in Portuguese.

1800E The Brazilian Puzzle: Confronting the Post-Colonial Legacy
Brazilian intellectuals have often attempted to understand and explain the challenges in modern Brazilian society (political, economic, racial, educational) by pondering Brazil's Iberian roots and assessing the legacy of Portuguese colonialism. Manuel Bonfim, Sérgio Buarque de Holanda, Paulo Prado, Gilberto Freyre, Vianna Moog, Caio Prado, Celso Furtado, Paulo Freire, Oswald the Andrade, Roberto DaMatta. Attention to film, music and the visual arts. Conducted in Portuguese.
Spr POBS1800E S01 23931 W 3:00-5:20(14) (L. Valente)

1970 Reading and Guided Study
Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor's permission required.
Fall; Spr

1990 Research and Preparation of Honors Projects
This independent study course is designed for students working on honors projects. Written permission of the concentration advisor (Prof. Sobral) is required. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor's permission required. Not Open to: First Year Students, Sophomores, Juniors. Fall; Spr

2010 Foundations of Bilingual Education
Topics will vary from semester to semester.

2010A Language Theory and Curriculum Development
Focuses on the application of language theory, methodology, and curriculum development procedure for classes enrolling English language learners. Participants focus on setting appropriate goals and objectives aligned with learning standards and develop appropriate curricula in several subject areas. Conducted in English.
Spr POBS2010A S01 25138 T 4:00-6:20(16) (M. Pacheco)

2020 Problems and Current Issues in Bilingual/ESL Education
Topics will vary from semester to semester.

2020E Research Seminar in ESL Education
Focuses on preparing students to conduct qualitative research in diverse educational settings. As a final project, students develop a comprehensive framework for a self-designed study. Conducted in English.
Fall POBS2020E S01 15382 Th 4:00-6:20(13) (A. Becker)

2500 Topics and Themes
Topics will vary from semester to semester.

2500F Tales of the "Sertão"
The reality and mythology of the "sertão" have long been a source of inspiration for Brazilian writers, visual artists, and filmmakers. This seminar considers the transformations of the "sertão" motif since the second half of the nineteenth century. Fiction by José de Alencar, Euclides da Cunha, Graciliano Ramos and João Guimarães Rosa. Films by Glauber Rocha and Sandra Kogut. Conducted in Portuguese.
Fall POBS2500F S01 15383 W 3:00-5:20(14) (L. Valente)

2505K Senses and Sensibilities in the Nineteenth Century Portuguese Novel
The works to be read are representative of the main literary trends in 19th century Portuguese literature. They will be analyzed with a focus on literary aesthetics, but also on meanings (or senses), both culturally and personally, by exploring the textual construction of emotions, i.e., the engagement of sensibilities in the written word. Authors to be studied include Almeida Garrett, Camilo Castelo Branco and Eça de Queirós. Conducted in Portuguese.
Fall POBS2505K S01 15384 M 3:00-5:20(13) (L. Simas-Almeida)

2600 Topics and Themes
Topics will vary from semester to semester.

2600M The Word in the Dark: Passion, Quest and Identity in the Universe of Clarice Lispector
This seminar will examine the major novels, short story collections, and crônicas by the Brazilian writer Clarice Lispector and analyze the development of her literary voice and her unique use of language. Reading her work through and beyond the existential, feminist and poststructuralist views manifested in the best critical and theoretical analyses of her work, this seminar will focus especially upon her passionate struggle with language as well as her genre-breaking narratives, alongside her ontological quest for narrative subjectivity. Seminar presentations and papers will explore these issues with the aim of understanding Clarice's spiritual and philosophical impulses as well as her original linguistic contribution to Brazilian and World Literatures. Conducted in Portuguese.
Spr POBS2600M S01 25139 F 11:00-1:20(03) (N. Vieira)

2970 Preliminary Examination Preparation

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
180 / Psychology see Cognitive, Linguistic, and Psychological Sciences

For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing for a preliminary examination.

Fall POBS2970 S01 11237 'To Be Arranged'
Spr POBS2970 S01 21234 'To Be Arranged'

2980 Reading and Guided Study
Reading in Portuguese language, literature, civilization, and bilingual studies. Conducted via Portuguese readings and discussions. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor's permission required.
Fall; Spr

2990 Thesis Preparation
For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing a thesis.

Fall POBS2990 S01 11256 'To Be Arranged'
Spr POBS2990 S01 21235 'To Be Arranged'

Psychology see Cognitive, Linguistic, and Psychological Sciences

Public Policy and American Institutions

(Primarily for Undergraduates)

0100 Introduction to Public Policy
An overview of policymaking and policy analysis in the contemporary United States. The course begins with an examination of traditional justifications for government action. We will then examine the discipline of policy analysis that has arisen to design and evaluate public policies. We will also consider critiques of the rational method and ask questions about how policy expertise fits into the political system. The course ends with classic works on organizations and implementation. Not open to graduate students.

Fall PPAI0100 S01 15804 TTh 9:00-10:20(08)

0700 First Year Seminars
These seminars are reserved for First Year Students. Enrollment is limited to: 20. FYS

0700I Examining Social Policy Issues through Contemporary Fiction
This course examines how contemporary novelists are addressing poverty, homelessness, mental illness, race relations, domestic abuse, and other important social issues. Students will employ a "problem definition" framework to consider the way that novels "typify" social problems by making claims about their scope, severity, and causation, as well as the attributes of "afflicted" groups and individuals.

Sum PPAI0700I S01 60319 MW 9:00-1:00 (D. Rochefort)

0700J Comparative Policies: Analyzing Policy Making Around the Globe
Enrollment limited to 20 first year students. FYS

Fall PPAI0700J S01 15803 W 3:00-5:20(14) (R. Weitz-Shapiro)

(For Undergraduates and Graduates)

1200 Policy Analysis and Program Evaluation
Broad overview of public policy analysis and program evaluation with emphasis on methodological issues involved in the analysis and assessment of government programs. Illustrations are drawn from a variety of substantive policy areas. Prerequisite: POLS 0100, and POLS 1600 or EDUC 1110 or SOC 1100 or ECON 1620, or written permission of instructor.

Spr PPAI1200 S01 20414 Th 4:00-6:20(16)

1700 Research Seminar in Public Policy
Enrollment limited to: 20. Instructor’s permission required.

1700A Issues Facing Our Cities
This course is designed to provide students with an understanding of the nature and causes of urban problems, and of some of the solutions that have been designed to address them. The course will begin by exploring urban problems such as poverty, homelessness, and crime. It then will review and evaluate different public and private responses designed to address them. Instructor’s permission required. Enrollment Limited to 20.

Fall PPAI1700A S01 14135 Th 4:00-6:20(13)

1700E American Housing Policy
Examines U.S. public and private sector policies that affect the provision and distribution of housing to the American population. We consider the national, state, local and private sources of housing policies, the historical development of such policies, and some of their most significant consequences, including home ownership, urban sprawl, income and racial segregation, and homelessness. Comparisons with other systems will be made. Instructor’s permission required. Enrollment limited to 20.

Fall PPAI1700E S01 15801 F 3:00-5:20(15)

1700F Economics and Public Policy
An economic analysis of major social programs in the United States. Topics include the possibility of market failure in the private sector, the redistribution of income, and incentive effects created by the programs. Specific policy issues to be examined are welfare reform, Medicaid, school finance reform, and the Earned Income Tax Credit (EITC). Enrollment Limited to 20.

Spr PPAI1700F S01 20418 Th 9:00-11:20(08) (B. Knight)

1700J GIS and Public Policy
An introduction to the theory and practice of social science Geographic Information Systems (GIS) as applied to public policy analysis. Topics include: the geographical basis of policy issues, spatial mapping, and the use of ArcView software to study policy problems. Instructor’s permission required. Enrollment Limited to 20.

Spr PPAI1700J S01 20419 MW 8:30-9:50(02)

1700R Urban Revitalization: Lessons from the Providence Plan
Explores policy issues facing cities today and examines how the public, private, and nonprofit sectors have mobilized in selected cities to address these issues. Topics include jobs and economic development, education, public safety, and regional approaches. Focuses on The Providence Plan, a joint city-state revitalization initiative designed to address the problems of urban poverty. Comparisons with similar programs in other cities. Instructor permission required. Enrollment limited to 20.

Fall PPAI1700R S01 10593 T 6:00-8:20 PM(12) (P. McGuigan)

1700T Good Government
An applied ethics course specifically for students with backgrounds in Public Policy, it will emphasize the primary themes of good government: openness, deliberation, and integrity. Students will develop an essay on good government and do research for case studies of ethical dilemmas involving public servants. Prerequisite: POLS 0100 (or equivalent). Instructor permission required. Enrollment limited to 20.

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
1700V Nonprofit Organizations
Contemporary nonprofits and their role in community building and shaping public policy are central to this course. Topics include how strong coalitions impact housing, welfare and children's policy, organizing empowered communities, the influential and engaged donor and building the value of nonprofits. Case studies will be featured and new nonprofit models will be conceptualized to strategically address critical human need. Enrollment limited to 20 juniors, seniors, and graduate students concentrating in Public Policy. Instructor's permission required.

Spr PPAI1700V S01 20448 W 9:00-11:20(02) (W. Allen)

1700Y Crisis Management
Introduces future policymakers to the multifaceted decision-making process in which governments, businesses, advocacy organizations, and the public are thrust into the throes of a policy crisis. Various crisis management theories, key stakeholders in a crisis situation, and the positive and negative effects of various strategies are analyzed. Enrollment limited to 20 junior and senior concentrators in Public Policy. Instructor's permission required.

Fall PPAI1700Y S01 14721 W 10:00-12:20(03) (M. Luong)

1701D Aging and Public Policy: The Impact of an Aging Society on Public and Private Sector Organizations
A "silver tsunami" is coming. Soon 20% of US residents will be over the age of 65. Governmental policy makers and business leaders are scrambling to adapt as the aging population reshapes the demand for services and products and threatens to unravel the social safety net. This course will investigate the aging wave, analyze its impact on both private and public organizations through case study review, and consider implications for future management and policy. Emphasis will be on "social entrepreneurship" - practical solutions and their implementation within organizations. Enrollment limited to 20, preference given to graduate students, public policy concentrators, and seniors.

Fall PPAI1701D S01 13737 M 6:00-8:20 PM(18) (S. Gresham)

1701G Science and Technology Policy in the Global South
Using theoretical ideas and empirical examples, this seminar explores from a variety of perspectives the relationships among science, technology, society, and public policymaking in the Global South. Bridging public policy and science studies, the seminar introduces a more internationalized perspective on science and technology governance, and enhances capacity for effective policymaking practice. Students will be graded on three writing assignments; participation in a web-based roundtable with counterparts in Brazil, South Africa and/or India; and class participation. Enrollment limited to 20 junior/senior Public Policy concentrators; others welcome with instructor's permission.

Fall PPAI1701G S01 14715 TTh 10:30-11:50(09) (G. Augusto)

1701H Congressional Leadership, Parties and Public Policy
Focuses on the Congressional leadership, parties in Congress and their impact on political interactions, and public policy. The course will examine the relationship between the leadership in the Congress and the powerful elements in the House and Senate such as committee chairmen and the party caucuses as well as the media and lobbyists. Emphasis is on the decades long trend toward greater political polarization and its impact on the ability of the institution to respond effectively to address critical national priorities such as the federal debt, health reform immigration, nuclear proliferation and global warming. Enrollment limited to 20 juniors, seniors and graduate students.

Fall PPAI1701H S01 14851 F 10:00-12:20(03) (R. Arenberg)

1970 Independent Reading and Research
Supervised reading or research. Specific program arranged in terms of the student's individual needs and interests. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor's permission required.

Fall

1971 Independent Reading and Research
See Independent Reading And Research (PPAI 1970) for course description. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor's permission required.

Spr

1990 Public Policy Colloquium
An advanced two-semester research seminar for senior honors candidates in the public policy and American institutions concentration. Participants jointly consider strategies appropriate to researching and writing a senior paper before proceeding to individual research on topics they choose. Each participant is required to present a summary of his or her work to the colloquium. Instructor's permission required.

Fall PPAI1990 S01 10596 W 12:00-1:30(12) (R. Cheit)

1991 Public Policy Colloquium
See Public Policy Colloquium (PPAI 1990) for course description. Instructor's permission required.

Spr PPAI1991 S01 20723 W 12:00-1:30(05) (R. Cheit)

2000 Institutions and Policy Making
Studies how political, social, and economic institutions structure policymaking. Covers a variety of policy areas such as education, health care, technology policy, welfare, and social policy.

Fall PPAI2000 S01 10597 T 9:00-11:20(08) (S. Moffitt)

2010 Economics and Public Policy
Examines issues in government spending and tax policy. Conceptual topics include the normative assignment of responsibility with federal systems and the equitable distribution of income. Specific policy applications are covered.

Spr PPAI2010 S01 20451 TTh 1:00-2:20(10)

2020 Public Budgeting and Management
Explores how organizations use budgets and management tools to achieve broader social, economic, and political objectives. It is designed to show how these techniques can be used to improve organizational performance.

Fall PPAI2020 S01 10598 MW 8:30-9:50(02) (P. Marino)

2030 Statistics
Covers social and economic statistics and their role in public policy research. Among the topics explored are descriptive and inferential statistics, measurement, sampling, and multivariate analysis.

Fall PPAI2030 S01 10599 TTh 1:00-2:20(10)

2040 Policy Analysis
Investigates policy analysis and program evaluation with emphasis on assessment of government programs.

Spr PPAI2040 S01 20452 M 3:00-5:20(13)

2130 Organizations and Policymaking
182 / Religious Studies

Graduate seminar exploring how organizational, political and professional cultures shape policymaking and implementation; how policymakers and practitioners acquire policy-relevant knowledge and frame issues for public action; and how policy is made and implemented in complex interactive systems where power is unequal. Draws on instructor's own public policy experience in U.S. and southern Africa. Readings are transdisciplinary, and both U.S. and international. Seminar enhances capacity to think behind policy, and act across boundaries. No prerequisites. Reserved for graduate students in Public Policy and Public Affairs. Advanced undergraduates and graduate students from other departments may apply for permission from the instructor. Enrollment limited to 20.

Fall PPAI2130 S01 13730 W 3:00-5:20(14)  (G. Augusto)

2150 Strategic Communication
Teaches students communication skills for social change, and examines how individuals and organizations frame issues in order to effect change. Instructor's permission required. Enrollment limited to 20.
Spr PPAI2150 S01 23668 M 3:00-5:20(13)  (E. Burke Bryant)

2550 Managing and Leading in Public Affairs
Examines issues related to leading and managing in the realm of public affairs, covering foundation topics such as: honor, ethics, and accountability; management and organizational theory; organizational behavior; managerialism, performance, and strategic management; leadership; personnel management and social equity. Examining tools for effective relationship and networking building, cases will be used to apply concepts learned.
Fall PPAI2550 S01 13107 Th 9:00-11:20(08)  (J. Slattery-Bownds)

2600 Social Science Data Technologies
Covers the applied use of data sources and computer software programs. Its goals are to teach students how to use common software packages and access policy-relevant data.
Fall PPAI2600 S01 10600 T 4:00-6:20(13)  (J. Combs)

2700 Advanced Organizational and Management Strategies
This discussion-intensive graduate-level seminar focuses on a wide range of contemporary theories and practices in organizational and management strategies. Topics include organizational structure and design, communication, culture and diversity, change management, stakeholder relations, long-term strategic planning, as well as workforce development and leadership identification, development and succession strategies. Course assignments include team-developed reports and oral presentations. Open to Public Policy graduate students and to other students by instructor permission. Enrollment limited to 18.
Spr PPAI2700 S01 24784 W 10:00-12:20(03)  (M. Luong)

2750 Mediation, Negotiation, and Arbitration Strategies
This graduate-level seminar is a synthesis of negotiation, arbitration, and mediation theories and practices as applied to public policy professionals. Course topics include interagency negotiation and cooperation, professional and workplace negotiations, agreements in legislative and advocacy environments, using non-governmental bargaining partners, role of government regulators, and international and cross-cultural agreements. Emphasis on analysis of ethical issues and strategies in the planning, formulation, and implementation of negotiated agreements. Enrollment limited to 16. Instructor permission required.
Spr PPAI2750 S01 24785 W 2:00-4:20(07)  (M. Luong)

2800 Internship
Practical job experience in the public, private, or non-profit sector.

Fall PPAI2800 S01 10601 'To Be Arranged'  (J. Slattery-Bownds)
Spr PPAI2800 S01 20455 'To Be Arranged'  (J. Slattery-Bownds)

2900 Research Workshop
Group research projects centering on topics organized by the instructor. Students will be organized into small teams that will undertake research projects such as policy analysis, evaluation studies, organizational assessments, or data projects. Results of these projects will be presented in the seminar.
Spr PPAI2900 S01 20456 T 6:00-8:20 PM(12)  (P. McGuigan)

2980 Graduate Independent Study
Please check Banner for the correct section number and CRN to use when registering for this course.
Fall; Spr

Fall XLIST Courses of Interest to Concentrators in Public Policy
The following courses, listed in other departments, count toward the public policy degree requirements. Please check the course listings of the sponsoring department for times and locations.

Economics
ECON 1110 Intermediate Microeconomics
ECON 1620 Introduction to Econometrics
ECON 1630 Econometrics I

Education
EDUC 1110 Introductory Statistics for Education Research and Policy Analysis
EDUC 1130 Analyzing Education Policy: Lessons from Economics

Political Science
POLS 0100 Introduction to Public Policy
POLS 1600 Political Research Methods

Sociology
SOC 1100 Introductory Statistics for Social Research

Religious Studies
(Primarily for Undergraduates)

0030 The Apocalyptic Imagination
Pending Approval. This introductory course explores the phenomenon of apocalypticism in both the ancient and modern contexts. In anticipation of 2012, we’ll explore the origins and nature of apocalypticism. Beginning with modern apocalyptic thought’s roots in ancient Jewish writings (including the Books of Daniel and Ezekiel), we will explore the socio-historical context of ancient Jewish visionary ascent texts, early Christian apocalypses (including the Book of Revelation) and later interpretations and use of ancient “prophecy” concerning the end of the world. This course includes a close reading of ancient texts and an analysis of the 2012 apocalyptic imagination through popular literature and movies.

Fall RELS0030 S01 15574 MWF 12:00-12:50(12)  (N. Denzey)

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
0055 Modern Problems of Belief
Some say it is impossible to be both a modern person and a religious person. What are the assumptions behind this claim? And what is it about the modern (or postmodern) era that, according to some, has made religion difficult to believe in? These questions will be discussed as we explore the ways religion has been understood in Western culture from the Enlightenment to the present. We will read such influential thinkers as Hume, Kant, Hegel, Kierkegaard, Marx, Nietzsche, Freud, Durkheim, Buber, and Woody Allen. Each figure has left a decisive mark on the way we think about religion. LILE

Spr RELS0055 S01 25382 MWF 2:00-2:50(07) (M. Cladis)

0065 On Being Human: Religious and Philosophical Conceptions of Self
An examination of classic and contemporary views on the nature of human existence. Central themes include human freedom, the relation between reason and emotion, and the signification of personal history and memory. We also ask how conceptions of who we are shape views about how we should live. Sources include religious and philosophical texts as well as recent films. LILE WRIT

Spr RELS0065 S01 25374 MWF 1:00-1:50(06) (T. Lewis)

0071 Believers, Agnostics, and Atheists in Contemporary Fiction (JUDS 0050A)
Interested students must register for JUDS 0050A S01 (CRN 14060).

0080 Gender, Power, God(s)
A comparison of women's and men's practices, experiences and beliefs, focusing on patterns observable in a range of religions. Special attention paid to the ways religions participate in diverse constructions of gender (ideas about masculine and feminine), and how these relate to the construction and exercise of power and authority. Specific traditions and historical periods studied vary from year to year. Examples may include: leadership in African American churches; Buddhist monastics; early Christian asceticism; evangelical Christian organizations; medieval and early modern Christian witchcraft accusations; Hindu devotions for husbands and brothers; the turn to orthodoxy among contemporary Jewish women and men; the mosque movement in contemporary Islam; village kamis in Okinawa (Japan); the Shakers, Zar and Bori possession in North Africa and the Caribbean. DVPS LILE WRIT

Spr RELS0080 S01 25375 TTh 10:30-11:50(09) (R. Kraemer)

0090 Freshman Seminar
Enrollment limited to 20 first year students. FYS

0090B Hindu and Christian Modes of Loving Devotion
Explores two modes of devotion prominent in the medieval West and in medieval and modern India, both centering on the human incarnation of divinity, as Jesus Christ and as Krishna. The first considers the divine as child and plays on the paradox of the omnipotent God of the universe as a seemingly helpless infant. In the second, God is conceived as a lover and erotic passion serves as an image and avenue of religious realization. Enrollment limited to 20 first-year students. FYS DVPS LILE

Fall RELS0090B S01 15956 TTh 1:00-2:20(10) (D. Wulf)

0090E Faith and Violence
Explores the relationship between religious texts and rhetoric and violence. How do sacred texts promote or discourage violence, and how have later religious communities understood and (continue to understand) these texts? While the course will focus mainly on Judaism, Christianity, and Islam, occasional Asian examples will be used. No prerequisites. Reserved for First Year students. Enrollment limited to 20. FYS WRIT LILE

Fall RELS0090E S01 14223 M 3:00-5:20(13) (M. Satlow)

0105 Judaism
Interested students must register for JUDS 0010 S01 (CRN 24833).

0120 The Foundations of Chinese Religions: Mystics, Moralists and Diviners
An introduction to the origins and early development of the indigenous religious thought of China from the oracle bone divination of the Shang Dynasty to the ethical philosophy of Confucianism and the cosmology and mysticism of Daoism. The course will seek to identify and elucidate the basic elements of the distinctive Chinese world view and demonstrate how they have shaped the nature of religious practice and experience and how they have been shaped by them. Works of interpretive scholarship will be used to supplement the primary texts in translation that will form the course. Optional lab section will give first-person experience with the ancient divination practices of the I Ching, Confucian moral psychology, and early Daoist meditation.

Fall RELS0120 S01 15955 TTh 1:00-2:20(10) (H. Roth)

0130 Hinduism
After a brief look at our earliest evidence, we focus on the three most prominent Hindu goals during the last two millennia- enlightenment, righteous action, and loving, often passionate devotion-and the variety of practices undertaken to realize them. These include study, meditation, music, drama, image worship, asceticism, and nonviolence. Attention to issues of gender, caste, and untouchability. DVPS LILE

Fall RELS0130 S01 13541 TTh 9:00-10:20(08) (D. Wulf)

0140 Religion in India
Presents three major religious traditions that have flourished in India-the Hindu, the Buddhist, and the Islamic-and looks more briefly at two others, the Jain and the Sikh. We consider each individually and then study their interaction, exploring such prominent instances of violence and non-violence-both in theory and in practice-as jihad, Gandhian nonviolent resistance, and Hindu Nationalism. DVPS LILE

Spr RELS0140 S01 23483 MWF 10:00-10:50(03) (D. Wulf)

0150 Islam: From Mohammed to 9/11 and Beyond
In this course, the historical origins and development of Islam will be studied in light of the sources and communities that shaped it. Themes to be explored include the central doctrines of Islam as derived from the Qur’an and traditions (sunna), the development of Islamic law (shari’ah) the Shi’i alternative, the growth of Muslim theology, philosophy, and mysticism (Sufism), and controversial issues among contemporary Muslims. WRIT DVPS LILE

Fall RELS0150 S01 10730 MWF 10:00-10:50(03) (N. Khalek)

0190 Japanese Religious Traditions
An introduction to the history of Japanese religion as it developed in the early and medieval periods, with some attention to related modern and contemporary manifestations. The emphasis will be on native (“Shinto”) ideas and practices; major Buddhist teachings; and popular practices such as shamanism and death rituals. Readings include primary texts in translation and selected modern interpretations. No prerequisites.

Spr RELS0190 S01 25376 TTh 1:00-2:20(10) (J. Sawada)

0195 Japan: Nature, Ritual, and the Arts (EAST 0180)
Interested students must register for EAST 0180 S01 (CRN 15947).

0205 Archaeology of Ancient Death (ARCH 0310)
Interested students must register for ARCH 0310 S01 (CRN 25879).

0260 Religion Gone Wild: Spirituality and the Environment

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
A study of the dynamic relation between religion and nature. Religion, in this course, includes forms of spirituality within and outside the bounds of conventional religious traditions (for example, Buddhism and Christianity, on the one hand; ecofeminism and the literature of nature, on the other). Topics in this study of religion, philosophy, and ecology will include religious depictions of nature, humans, environmental justice and environmental degradation. Enrollment limited to 20. Instructor’s permission required. LILE

Fall RELS0260 S01 14224 TTh 2:30-3:50(11) (M. Cladis)

0290 Topics in the Study of Religion

0290F Paul and the Philosophers

This course treats the relation of Paul "the apostle’s" thought to philosophy from two angles. The first half of the course covers modern scholarship that has found philosophical influences on the letters from Cynicism, Stoicism and later Platonism. The second half of the course surveys modern and especially recent philosophers who have used Paul’s thought including Nietzsche, Agamben, Zizek and Badiou. RELS 0400 is recommended. Enrollment limited to 20 first year students. FYL LILE

Spr RELS0290F S01 24470 TTh 2:30-3:50(11) (S. Stowers)

0300 Archaeology of the Bible (ARCH 0445)

Interested students must register for ARCH 0445 S01 (CRN 16022).

0325 Judaism, Christianity and the Bible (JUDS 0530)

Interested students must register for JUDS 0530 S01 (CRN 15667).

0400 New Testament and the Beginnings of Christianity

How and why Christianity emerged in various forms in the ancient Mediterranean. Insights from religious studies, gender studies, literary studies, anthropology, and other fields. Careful critical readings of New Testament books, non-canonical gospels, early Christian letters, ancient apocalypses. Topics include: Jewish contexts; representations of Jesus; Paul and early communities; Christians and imperial Rome; gender constructions; canonization; eventual separation of Christianity and Judaism. Open to all students. LILE WRIT

Fall RELS0400 S01 10731 MWF 11:00-11:50(04) (R. Kramer)

0410 Christianity in Late Antiquity

The communal struggles, personal rivalries, and theological conflicts that shaped Christianity in its formative centuries: heresy and orthodoxy, hierarchy and charisma, gender and class, persecution and martyrdom, paganism and classical tradition, creeds and councils, asceticism and the body, church and state, eastern and western Christianity. Focused in the 2nd through 6th centuries A.D. WRIT

Spr RELS0410 S01 25377 MWF 12:00-12:50(05) (S. Harvey)

0440 The World of Byzantium (CLAS 0660)

Interested students must register for CLAS 0660 S01 (CRN 15953).

0640 Martyrdom and Jihad in the Islamic Tradition

This course examines concepts of martyrdom and holy war ("jihad") and compares it with other monotheistic traditions, Judaism and Christianity. How are war and martyrdom presented in the sacred texts of these traditions? How has Islam idealized and problematized martyr and/or holy warrior in different ways? How have modern religious revivalism and nationalism, appropriated martyrdom and holy war in our time? Course material will include sources in translation, scholarly articles, books & films. WRIT

Spr RELS0640 S01 25378 MWF 11:00-11:50(04) (N. Khalek)

0650 Introduction to Islamic Archaeology (ARCH 0600)

Interested students must register for ARCH 0600 S01 (CRN 15791).

0830 Religion, Reason, and Ethics from Kant to Nietzsche

The nineteenth century witnessed revolutionary transformations in thinking about the power and limits of human reason, the relation between reason and religion, revelation, the role of humanity in creating religion, morality and religion, the significance of history, and the plurality of religions. This course examines major thinkers from this period who continue to shape our own assumptions and reflection. WRIT

Fall RELS0830 S01 15567 MWF 1:00-1:50(06) (T. Lewis)

0910 Music, Drama, and Religion in India

Music, drama, and dance have played central roles in Indian religious life from ancient times. They have expressed and nourished a wide range of devotional emotions toward Hindu deities and functioned as meditative modes of attaining an impersonal state. The seminar explores diverse forms of religious experience produced and enhanced by the aesthetic means of music, drama, and dance. Audiovisual materials provide a sense of these aesthetic-religious performance forms. DVPS LILE

Spr RELS0910 S01 25800 W 3:00-5:20(14) (D. Wulff)

(For Undergraduates and Graduates)

1000 Methods in Religious Studies

Intensive introduction to classical and contemporary theories of religion and the principal methods for the study of religion. Junior seminar for religious studies concentrators. WRIT LILE

Fall RELS1000 S01 10732 M 3:00-5:20(13) (T. Lewis)

1200 The Great Heresy: Egypt in the Amarna Age (ARCH 1635)

Interested students must register for ARCH 1635 S01 (CRN 25880).

1205 Ancient Egyptian Religion and Magic (EGYT 1420)

Interested students must register for EGYT 1420 S01 (CRN 25443).

1215 Ancient Babylonian Magic and Medicine (AWAS 1500)

Interested students must register for AWAS 1500 S01 (CRN 25464).

1225 Rhetors and Philosophers: Intellectual Thought and Sophistic Style in the Ancient World (GREK 1110T)

Interested students must register for GREK 1110T S01 (CRN 15513).

1300 Ancient Christianity and the Sensing Body

Bodily experience and sensory engagement became increasingly important for Christians during their first six centuries. This seminar examines how and why the body and its senses gained worth for ancient Christians as instruments for gaining knowledge of God. Prerequisites: RELS 0110, 0400 or 0410. Enrollment limited to 20. WRIT

Fall RELS1300 S01 15568 TTh 10:30-11:50(09) (S. Harvey)

1320 The Origins of Western Morality

How Greco-Roman and Jewish moral and ethical thought and practices were appropriated and transformed by Christianity. Special attention to Hellenistic philosophy, the Greek version of the Hebrew Bible and Christian writers in the first three centuries CE. Addresses questions about the origins of tensions and conflicts in Western morality and why sexual ethics have been so prominent and so problematic. LILE

Fall RELS1320 S01 13681 TTh 6:30-7:50(12) (S. Stowers)

1335 Sacred Readings: The Bible, Biblical Interpretation, and Victorian Literature (ENGL 1561F)

Interested students must register for ENGL 1561F S01 (CRN 25195).

1350 Paul and the Corinthians

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
One of the earliest documents of the Christ movement, Paul's Corinthian letters are loaded with information about the new movement's social conditions, religious practices and ideas. Gender, men and women; sexual issues, conflicts over religious practices and ideas (e.g., Christ; spirit; resurrection; pneumatic life; sacrificial meals; the "Lord's Dinner"; prophecy); ideals and realities of community are some of the letter's issues. This seminar will introduce students to the text and scholarly debates about its interpretation and use for religious history. Participants will then be able to focus on individually chosen research topics in the context of the seminar's discussion.

Fall  RELS1350  S01  15569  Th 4:00-6:20(13)  (S. Stowers)

1355 Parting of the Ways: The Separation of Judaism and Christianity (JUDS 1981D)
Interested students should register for JUDS 1981D S01 (CRN 25524).

1360 Gnosticism: Studies in Early Christian Diversity
Before the emergence of Christian "orthodoxy," from the second to the fourth centuries, Christianity often adopted unusual modes of expression. This course offers an examination of some of these different forms of Christianity, as Christians attempted to balance issues of self-identity and self-definition with compromise and cultural accommodation. Examining early Christian "heretics" as case-studies, this course will focus on reading second-century texts from the Nag Hammadi Library and learning what we can about the communities that produced them. Prerequisite: one course in New Testament or Christian Origins. If the course is oversubscribed, priority will be given to graduate students and Religious Studies concentrators. Prerequisite: RELS 0400 or equivalent. WRIT LILE
Spr  RELS1360  S01  24146  T 4:00-6:20(16)  (N. Denzey)

1370 Issues in the Philosophy and Theory of Religion
Current issues in the philosophy and theory of religion. Attention to such issues as: concepts of deity and their coherence; arguments about divine existence; nature of religious faith; status of religious experience; the self and immortality; theories about the nature, function, and rationality of religious beliefs and practices, and theories about the phenomenology and veridicality of mystical experiences.

1370A Augustine and Hegel
A theoretical comparison of Augustine of Hippo and G.W.F. Hegel, highly influential thinkers at different turning points in Western history, on various facets of their understanding of religion. Potential themes for comparison include the relationship between Christian faith and philosophy, God and the world, and religion in history and society. WRIT
Spr  RELS1370A  S01  25386  W 3:00-5:20(14)  (T. Lewis)

1420 Earliest Taoist Syncretism
Interested students must register for EAST 1880D S01 (CRN 25350).

1430 Classics of East Asian Buddhism
An opportunity to read and understand the canonical texts of East Asian Buddhism. Through close reading, written analysis, and discussion, participants will become conversant with the major Mahayana Buddhist teachings in their original scriptural or literary articulations. Selected later interpretations may also be considered. All readings are in English translation. Previous study of Buddhism is recommended, but not required. Enrollment limited to 20 students. WRIT
Fall  RELS1430  S01  15571  W 3:00-5:20(14)  (J. Sawada)

1435 The Confucian Mind (EAST 1420)
Interested students must register for EAST 1420 S01 (CRN 25790).

1441 Zen Meditation in China, Korea, and Japan (EAST 1880C)
Interested students must register for EAST 1880C S01 (CRN 15879) and L01 (CRN 15880).

1520 Pilgrimage and Sacred Travel in the Lands of Islam
This seminar focuses on pilgrimage and travel to loca sancta in the Islamic world. We will read travelogues and pilgrimage manuals in translation, and will address theoretical and anthropological studies on the phenomenon of pilgrimage and sacred travel in a variety of geographical and chronological contexts. We will study physical, artistic, and architectural aspect of pilgrimage shrines. Enrollment limited to 20 students.
Fall  RELS1520  S01  15572  W 3:00-5:20(14)  (N. Khalek)

1530 Methods and Problems in Islamic Studies
Examines problems in the professional scholarly study of Islam over the first six centuries of the Classical Period (7th-13th centuries AD). This course will emphasize methodological and source critical issues as they are discussed in contemporary scholarship on how to "do" Islamic studies. As such, students will be equipped to deal with issues such as criticism, historiography, methodology, and scholarly debates in the field. Enrollment limited to 20 students. DVPS LILE

1530B Methods and Problems in Islam: Heresy and Orthodoxy
Orthodoxy is defined as "right belief" while Heresy is just the opposite, but those definitions have always been in tension with society and culture. This course will interrogate history and theory to ask "What are Islamic Orthodoxy and Heresy?" From Islamic Law to who is or is not a "heretic" we will uncover interpretations of religious law, practice, and culture to learn how scholars apply orthodoxy or heresy to disrupt and unsettle notions of what "Islam" was at different moments, and how their interpretations force us to think of new ways to envision the formation of communities. Enrollment limited to 20 students. DVPS LILE
Spr  RELS1530B  S01  25388  M 3:00-5:20(13)  (N. Khalek)

1990 Individual Study Project
Directed reading and research arranged with individual faculty. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor's permission required.
Fall; Spr

1999 Thesis Preparation
Required of seniors in the honors program. Open to others only by permission of the chair of the department. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course. Instructor's permission required.
Fall; Spr

(Primarily for Graduates)

2050 Methods in Ancient History (HIST 2970I)
Interested students must register for HIST 2970I S01 (CRN 25301).

2100 Seminar in Ancient Israel and Judaism

2100F Seminar in Biblical Studies: Ugaritic
Survey of Ugaritic grammar followed by readings in mythic and epic literature (e.g. the Baal Cycle, Kirta, Aqhat) and ritual texts. Prerequisite: Knowledge of the grammar of one Semitic language.
Spr  RELS2100F  S01  25380  M 5:30-7:30(18)  (S. Olyan)

2110 Seminar in Contemporary Religious Thought
Recent topics have included: Duty and Virtue, Historicism and Ethics; History, Tradition, and Morality; Kant's Relation to Modern and Post Modern Theology; Post Structuralism in Liberation Thought; Pragmatism; Recent Conceptions of Natural Law; Religious and Social Theory; Religious Origins of Communitarian Thought.
This seminar investigates the intersection and transformation of religion, democracy, and the environment in German, English, and American Romanticism.
Fall  RELS2110A  S01  15577  M 3:00-5:20(13)  (M. Cladis)

2200  Seminar in Early Christianity
2200D  Christianity in the Late First and Early Second Centuries
An assessment of the evidence for actual early Christian groups and authors, with particular attention to texts such as 1 and 2 Clement, the Shepherd of Hermas, Didache, the Ignatian corpus, as well as canonical texts likely to have been produced in this same period (e.g. Luke and Acts, the Pastoral Epistles, 1 and 2 Peter, etc.). Not open to undergraduates. Competence in Greek required.
Fall  RELS2200D  S01  15578  "To Be Arranged"  (R. Kraemer)

2200P  Esotericism in the Ancient Mediterranean and Earliest Christianity
This seminar will investigate the literary and other secret and revelatory practices of various groups as a context for understanding similar esoteric practices in early Christianity. The literature considered will include Orphic, Pythagorean, later Platonist, and Jewish examples and practices such as allegorical reading, symbolic interpretation and literary prophecy. Open to graduate students only.
Spr  RELS2200P  S01  25389  W 3:00-5:20(14)  (S. Stowers)

2210  Greek Palaeography and Premodern Book Cultures (GREK 2110F)
Interested students must register for GREK 2110F S01 (CRN 25309).

26001  Nietzsche, Foucault, Latour (ENGL 2900K)
Interested students must register for ENGL 2900K S01 (CRN 15446).

2890  Preliminary Examination Preparation
For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing for preliminary examinations.
Fall  RELS2890  S01  10907  "To Be Arranged"
Spr  RELS2890  S01  20697  "To Be Arranged"

2910  Independent Research
The staff is willing to offer independent reading courses in selected areas. See the Instructor for more information. Please check Banner for the correct section number and CRN to use when registering. Instructor’s permission required.
Fall; Spr

2990  Thesis Preparation
For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing a thesis.
Fall  RELS2990  S01  10922  "To Be Arranged"
Spr  RELS2990  S01  20712  "To Be Arranged"

0050C  Illustrating Knowledge (HIAA 0050C)
Interested students must register for HIAA 0050C S01 (CRN 15557).

0130  Critical Reading and Writing II: The Research Essay (ENGL 0130)
Interested students must register for ENGL 0130 S01 (CRN 21070) or S02 (CRN 21071).

0160F  Patterns: in Nature, in Society (GEOL 0160F)
Interested students must register for GEOL 0160F S01 (CRN 14279).

0170  Biotechnology in Medicine (BIOL 0170)
Interested students must register for BIOL 0170 S01 (CRN 11393).

0300B  Environment and Society (SOC 0300B)
Interested students must register for SOC 0300B S01 (CRN 15467).

0455  Coastal Ecology and Conservation (ENVS 0455)
Interested students must register for ENVS 0455 S01 (CRN 14255).

0491  Environmental Science in a Changing World (ENVS 0490)
Interested students must register for ENVS 0490 S01 (CRN 15718).

0510  Problems in International Environmental Policy (ENVS 0510)
Interested students must register for ENVS 0510 S01 (CRN 14636).

1310  International Health: Anthropological Perspectives (ANTH 1310)
Interested students must register for ANTH 1310 S01 (CRN 25576).

1400  Science and Society: Theories and Controversies
What exactly is "science"? How do scientific ideas become knowledge? How does our society, government, and culture understand and respond to science and medicine? The interdisciplinary field of science studies is introduced through exploration of topics that include gender and science, race and science, cultural studies of medicine, and the "science wars." Enrollment limited to 30 sophomores, juniors and seniors; others may enroll with permission of the instructor. WRIT LILE
Fall  SCSO1400  S01  13688  MW 8:30-9:50(02)  (S. Hamdy)

1490  History of Medicine I: Medical Traditions in the Old World Before 1700 (HIST 1490)
Interested students must register for HIST 1490 S01 (CRN 15497).

1491  History of Medicine II: The Development of Scientific Medicine in Europe and the World (HIST 1491)
Interested students must register for HIST 1491 S01 (CRN 25294).

1502H  Information, Discourse, Networks (MCM 1502H)
Interested students must register for MCM 1502H S01 (CRN 15596) and L01 (CRN 15597).

1502X  Race and/as Technology (MCM 1502X)
Interested students must register for MCM 1502X S01 (CRN 25413) and F01 (CRN 25414).

1550  Topics in Science and Society
Seminars devoted to special topics which will vary from year to year. Enrollment is limited to 20. SCSO 1400 is suggested but not required. Written permission of the instructor required. May be repeated for credit.

1550E  Science and Religion
An examination of relationships between science and religion. Topics will include: what is science?, what is religion?, are science and religion necessarily in conflict, or are they independent or perhaps mutually sustaining and complementary institutions?, what is the
importance of developments in science (e.g., cosmology, particle physics, evolutionary theory, cognitive neuroscience) for religious beliefs about deities, human nature, morality, and the place of humans in the world?, how are tensions between science and religion manifested in contemporary cultural debates (e.g., science education, sex education, abortion, cloning, terrorism)? Enrollment limited to 20. SCSO 1400 recommended but not required. Instructor permission required. DVPS LILE

1561H The Brain and the Book: Thinking and Reading in the Victorian Novel (ENGL 1561H) Interested students must register for ENGL 1561H S01 (CRN 25197).

1600 Astronomy Before the Telescope (AWAS 1600) Interested students must register for AWAS 1600 S01 (CRN 15637).

1700 Astronomy, Divination and Politics in the Ancient World (AWAS 1700) Interested students must register for AWAS 1700 S01 (CRN 25458).

1700A Cultural Competence and Ethics (ENVS 1700A) Interested students must register for ENVS 1700A S01 (CRN 11781).

1701G Science and Technology Policy in the Global South (PPAI 1701G) Interested students must register for PPAI 1701G S01 (CRN 14715).

1740 Politics of Food (POLS 1740) Interested students must register for POLS 1740 S01 (CRN 24227).

1900 Senior Seminar in Science and Society This is an advanced seminar that uses a Problem Based Learning style pedagogy to explore real-world problems in STS. To solve assigned problems students will want to explore critical scholarship in areas such as laboratory studies, feminist science and technology studies, the rhetoric and discourse of science and technology, expertise and the public understanding of science. Course is intended for Science and Society senior concentrators, but is open to others with appropriate background. Enrollment limited to 20.

Fall SCSO1900 S01 10650 W 3:00-5:20(14) (C. Bliss)


1960C Gender, Sexuality, and Science (GNSS 1960C) Interested students must register for GNSS 1960C S01 (CRN 24111).

(Primarily for Graduates)

2120D Derrida and Telecommunications (MCM 2120D) Interested students must register for MCM 2120D S01 (CRN 25418) and F01 (CRN 25420).

2130 Organizations and Policymaking (PPAI 2130) Interested students must register for PPAI 2130 S01 (CRN 13730).

2900K Nietzsche, Foucault, Latour (ENGL 2900K) Interested students must register for ENGL 2900K S01 (15446).

Slavic Languages

Czech

(Primarily for Undergraduates)

0100 Introductory Russian Introduction to Russian language and culture. Oral and written communication in Russian; emphasis on the literary and everyday culture of Russia and the former U.S.S.R., including the changes that have reshaped everyday life for citizens of Russia. Five meetings per week, plus use of audio, video, and web materials.

Fall RUSS0100 S01 10990 MWF 9:00-9:50 & TTh 12:00-12:50(02) (L. Debenedette)
110 Intensive Russian
Intensively-paced introduction to Russian culture and language; completes one year of study in one semester (RUSS 0110 = RUSS 0100-0200). Comprehension and use of contemporary Russian; fundamentals of Russian grammar; vocabulary acquisition; focus on oral communication. Introduces aspects of everyday culture of Russia and the former U.S.S.R. Ten to fifteen hours weekly work outside the classroom.

Spr RUSS0110 S01 20728 MTWThF 12:00-12:50 & MWF 10:00-10:50(03) (L. Debenedette)

0200 Introductory Russian
Introduction to Russian language and culture. Oral and written communication in Russian; emphasis on the culture of Russia and the former U.S.S.R., including the changes that have reshaped everyday life for citizens of Russia. Five meetings per week, plus use of audio, video, and Web materials. Prerequisite: RUSS 0100 or RUSS 0250.

Spr RUSS0200 S01 20730 MWF 9:00-9:50 & TTh 12:00-12:50(02) (L. Debenedette)

0250 Introductory Russian in St. Petersburg
Intensive introductory language and culture taught in St. Petersburg, Russia, meeting 15 hours per week. Students develop communicative and cultural competence in Russian, emphasizing 1) culture of everyday life in Russia and 2) life in St. Petersburg. For students without previous study of Russian.

Sum RUSS0250 S01 60249 'To Be Arranged'

0300 Intermediate Russian
Continues development of language proficiency while broadening understanding of contemporary Russian culture via readings in literature and history. Expansion of vocabulary for dealing with conversational topics and review of Russian grammar. Features literary and nonliterary readings in Russian, as well as video and computer resources. Five class meetings per week. Prerequisite: RUSS 0110 or RUSS 0200 or RUSS 0250 or placement by exam.

Fall RUSS0300 S01 10991 MWF 10:00-10:50 & TTh 9:30-10:20(03) (L. Debenedette)

0320 Freshman Seminar
Enrollment limited to 20 first year students. FYS

0320A Dostoevsky's "The Brothers Karamazov" - The Art of the Novel
An in depth analysis of Dostoevsky's last novel as the culmination of his art and thought. Central religious and philosophical themes of the novel, such as the relations of faith to morality, modes of transgression, retribution, and epiphany, the question of theodicy, and the nature of authority. Discussion of Dostoevsky's poetics and of his contribution to the genre of the novel. Readings from literary criticism and from other pertinent literary texts, such as the Bible, Schiller, and Voltaire will also be discussed. In English. Enrollment limited to 20 first year students. FYS

Fall RUSS0320A S01 15836 M 3:00-5:20(13) (S. Evdokimova)

0350 Intermediate language and culture taught in St. Petersburg, Russia meeting 15 hours a week. Development of communicative and cultural competence in Russian, emphasizing 1) descriptive and narrative texts and 2) culture and history of St. Petersburg. Prerequisite: RUSS 0110 or 0200, or equivalent.

Sum RUSS0350 S01 60250 'To Be Arranged'

0400 Intermediate Russian
Continues development of language proficiency while broadening understanding of Russian culture via readings in literature and history. Includes expansion of vocabulary for dealing with conversational topics and review of Russian grammar. Features literary and nonliterary readings in Russian, as well as video and computer resources. Five class meetings per week. Prerequisite: RUSS 0300 or placement by exam.

Spr RUSS0400 S01 20732 MWF 10:00-10:50 & TTh 9:30-10:20(03) (L. Debenedette)

0500 Advanced Russian
Examines selected topics in Russian culture and history as depicted in readings, the media, and Russian and Soviet films. Language work emphasizes increasing facility with spoken Russian and developing writing skills. Includes work on advanced grammar and syntax. Five class meetings per week. Prerequisites: RUSS 0350 or RUSS 0400 or placement.

Fall RUSS0500 S01 10992 MWF 2:00-2:50 & TTh 2:30-3:20(07) (L. Debenedette)

0600 Advanced Russian
Examines selected topics in Russian culture and history as depicted in readings, the media, and Russian and Soviet films. Language work emphasizes increasing facility with spoken Russian and developing writing skills. Includes work on advanced grammar and syntax. Four class meetings per week. Prerequisites: RUSS 0500 or placement.

Spr RUSS0600 S01 20733 MWF 1:00-1:50 & TTh 2:30-3:50(06) (L. Debenedette)

0930 Cultures and Literatures of the Russian and Soviet Empires
Examines in depth various topics that constituted the cultural and literary landscape of the Soviet Union, examining their antecedents in the Russian empire and their reemergence in the post-Soviet world. Topics include: the Caucasus, from Tolstoy to modern Chechnya; Orientalism; the Civil War and Pasternak; Akhmatova and the experience of the totalitarian state.

Fall RUSS0930 S01 10993 Th 4:00-6:20(13) (C. Carey)
Spr RUSS0930 S01 25788 Th 4:00-6:20(16)

0990 The Black Experience in Russia and the Soviet Union
A study of the African-American experience in Russia and the Soviet Union through the prism of autobiographies, biographies, diaries, travel journals, and memoirs from the 18th century to the present, of actors, American Communists, domestic servants, journalists, musicians, poets, political activists, publishers, stage designers, students and writers, including W.E.B. Du Bois, Harry Haywood, Langston Hughes, Paul Robeson and Richard Wright.

Fall RUSS0990 S01 10994 M 3:00-5:20(13) (C. Carey)

(For Undergraduates and Graduates)

1000 Russian Modernism and the Arts
Russian culture in a period of revolutionary upheaval: developments in literature, film, design, visual and applied arts. Avant-garde experimentation and the creation of tradition: primitivism, futurism, constructivism, and other movements in literature and the arts.

Spr RUSS1000 S01 23644 'To Be Arranged'

1050 Russian Culture: From Peter The Great to Putin
An interdisciplinary exploration of Russian cultural history through its literature, art, religion, social and political thought, and film. An examination of a wide range of cultural expressions: religious and civic rituals, values and practices, social customs and popular entertainment. In English.
Fall  RUSS1050  S01  10995  MWF 11:00-11:50(04)  (V. Golstein)

1050  St. Petersburg: A Window on Russia
An interdisciplinary exploration of Russian cultural history through its literature, art, architecture, religion, social and political thought, theater and ballet. Elements of Russian culture will be presented through the prism of the city of St. Petersburg, its history, its urban and cultural landscapes. Regular field trips to museums, theater, and city tours focused on specific themes.

Sum  RUSS1060  S01  60251  'To Be Arranged'

1110  Special Topics in Russian Studies I: Advanced Reading and Conversation
An advanced course recommended for students who are either planning to go or are returning from abroad. Focus on Russian culture as seen through the prism of Russian poetry. Extensive classroom discussion and frequent writing assignments. Prerequisite: RUSS 0600 or written permission.

Fall  RUSS1110  S01  10996  'To Be Arranged'

1120  Special Topics in Russian Studies II: Advanced Reading and Conversation
A continuation of Russian 1110. Examines aspects of Russian culture as manifested in Russian literature. Readings range from fairy tales to contemporary works. Extensive classroom discussion and frequent writing assignments. Prerequisite: RUSS 1110, 1700, or written permission.

Spr  RUSS1120  S01  20735  'To Be Arranged'

1200  Russian Fantasy and Science Fiction
Survey of Russian literature, from fairy tales, utopias, and dream sequences to science fiction, which depict altered states of reality. Readings in English, supplemented with films in March and April. Seminar with emphasis on discussion. Russian concentrators and graduate students expected to cover most of the readings in Russian. Familiarity with Russian literary history is not required.

Spr  RUSS1200  S01  20736  TTh 10:30-11:50(09)  (A. Levitsky)

1250  Russian Cinema
This seminar will provide a chronological overview of Russian cinema from its beginning to the present. The films will be considered against the background of some historical, political, and theoretical readings. The students will also be encouraged to juxtapose Russian and non-Russian films in order to evaluate the place of Russian cinema within a global film culture.

Fall  RUSS1250  S01  15843  'To Be Arranged'  (V. Golstein)

1290  Russian Literature in Translation I: Pushkin to Dostoevsky
Survey of major works of Russian literature of the early and mid-19th century. Authors to be studied include Karamzin, Pushkin, Lermontov, Gogol, Turgenev, Leskov, and Dostoevsky. Lectures and discussion. No knowledge of Russian required. Discussion sections to be arranged.

Fall  RUSS1290  S01  10997  TTh 10:30-11:50(09)  (A. Levitsky)

1300  Russian Literature in Translation II: Tolstoy to Solzhenitsyn
Survey of major works of Russian literature of the late 19th and 20th centuries. Traces the development of Russian literature from realism to symbolism and decadence, from revolutionary experiments to socialist realism and dissent. Authors to be studied include Tolstoy, Chekhov, Sologub, Blok, Mayakovsky, Babel, Olesha, Zamiatin, Bulgakov, and Solzhenitsyn. Lectures and discussion. No knowledge of Russian required. WRIT

Spr  RUSS1300  S01  25671  'To Be Arranged'  (V. Golstein)

1320  Soviet Literature from 1917 to 1953
Survey of Soviet literature in translation from the revolution to the death of Stalin. Includes Russian literature and the literary milieu of the NEP period, literature of the Thirties, and literature written during the Second World War and the postwar period. Texts by Akhmatova, Babel, Blok, Bulgakov, Ivanov, Lavrenyov, Mandelstam, Mayakovsky, Pasternak, Pilnyak, Shklovsky, and Zamiatin.

Fall  RUSS1320  S01  10998  MWF 2:00-2:50(07)  (C. Carey)

1330  Soviet and Post-Soviet Literature (1953 to Present)
A survey of contemporary Soviet and post-Soviet literature in translation from the death of Stalin through the Glastnost era to the present. Includes prose writers and poets as well as women writers and authors from non-Russian republics. Texts by Altmatov, Aksyonov, Bitov, Evtushenko, Ibragimbekov, Iskander, Makine, Makanin, Nagibin, Petrushevskaya, Raspustin, Shukshin, Sokolov, Soloukhin, Solzhenitsyn, Tolstaya, Tironov, Ulitksaya.

Spr  RUSS1330  S01  25789  MWF 2:00-2:50(07)

1810  Tolstoy
Close readings of Tolstoy's major novels (War and Peace and Anna Karenina, in particular) and shorter narratives with special emphasis on his iconoclastic ideas about art, religion, and society. Considers Tolstoy's formal innovation in a broader historical and cultural context. Lectures and discussion. No knowledge of Russian required.

Spr  RUSS1810  S01  25674  TTh 2:30-3:50(11)  (S. Evdokimova)

1820  Dostoevsky
An examination of Dostoevsky's major texts tracing his development as an artist, thinker, and religious visionary. The texts will be considered against the background of literary and cultural history of Dostoevsky's period. No knowledge of Russian required. WRIT

Spr  RUSS1820  S01  25675  TTh 9:00-10:20(08)  (V. Golstein)

1840  Nabokov
The course examines Vladimir Nabokov's major achievements in prose in both Russian and American periods, paying particular attention to the questions of his aesthetics, ethics, and metaphysics. Readings include selected Russian and English short stories and novels, like Invitation to a Beheading, Laughter in the Dark, Bend Sinister, Gift, Pnin, or Lolita, his biographical and critical writings, including his book on Gogol. In English. DVPS LILE

Spr  RUSS1840  S01  25676  TTh 1:00-2:20(10)  (M. Oklot)

1860  Chekhov
Commemorating the hundredth anniversary of the death of the great Russian playwright and short-story writer, this course will examine Chekhov's innovations in the genre of the short story and in modern theater, as well as his ongoing influences in world literature. Themes include the nature of the Chekhovian comic, subversion of the dominant literary and cultural paradigms and myths, representations of gender and sexuality. In English.

Fall  RUSS1860  S01  15844  TTh 2:30-3:50(11)  (S. Evdokimova)

1960  Independent Study
Independent research project on topics related to Russian culture. Enrollment permitted only after the written proposal (instructions in the department office) is submitted to the Concentration Advisor and Chair of the department (deadline: the last day of Add a course without fee period during the semester when the project is undertaken). Please check Banner for the correct section number and CRN to use when registering for this course. Each section limited to 10 students; instructor permission required.

Fall, Spr

(Primarily for Graduates)

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
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2010 Eighteenth-Century Literature
The most important literary currents from the Baroque to early romanticism. Study of style and genre and the development of the literary language.

Fall RUSS2010 S01 15845 W 3:00-5:20(14) (A. Levitsky)

2610 Seminar in Russian Literature

2610C Russian Romanticism
This course will examine the works of Zhukovsky, Batiushkov, Pushkin, Lenormand, Tютчев, Bestuzhev-Martinskii, Odoevsky, and Gogol in the context of Romanticist literary culture. Students will also read works by other European authors associated with Romanticism to elucidate the extent of the adherence of Russian writers to Romanticist aesthetics and philosophy.

Spr RUSS2610C S01 25677 M 3:00-5:20(13) (S. Evdokimova)

2970 Preliminary Examination Preparation
For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing for a preliminary examination.

Fall RUSS2970 S01 10999 'To Be Arranged'
Spr RUSS2970 S01 20738 'To Be Arranged'

2980 Advanced Reading and Research
Only for graduate students. Independent research project on topics related to Russian culture. Enrollment permitted only after the written proposal (instructions in the department office) is submitted to the DGS and Chair of the department (deadline: the last day of Add a course without registration fee period during the semester when the project is undertaken). Please check Banner for the correct section number and CRN to use when registering for this course. Each section limited to 10 students; instructor permission required.

Fall; Spr

2990 Thesis Preparation
For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing a thesis.

Fall RUSS2990 S01 11000 'To Be Arranged'
Spr RUSS2990 S01 20739 'To Be Arranged'

Slavic
(For Undergraduates and Graduates)

1760 Film, Theater and Culture of Poland
This course explores Polish twentieth-century culture with a special stress on literature, theatre, film, visual arts, and architecture. After the examining of the romantic roots of Polish twentieth-century culture through the works of two famous Polish poets, Mickiewicz and Krasinski, the course will explore the works of representative Polish modernist and avant-garde artists such as Przybyszewski, Wyspianski, Witkacy, Schulz, or Gombrowicz. The third part of the course is devoted to the Polish contemporary theatre and film, including the workshops of the two legendary European theaters Cricoteka and Gardzienne, and films of the famous Polish Film School. In English.

Sum SLAV1760 S01 60356 'To Be Arranged'

1770 Prague and St. Petersburg: A Tale of Two Cities
An exploration of the mythopoetic universe of Prague and Petersburg through literature and film. Both - one, ancient, the other "modern" - served at one point of the historical continuum as capitals of multinational empires (Holy Roman and Russian), yet also as loci of national identity, both factors thus contributing to their respective enigmatic states. The course will attempt to identify these enigmas and discuss their possible futures in the global polity and culture. Enrollment limited to 20.

Spr SLAV1770 S01 25678 W 3:00-5:20(14) (A. Levitsky)

1780 Economies and Politics of Transition
The course identifies, describes, and explains major social, economic and political processes that have started in the late 1980s and early 1990s with the collapse of the communist systems in Poland and other East-Central European countries. The transition from the centrally planned to free market economies and the present challenges and problems associated with joining the European Union will be discussed in the context of the political and social changes and related to specific historical conditions. The course puts a special stress on Poland, which in turn will allow students to develop models of patterns of transition applicable to the entire region of East-Central Europe. In English.

Sum SLAV1780 S01 60357 'To Be Arranged'

1790 Eastern European Literature
This course will examine the selected major works of East European literature, theatre, and film in the context of West European and Russian literatures, giving special attention to the Polish writer, Witold Gombrowicz and the Czech writer, Milan Kundera. The works included in this course will be analyzed, first of all, as artistic responses to the crisis of cultural identity inflicting the whole Europe of the twentieth century. Other included authors: Schulz, Babel, Broch, Witkacy, Platonov, Ungar, Leppin, Kantor, Kiš, Milosz. In English. DVPS LILE

Fall SLAV1790 S01 15944 M 3:00-5:20(13)

1890 Slavic Contributions to Literary Theory
The course focuses on the tension in Russian literary theory between the formalist (Shklovskii, Tynianov) and cultural or existential approaches (Bakhtin). Another issue addressed by the course is the critical genealogy of contemporary literary theory, which finds many of its sources in Formalist Theory and the Bakhtinian approach to literature. In English.

Spr SLAV1890 S01 25679 'To Be Arranged' (M. Oklot)

1950 Independent Study
Independent research project on topics in Slavic Studies. Enrollment permitted only after the written proposal (instructions in the department office) is submitted to the Concentration Advisor and Chair of the department (deadline: the last day of Add a course without registration fee period during the semester when the project is undertaken). Please check Banner for the correct section number and CRN to use when registering for this course. Each section limited to 10 students; instructor permission required.

Fall; Spr

1970 Topics in the Cultural History of the Slavic People

1970B Spirituality in Russian Literature
Spirituality -- understood as the intimate, spiritual life of individuals as opposed to corporate expressions of religiosity -- occupies a large place in Russian national life, and its exploration has become the central issue of many famous literary texts. The course will examine selected Russian texts -- from symbolism to postmodernism -- from the perspective of the spiritual sensibility that combines atheism, Russian Orthodoxy, Gnosticism, and sectarian or unconscious religiosity. Authors to be studied include: Nabokov, Sologub, Rozanov, Erofeev, Sorokin and Pelevin. In English.

Fall SLAV1970B S01 15945 W 3:00-5:20(14)

1981 Independent Research in the Slavic Language(s)
Independent research on various topics in Slavic cultures. Reading, discussion, research must be done in the chosen Slavic language

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
Sociology

(Primarily for Undergraduates)

0010 Perspectives on Society
An introduction to the discipline of sociology from a macro perspective. Students explore how different sociological paradigms lead to contrasting understandings of capitalism, the state, class, race, and gender. In addition, students learn new ways to think about social problems in the United States, in the developing world, and in world history.

Spr SOC0010 S01 24096 MWF 1:00-1:50(06) (N. Luke)

0020 Perspectives on Social Interaction: An Introduction to Social Psychology
An introduction to the discipline of sociology examining the individual in social situations. Explores the social development of the person, the development of interpersonal relationships, and the problems of integrating the individual and social system. For each area, the personal and situational factors that bear upon the issue are investigated. The objective is to deepen understanding of the behavior of people in a social context.

Fall SOC0020 S01 14169 MWF 2:00-2:50(07) (G. Elliott)

0111 Social Change, Dictatorship, and Democracy
Why are some countries more democratic than others? What effects have industrialization and colonization had on developing world democracies? This class probes those questions from a comparative and sociological perspective. We will explore the relationship between political regimes and socioeconomic factors, like class relations, state-led development, and racial and ethnic tensions. We will look at the contrasting political and social trajectories of European nations, the United States, East Asia, and Latin America in particular, using historical texts, sociological theory, novels, and films. This course will be of interest to student concentrators in the social sciences, particularly sociology, political science, anthropology, and economics, as well as students interested in Latin America and Asia. A foundational course in any social science field is recommended, and for high school students, AP U.S. History or AP Comparative Politics is required.

Sum SOC0111 S01 60333 MWF 1:00-3:40 (C. Villegas)

0130 American Heritage: Democracy, Inequality, and Public Policy
America professes equality but exhibits many forms of inequality in schools, race relations, and income. An examination of contrasting elements of American society and a review of the role social science plays in public debate. To illuminate the debates, key topics, such as welfare, immigration, affirmative action, and environmental equity are considered.

Fall SOC0130 S01 14171 MWF 2:00-2:50(07) (M. White)

0150 Economic Development and Social Change
Emphasis on understanding the interrelations among economic, political, and cultural aspects of change in developing countries. The experience of currently developing nations is contrasted to that of nations which industrialized in the 19th century. Compares the different development strategies which have been adopted by currently developing nations and their consequences for social change.

Fall SOC0150 S01 10447 MWF 12:00-12:50(12) (P. Henry)

0170 The Family
The state of the contemporary family generates debate within and beyond sociology. That debate is considered by examining different definitions of family, changing gender roles within the family, and the
family in cross-cultural context. Special issues include new family forms, such as gay and lesbian families and biological and step-parenthood, as well as changing patterns of work and housework.

Spr SOC0170 S01 24515 MWF 10:00-10:50(03) (C. Spearin)

0200 Population and Society
Introduces some of the major social issues relating to population size, growth, and change in industrialized and developing nations. Mortality, fertility, and migration levels and trends are analyzed. Also considers contemporary issues, such as HIV/AIDS epidemic, population aging, U.S. immigration, and national and international population policy debates.

Spr SOC0200 S01 23670 MW 8:30-9:50(02) (N. Luke)

0210 The City: An Introduction to Urban America
Interested students must register for URBN 0210 S01 (CRN 10883).I

0240 The Nature of Community
Pending Approval. No description available.

Spr SOC0240 S01 25242 MWF 1:00-1:50(06) (A. Dill)

0300 First Year Seminars
These seminars, limited to 20 freshman only, are intended to introduce students to sociology (no background in sociology is required.) Seminars provide students an opportunity to read, discuss, and produce sociological work in an environment that allows for significant interaction with the teaching faculty. These courses carry full credit in the sociology concentration program. Enrollment limited to 20 first year students. FYS WRIT

0300B Environment and Society
This course examines the intersection between the environment and social structures and institutions. It is centered around environmental sociology, environmental justice, and environmental health. We cover climate change, risk perception and risk communication, environmental consciousness and environmental movements, government regulation, lay-professional differences in scientific knowledge, and various forms of toxic contamination and environmental disasters. Readings are very broad, including work of sociologists, physicians, biologists, journalists, epidemiologists, activists, toxicologists, lawyers, and anthropologists. This course has a required service learning component. Enrollment limited to 20 first year students. FYS WRIT

Fall SOC0300B S01 15467 W 3:00-5:20(14) (P. Brown)

0300F Unequal From Birth: Child Health From a Social Perspective
Why are the children of immigrants so healthy? How do experiences in families, schools, neighborhoods and the health care system produce unequal health? What are the consequences of health for the families, schools, neighborhoods and the health care system produce sociological work in an environment that allows for significant interaction with the teaching faculty. These courses carry full credit in the sociology concentration program. Enrollment limited to 20 first year students. FYS WRIT

Fall SOC0300F S01 14185 W 3:00-5:20(14) (M. Jackson)

0300G Populations in Danger
Examines populations confronted with dangerous social, economic, political, or health crises. These include small Amazon farmers in situations of environmental degradation, Catholics and Protestants in Northern Ireland in economic and social conflict and under peace agreement, Israelis under threat of random attack with neighbors who demand Israel’s extinction, Palestinians under Israeli occupation with a largely powerless and corrupt Palestinian Authority, South Africans under HIV/AIDS pandemic, and undocumented Dominican immigrants in Providence. The seminar will include readings on these populations in danger, lectures by internationally known experts, student presentations and class discussion, and three short essays. Enrollment limited to 20 first year students. FYS WRIT

Spr SOC0300G S01 25233 M 3:00-5:20(14) (D. Hogan)

0300H Organizations and Disasters: Living With the Reality of Really Big Mistakes
Enrollment limited to 20 first-year students. FYS WRIT

Spr SOC0300H S01 25243 M 3:00-5:20(13) (M. Fennell)

0300J Becoming Adults: Adolescent Transitions to Adulthood
Adolescence and early adulthood is a critical period in our lives. During this time we experience a number of major life events that mark the transition into adult roles and relationships, and that are of major consequence for the rest of our lives. We leave school, start working, form romantic relationships, begin sexual activity, leave home, become financially independent, get married, and start having children. This seminar explores how adolescent transitions are studied, how they compare across different national contexts, and how individual, family, and community factors affect the type and timing of different transitions. Enrollment limited to 20 first year students. FYS WRIT

Fall SOC0300J S01 15477 Th 4:00-6:20(13) (D. Lindstrom)

0300K To Be Announced
Enrollment limited to 20 first year students. FYS WRIT

Spr SOC0300K S01 25244 M 3:00-5:20(13) (S. Short)

(For Undergraduates and Graduates)

1010 Classical Sociological Theory
Why do we follow social rules and conventions? And how is social change – that is, the making of new rules and expectations – possible? When we respond to rules, do we act as free-willed individuals, or do we follow social structures we have no control over? These questions have motivated generations of sociologists, but many of the arguments have been already developed by the four "forefathers" of sociology: Karl Marx, Max Weber, Emile Durkheim, and Georg Simmel. Looking at the transformations around them – the rise of capitalism, the modern nation-state, rational bureaucracy, the metropolitan, the decline of religion, and much more – they developed arguments that allow us to better understand ourselves, our actions, and the contemporary political, economic and social transformations around us. First-year students require instructor permission. WRIT

Spr SOC1010 S01 25234 TTh 2:30-3:50(11) (N. Chorev)

1020 Methods of Social Research
This course introduces students to the frameworks and methods of conducting sociological research – from both a qualitative and quantitative perspective. The aim is that students develop the skills to ask and answer interesting and important questions about sociological phenomenon. The focus is on designing and executing research, from identifying an interesting question and reviewing the relevant literature, to collecting and analyzing data, to drawing reliable inferences and presenting meaningful results. There is a heavy focus on reading and discussing academic research and working in research teams. By the end of the semester students will complete their own research projects.

Spr SOC1020 S01 25235 MWF 12:00-12:50(05) (E. Bridwell-Mitchell)

1030 Organizational Theories of the Public and Private Sectors
This course is a general introduction to the study of organizations from a macro-sociological perspective. Rather than examining the attitudes,
actions, and interactions of individuals inside organizations, this course focuses on organizational systems and structures, their environments, and their significance in society. Topics include social, cultural, political and economic processes in organizations, issues of organizational learning, change and life cycles, inter-organizational dynamics such as alliances, and organizational networks, and topics related to power, equity and diversity.

Fall SOC1030  S01  10456  MWF 1:00-1:50(06)  (E. Bridwell-Mitchell)

1050 Methods of Research in Organizations
An introduction to the various methods used by social scientists to study organizations and to the skills needed by managers and administrators to soundly evaluate problems and assess performance within organizations. Explores both qualitative and quantitative methods. Students gain experience in developing research questions and linking those questions to appropriate research designs.

Fall SOC1050  S01  15468  TTh 10:30-11:50(09)  (M. Fennell)

1060 Leadership in Organizations
The goal is mastery of the theoretical and practical aspects of leadership. In addition to seminars, readings and papers, students form teams. Each tackles a case where they interview the actors in the case, formulate advice on the leadership approach, appropriate, create a website and organize a class discussion.

Spr SOC1060  S01  25776  TTh 6:30-7:50(12)  (O. Shraga)

1080 Groups in Organizations
Teamwork has become increasingly popular in organizations. Whether structured into the organizational makeup, or temporarily established around specific projects, teams are a critical competency of organizations. They are considered an effective performance unit, and expected to efficiently cope with the fast changes and demands of today's corporate environment. However, deriving the full benefits from teamwork requires correct management of its processes and dynamics. This course dwells on selected issues in team development, internal processes, and members' behavior, as well as management skills needed to effectively lead teams; therefore it can benefit anyone who works in a group, whether as a student or in the business world.

Fall SOC1080  S01  15931  TTh 6:30-7:50(12)  (O. Shraga)

1090 Theories of Organizational Dynamics and Decision Making
This course focuses on the internal dynamics of organizations. It examines how individuals' attitudes, actions, and interactions make a difference for organizational processes and outcomes. Rather than focusing on organizational environments, structures, processes or outputs, this course is concerned with the way individuals inside organizations enact organizational structures, actions and performance through their attitudes, actions, and interactions. Topics include the management of effective teams and groups, leadership, power and influence, principles of human motivation, cognition and decision making, social identity and informal networks, organizational culture, and change.

Spr SOC1090  S01  20362  MWF 2:00-2:50(07)  (E. Bridwell-Mitchell)

1100 Introductory Statistics for Social Research
Introduction to descriptive and inferential statistics: measures of central tendencies and variability, sampling, tests of significance, correlation, and regression. Also includes the use of computers in data analysis. Knowledge of elementary algebra is assumed. Enrollment is limited to 144 students. Instructor permission required. Students MUST register for a conference, and a lecture section.

Fall SOC1100  S01  10459  TTh 1:00-2:20(10)  (D. Lindstrom)
Spr SOC1100  S01  20363  TTh 1:00-2:20(10)  (L. Vanwey)

1240 Human Sexuality in a Social Context
How do we come to know ourselves as sexual beings? How do individuals develop attractions, make sexual choices, define and enact their own sexuality? What is social about sexuality, and how do institutions and organizations influence understandings of human sexuality over time? This course investigates these questions by examining the processes through which the human body is sexed, from without, by the society into which it is born, and from within, through self-definition, desire, and practice. Social science theories of sexuality will be considered, and cross-cultural and historical accounts of sexual practices will be reviewed.

Fall SOC1240  S01  15478  MWF 10:00-10:50(03)  (C. Spearin)

1250 Perceptions of Mental Illness
This interdisciplinary course centers on the need to understand mental illness in a broad social context. It covers personal experience of mental illness, history of psychiatric concepts and treatment, politics of diagnosis, mental health policy and deinstitutionalization, public attitudes toward mental illness, social factors and epidemiology of mental illness, and links between mental illness and creativity. There is much attention to artistic perceptions of mental illness through fiction, memoirs, drama, music, and art.

Spr SOC1250  S01  25236  MWF 10:00-10:50(03)  (P. Brown)

1270 Race, Class, and Ethnicity in the Modern World
Applies sociological analysis to understand present and historical cases of ethnic and race relations and conflicts. Topics addressed are the social construction of race and ethnicity; historical processes of racialization; ethnic conflict and the nation state; and the linkages between race, class, and social mobility. Focuses on racial and ethnic relations in the U.S., but also has a strong international comparative component.

Spr SOC1270  S01  20364  TTh 10:30-11:50(09)  (J. Itzigsohn)

1440 Intimate Violence
Explores sociological perspectives of violence in intimate relationships. Begins with theories of violence, including social learning theory, the frustration-aggression hypothesis, and violence as catharsis. Examines the contributions of gender, race status, media violence, and pornography to the issue. Investigates specific forms of intimate violence: sexual aggression (including "acquaintance rape"), partner abuse, elder abuse, and child abuse.

Fall SOC1440  S01  15469  TTh 9:00-10:20(08)  (G. Elliott)

1540 Human Needs and Social Services
The development of human services provided by societies for their members. A broad range of social welfare institutions are studied, including income maintenance, family policy, housing, and health. The organization of institutions and professions receives particular attention. Issues of class, race, and gender are covered. Alternative models of human services are discussed.

Fall SOC1540  S01  14175  TTh 6:30-7:50(12)  (A. Dill)

1550 Sociology of Medicine
The sociopolitical context within which health, illness, and medical care are defined. Sociological materials are used to examine current developments in the health care field. Emphasis on identifying social and political forces that impinge upon the delivery systems and tracing their impact on the roles of practitioners and the health of their clients.

Spr SOC1550  S01  24099  MWF 9:00-9:50(02)

1620 Globalization and Social Conflict
Examines the effect globalization is having on the economies and societies of the developed and developing world. Focuses in particular on how new forms of global production and networking are transforming the traditional role of the nation-state, creating new
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dynamics of wealth distribution, and generating new sources of social conflict and political contestation, including transnational social movements. WRIT

Fall SOC1620 S01 13537 TTh 10:30-11:50(09) (P. Heller)

1640 Social Exclusion
Why are some groups rejected and others accepted? This course examines the mechanisms of belonging and ostracism, social integration and exclusion, theories of diversity and hierarchy, and policies to reduce exclusion and inequality.

Spr SOC1640 S01 24335 TTh 9:00-10:20(08) (H. Silver)

1650 Unequal Societies
This course compares nation-states in terms of various forms of inequality and assesses theories explaining international inequalities. It examines why poverty, income inequality, and poor health are greater in the United States than in comparably affluent countries, why intergenerational mobility varies, and why some societies treat women more equally or are more accepting of immigrants and cultural minorities than others. It asks whether the high standard of living in the Global North comes at the expense of the Global South. What holds unequal societies together and pulls them apart? Can inequalities be reduced?

Fall SOC1650 S01 15479 TTh 2:30-3:50(11) (H. Silver)

1870 Seminars
Open to juniors, seniors, and graduate students with instructor’s consent. Note that some 2000-level seminars are open to qualified undergraduates and may count for concentration credit. Enrollment limited to 20. WRIT

1870A Investing in Social Change
Philanthropy -- "giving away money" -- sounds attractive and simple. But the very acts of contributing and receiving resources affect dynamics and relationships among all involved. This course explores philanthropic strategies, social change, and the sociological dimensions of philanthropy in historic and current practice. Students engage in teams to investigate a particular community concern, design an investment strategy, and recommend the investment of grant dollars. Course enrollment is by application only. Applications can be found at swearencenter.brown.edu shortly before the start of class. Students who pre-register must still complete the application process and attend the first class meeting. Instructor permission required. Enrollment limited to 12. WRIT

Fall SOC1870A S01 14425 TTh 2:30-3:50(11) (A. Dill)

1870D Aging and Social Policy
This seminar examines the policy challenges of Americas aging population, centering on two major themes. The first has to do with the impact of the elderly on society and societal institutions. The second theme concerns alternate models for health and social service provision. We will explore the process of policy formation, focusing on the social and political construction of the problems of aging. Enrollment limited to 20. WRIT

Spr SOC1870D S01 25237 F 3:00-5:20(15) (D. Lindstrom)

1870K Demographics and Development
Assesses the social and economic determinants and consequences of changes in fertility, mortality, and migration and their impact on the size, distribution, and composition of population in developing societies. Implications of the evolving population structure for planning and policy. Enrollment limited to 20. WRIT

Spr SOC1870K S01 25238 M 3:00-5:20(13) (D. Lindstrom)

1870L Economic Sociology
Critically examines the relationship between economics and sociology. Aims to help students develop the knowledge and skills to critically observe, assess, and respond to important social and economic issues at the macro, meso and micro levels. Students also learn the skills of critical analysis and argumentation needed to form thoughtful opinion, take a critical position, or make a decision about important economic and social issues. Thus, students gain expertise as informed actors and advocates in the social and economic system. Prerequisites: SOC 1010, SOC 1030, ECON 0110, equivalents, or permission of the instructor. Enrollment limited to 20. WRIT

Fall SOC1870L S01 15470 Th 4:00-6:20(13) (E. Bridwell-Mitchell)

1870N Environmental Sociology
Pending Approval. The impact of political-economic forces on environmental degradation and environmental health. The effects of race, class, and gender on environmental awareness and activism. Lay-professional differences in hazard identification, risk perception, and the politics of science. Special emphasis on case studies of the toxic waste movement and other social movements dealing with disputes over the identification, cause, and treatment of environmentally induced diseases. Enrollment limited to 20. WRIT

Fall SOC1870N S01 15986 T 4:00-6:20(13) (K. DeMaster)

1870O Ethnic Entrepreneurship
This course focuses on the dynamics of urban labor markets in Latin America. In spite of rapid industrialization, large numbers of people in Latin American cities depend on the informal economy for their livelihood. The course begins with a review of the different theoretical approaches to the urban labor markets and the informal economy in Latin America. It then focuses on the relationship between industrialization and urbanization in the region, the economic and social linkages of the informal economy, and the household strategies of labor market insertion. Enrollment limited to 20. WRIT

Spr SOC1870O S01 24101 W 3:00-5:20(14) (J. Logan)

1870V Households, Work, and Gender
Household membership typically entails coordinated behavior. We discuss the organization of work and its gendered dimensions. We explore the determinants and consequences of existing divisions of labor drawing on readings from multiple disciplines. The approach is sociological and comparative. Considerable time devoted to less developed settings. Seminar format. Individual research encouraged. Enrollment limited to 20. WRIT

Fall SOC1870V S01 15471 M 3:00-5:20(13) (S. Short)

1871D Sophomore Seminar in Sociology of Development
This seminar provides an introduction to the study of development. It looks at the diversity of understandings of the concept of development as well as its practical importance in the world. Students will read texts that present pressing questions and issues concerning development practices, policies, and theories. Efforts to connect broad theoretical debates to understanding contemporary problems will be encouraged. Enrollment limited to 20 sophomores. WRIT

Spr SOC1871D S01 24338 M 3:00-5:20(13) (J. Itzigsohn)

1871F Principles and Methods of Geographic Information Systems
An introduction to the fundamental principles and methods of geographic information systems (GIS). Topics include (a) handling different types of geographic datasets, (b) geo-analytical and modeling tools in GIS, (c) conceptual and theoretical aspects of GIS application development, and (d) errors and uncertainty analysis of GIS applications. Laboratory assignments and the project work provide hands on experiences in GIS. Enrollment limited to 15 juniors and seniors. WRIT

Fall SOC1871F S01 10478 T 4:00-6:20(13) (S. Spielman)

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
1871R  Knowledge Networks and Global Transformation
Pending Approval. No description available. Enrollment limited to 20 students. WRIT
Spr  SOC1871R  S01  25245  W 3:00-5:20(14)  (M. Kennedy)

1950  Senior Seminar
Advanced research seminar for sociology concentrators in the second semester of work on an honors thesis. Participants examine methods for analyzing, writing, and presenting thesis material and apply peer review techniques in assessing each other’s work. Culminates in presentation of thesis to the department. Students doing independent study research may also participate with the instructor’s permission. Required for “honors” in sociology. WRIT
Spr  SOC1950  S01  20365  TTh 2:30-3:50(11)  (G. Elliott)

1970  Individual Research Project
Supervised reading research. Specific program arranged in terms of the student's individual needs and interests. Required of intensive concentrators; open to others only by written consent of the Chair of the department. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course.
Fall; Spr

1980  Senior Honors Thesis
Research seminar for students writing an honors thesis. Under the direction of a faculty advisor, students construct and carry out a research project. The written report of the research is submitted to the advisor for honors consideration. A second reader selected by the thesis advisor certifies that the thesis is of honors quality. Please check Banner for the correct section number and CRN to use when registering for this course.
Fall

1990  Senior Honors Thesis
Research seminar for students writing an honors thesis. Under the direction of a faculty advisor, students construct and carry out a research project. The written report of the research is submitted to the advisor for honors consideration. A second reader selected by the thesis advisor certifies that the thesis is of honors quality. Please check Banner for the correct section number and CRN to use when registering for this course.
Spr

(Primarily for Graduates)

2000  Theory and Research in Development
Explores a range of substantive debates in development by drawing on empirical and theoretical work from the disciplines of anthropology, economics, political science, and sociology. The course has four objectives: 1) to provide students with a broad understanding of current debates and research on development; 2) to explore a range of substantive issues including growth, inequality and democratization, 3) to develop interdisciplinary analytic skills that can be applied to concrete research questions; and 4) to foster cross-disciplinary conversation and debate.
Fall  SOC2000  S01  14549  W 9:30-11:50(02)  (P. Heller)

2010  Multivariate Statistical Methods I
Introduction to probability, descriptive statistics and statistical inference. Coverage of the linear model, its assumptions and potential biases. Emphasis on hypothesis testing, model selection and interpretation through application with real data.
Fall  SOC2010  S01  13538  Th 2:00-4:50(11)  (M. Jackson)

2020  Multivariate Statistical Methods II
This course is a graduate-level introduction to multivariate regression models for categorical and limited dependent variables. Subject matter includes modeling nominal and ordinal outcomes; truncated distributions; and selection processes. The course also reviews strategies for sample design; handling missing data and weighting in multivariate models. The course employs contemporary statistical software. Special emphasis is placed on model selection and interpretation. Prerequisite: SOC 2010
Spr  SOC2020  S01  23481  T 9:00-11:50(08)  (L. Vanwey)

2040  Classical Sociological Theory
This is a graduate-level course requires students to engage in detailed analysis and critical review of sociological thought of the 19th and early 20th centuries. The class will introduce students to the critical thinking, methodological innovation, and historical imagination of sociological theory by reading the original texts of the forefathers of sociology, including Karl Marx, Max Weber, Emile Durkheim and others.
Fall  SOC2040  S01  13539  T 9:00-11:50(08)  (J. Itzigsohn)

2050  Contemporary Sociology
This class offers a review of some of the most interesting contemporary social theorists and the most intense debates in current sociological thought. It thematically reviews the works of Jurgen Habermas on the public sphere, Michel Foucault on disciplinary and governmental modes of power, Bruno Latour on modernity and modern science, Pierre Bourdieu on field and habitus and among others. No prerequisites.
Spr  SOC2050  S01  20366  T 1:00-3:50(10)  (N. Chorev)

2080  Principles of Population
An advanced introduction to theoretical and substantive issues in the social scientific study of population. Major areas within sociology are integrated with the study of population, including the comparative–historical analysis of development, family processes, social stratification, ethnicity, ecological studies, and social policy. Primarily for first year Graduate students.
Fall  SOC2080  S01  15472  W 2:00-4:50(07)  (N. Luke)

2090  Culture and Social Structure
An analysis of the interrelations of religious ideas, value patterns, and various forms of knowledge on the one hand, and of the societal structures and changes in organizations and roles on the other hand. Offered in alternate years.
Spr  SOC2090  S01  25239  Th 2:00-4:50(11)  (P. Henry)

2210  Qualitative Methods
Emphasis on ethnographic field work through participant observation and interviews. Some attention to content analysis and visual sociology. Technical training in developing observational and interview guidelines, data collection, coding, transcript analysis, and computer applications. Strong emphasis on quality writing. Analysis of ethnographic research in book and article format. Attention to recent developments in ethnography, especially reflexivity and autoethnography.
Spr  SOC2210  S01  20367  Th 9:00-11:50(08)  (G. Baiocchi)

2230  Techniques of Demographic Analysis
Procedures and techniques for the collection, evaluation, and analysis of demographic data; measures of population composition, fertility, morality, and migration; construction of life tables, population projections, population dynamics; responsible use of demographic methodology. Mandatory S/N.C.
Spr  SOC2230  S01  25240  M 9:00-11:50(02)  (M. White)

2270  The Structures of Social Inequality
196 / Sociology

Examines the structural bases for social inequality in the U.S.: gender, race, and socioeconomic status. Investigates the processes by which we generate and preserve these social structures, as well as their effects on the individual. Finally, considers the changing nature of social inequality in a postmodern society and comparative issues across societies. Enrollment limited to 20. Instructor permission required.

Spr SOC2270 S01 25205 W 9:00-11:50(02) (G. Elliott)

2320 Migration

A review of the major patterns and differentials in international and internal migration in cross-cultural perspective. Emphasizes theoretical models of migration. Offered in alternate years.

Spr SOC2320 S01 25241 W 2:00-4:50(07) (D. Lindstrom)

2430 Fields and Methods of Social Research

Introduction to strategies sociologists use to formulate theories and conduct methodologically sound research. Hypothesis formulation and research design; special emphasis on identifying causal mechanisms, techniques of operationalization, and choice of relevant comparisons.

Fall SOC2430 S01 10483 W 9:00-11:50(02) (D. Hogan)

2460 Sociology Paper Writing Seminar

This course is intended to improve writing skills that are especially relevant scholarship in Sociology. Key issues include the logical flow of ideas, awareness of the audience, clarity of expression, completeness, and (because these writing products will be peer reviewed) anticipation of potential reviewers’ objections, and communicating what is new and interesting about the work. Students will be required to provide a draft of a paper or proposal that has potential to develop into a 25-35 page manuscript. The course is open to graduate students in sociology and to doctoral students in other programs by permission of the instructor. Enrollment limited to 12.

Fall SOC2460 S01 15473 Th 9:00-11:50(08) (L. Vanwey)

2500 Teaching Practicum in Sociology

Fall SOC2500 S01 10484 'To Be Arranged'

2510 Teaching Practicum in Sociology

Spr SOC2510 S01 24106 'To Be Arranged'

2610 Spatial Thinking in Social Science

This course reviews ways in which social scientists have incorporated concepts about space, place, and distance into their theories and research. Examples are drawn from many substantive areas, including the spatial organization of communities, spatial inequalities, and mobility. Separate laboratory meetings introduce methods of spatial analysis encountered in the course readings, including an introduction to GIS and related mapping tools.

Fall SOC2610 S01 15474 M 2:00-4:50(07) (J. Logan)

2960 Special Topics in Sociology

2960G Spatial Data Analysis Techniques in the Social Sciences

Survey course of statistical methods that can be used to analyze spatial and/or clustered data at the individual and aggregate levels. Topics include multilevel analysis; fixed effects approaches; spatial choice; spatial autocorrelation, heterogeneity and dependence. Application with real data. Not a course about Geographic Information Systems (GIS) or mapping techniques. Pre-requisites: Soc. 2010 and 2020, or equivalents.

Spr SOC2960G S01 23479 M 2:00-4:50(07) (M. Jackson)

2960K Contemporary Political Sociology

This course explores both classic and contemporary debates in political sociology. The central thematic is the relationship between democracy and inequality and includes theories of the state, markets, social class and civil society. These debates are explored through historical and comparative lenses, covering both old and new democracies. Prerequisite: Some background in political or sociological theory.

Spr SOC2960K S01 24107 F 9:00-11:50(02) (P. Heller)

2960L Special Topics in Population

Fall SOC2960L S01 15475 T 1:00-3:50(10) (S. Short)

2960M Sociology of Organizations Graduate Seminar

The sociology of organizations offers a burgeoning and vibrant literature, with relevance not only for self-identified organizational sociologists, but also for scholars in fields as diverse as politics, development, industrial relations, finance, education, health care, and the arts. This seminar offers an intensive exploration of the "state of play" in contemporary macro-organizational theory. Shared and individual readings, coupled with weekly discussions and email dialogues, allow students to refine and extend their thinking on a series of important and controversial topics in the recent literature. Although this course has no formal prerequisites, the syllabus is aimed primarily at graduate students who enjoy some prior familiarity with organizational theory, whether in sociology or a kindred discipline. Enrollment limited to 15.

Fall SOC2960M S01 15476 M 9:00-11:50(02) (M. Fennell)

2960P Social Network Analysis

Provides a synoptic survey of the various methodologies and theoretical frameworks that collectively go by the name "Social Network Analysis" in the social sciences. Students will study the origin and history of social network analysis during the latter part of the 20th Century and work to develop core competencies in the construction, use and interpretation of basic network measures. Special attention will be given to the intersection of social network theory with broader social theory. Although there are no formal prerequisites, students should be advised that social network analysis relies heavily on matrix algebra and basic statistical theory.

Fall SOC2960P S01 15932 F 9:00-11:50(02) (J. Hull)

2970 Preliminary Examination Preparation

For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing for a preliminary examination.

Fall SOC2970 S01 10485 'To Be Arranged'
Spr SOC2970 S01 20368 'To Be Arranged'

2980 Reading and Research

Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course.

Fall

2981 Reading and Research

Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course.

Spr

2990 Thesis Preparation

For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing a thesis.

Fall SOC2990 S01 10486 'To Be Arranged'
Spr SOC2990 S01 20369 'To Be Arranged'

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
Fall XLIST Courses of Interest to Students Concentrating in Sociology
The following related courses, offered in other departments, may be of interest to students concentrating in Sociology. Please see the course listing of the sponsoring department for location and time.

Development Studies
DEVL 2000 Theory and Research in Development I

Education
EDUC 1030 Comparative Education

Latin American Studies
LAST 1501I Urban Latin America

Urban Studies
URBN 0210 The City

Spring XLIST Courses of Interest to Students Concentrating in Sociology
The following related courses, offered in other departments, may be of interest to students concentrating in Sociology. Please see the course listing of the sponsoring department for location and time.

Development Studies
DEVL 2010 Theory and Research in Development II

Environmental Studies
ENVS 1920 Analysis and Resolution of Environmental Problems

Ethnic Studies
ETHN 1890A Seminar on Latino Politics in the United States

Judaic Studies
JUDS 0870 Israel Society

Latin American Studies
LAST 1510J The Making of Modern Brazil

Philosophy
PHIL 2160H Disability, Fiction, and Bioethics

Urban Studies
URBN 1870B Business Networks in Asia

Theatre Arts and Performance Studies

(Primarily for Undergraduates)

0030 Introduction to Acting and Directing
Explores basic acting/directing concepts from a variety of perspectives including the use of the actor's imagination/impulsivity in the creation of truthful, dramatic performance; the body, as a way of knowing and communicating knowledge; and the voice, as a means of discovering and revealing emotion/thought. Areas of emphasis vary with instructor. First year students only.

Please attend the introductory meeting for the Theatre Arts and Performance Studies Department for interview information. Interviews are conducted in the beginning of September after which placements for all sections in both fall and spring semesters will be decided. Applicants who miss the first interviews should contact the professor to schedule another time. Interview and written permission required. Enrollment limited to 18 first year students.

Fall TAPS0030 S01 15738 TTh 9:30-11:50(09) (C. Crawford)
Fall TAPS0030 S02 15739 TTh 3:00-5:20(11) (C. Crawford)
Spr TAPS0030 S01 25562 TTh 9:30-11:50(09) (C. Crawford)
Spr TAPS0030 S02 25563 TTh 3:00-5:20(11) (C. Crawford)

0100 Playwriting I
A workshop for students who have little or no previous experience in writing plays. Students will be introduced to a variety of technical and imaginative considerations through exercises, readings and discussions. Course is not open to those who have taken Advanced Playwriting (TAPS 1500, formerly LITR 1010C and TSDA 1500). Enrollment is limited to 17 undergraduates per section. A limited number of spaces are reserved for incoming and transfer students.

S/NC, WRIT

Fall TAPS0100 S01 15740 M 3:00-5:20(13)
Fall TAPS0100 S02 15741 Th 4:00-6:20(13)
Spr TAPS0100 S01 25565 M 5:30-7:50(16)
Spr TAPS0100 S02 25567 T 3:00-5:20(16)

0200 Playwriting II
Emphasis is placed on dramatic conventions, such as monologues, dialogue, mise-en-scene and time. Writing includes frequent exercises in various theatrical approaches. This course is limited to undergraduate students. Instructor permission is required. Prerequisite: TAPS 0100 (formerly LITR 0110C and TSDA 0100). All writing samples should be sent by the first day of class electronically to Erik_Ehn@Brown.edu with "PW II Sample" in the subject line. Permission will be given once the manuscripts have been reviewed.

S/NC, WRIT

Fall TAPS0200 S01 15742 Th 4:00-6:20(13)
Fall TAPS0200 S02 15743 Th 4:00-6:20(13)
Spr TAPS0200 S01 25568 Th 5:00-7:20(16)
Spr TAPS0200 S02 25569 T 4:00-6:20(16)

0220 Persuasive Communication
Provides an introduction to public speaking, and helps students develop confidence in public speaking through the presentation of persuasive speeches. Primarily for seniors. Limited to 18. Instructor's permission required. No permission will be given during pre-registration; interested students should sign up well in advance on the TAPS 0220 waitlist (form is at http://www.brown.edu/Departments/Theatre_Speech_Dance/) and attend the first day of class. Attendance is mandatory. Enrollment is limited to 16.

The application/waitlist process does not apply to students registering for the Summer term through the Office of Continuing Education.

Sum TAPS0220 S01 60345 MWF 10:00-3:40 (J. Dennen)
Fall TAPS0220 S01 15744 MW 9:00-11:50(02) (B. Tannenbaum)
Fall TAPS0220 S02 15745 MW 1:00-3:50(06) (B. Tannenbaum)
Fall TAPS0220 S03 15965 MW 9:00-11:50(02) (B. Tannenbaum)
Fall TAPS0220 S04 15966 MW 1:00-3:50(06)
Spr TAPS0220 S01 25571 MW 9:00-11:50(02) (B. Tannenbaum)
Spr TAPS0220 S02 25572 MW 1:00-3:50(06) (B. Tannenbaum)
Spr TAPS0220 S03 25814 MW 9:00-11:50(02)
Spr TAPS0220 S04 25815 MW 1:00-3:50(06)

0230 Acting
Focus on elements of dramatic analysis and interpretation as applied to the art of acting, and, by extension, directing. Monologues, scene study, and improvisation are basis for comment on individual problems. Reading of dramatic texts and theory. Substantial scene rehearsal commitment necessary. Attendance mandatory. Not open to first-year students. Enrollment limited to 20. Instructor’s permission required.

Sum TAPS0230 S01 60346 TTH 10:30-1:00 (K. Moore)
Fall TAPS0230 S01 15746 MW 12:00-1:50 & TTh 1:00-2:20(10) (L. Marshall)
Fall TAPS0230 S02 15967 MW 2:00-3:50 & TTh 2:30-3:50(11) (L. Marshall)
Spr TAPS0230 S01 25574 MW 12:00-1:50 & TTh 1:00-2:20(10) (K. Moore)

0250 Introduction to Technical Theatre and Production
This course is an introduction to the basic principles of stagework, lighting and sound technology and the different elements of theatrical design. Instructor permission required. Enrollment limited to 15.

Fall TAPS0250 S01 15747 MWF 10:00-11:50(03) (T. Hett)
Spr TAPS0250 S01 25575 MWF 10:00-11:50(03) (T. Hett)

0260 Stage Lighting
Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
0960A Musical Theatre Songwriting
A practical study in the creation of new works for the American musical theatre. Students enrolled in this course will learn the craft of musical theatre writing, and will be able to workshop their material for their peers. Musicals from the last eighty years will be studied and analyzed. Those enrolled may choose a focus of composition, lyric writing, playwriting, or any combination thereof. Collaborators are welcome to work together in this class, and those looking for potential collaborators will be paired with other students if they so desire. While amateur composers are encouraged to join, this is not a music theory course, and composers are expected to have a basic knowledge of theory (or self-taught skills). Enrollment limited to 10.

Fall TAPS0960A  S01  15754  T 4:00-6:20(13)  (A. Hertz)

0960B Musical Theatre Writing Workshop
A practical study in the creation of new works for the American musical theatre. Students enrolled in this course will learn the craft of musical theatre writing, and will be able to workshop their material for their peers. Musicals from the last eighty years will be studied and analyzed. Those enrolled may choose a focus of composition, lyric writing, playwriting, or any combination thereof. Collaborators are welcome to work together in this class, and those looking for potential collaborators will be paired with other students if they so desire. While amateur composers are encouraged to join, this is not a music theory course, and composers are expected to have a basic knowledge of theory (or self-taught skills). Enrollment limited to 12.

Spr TAPS0960B  S01  25584  T 4:00-6:20(16)  (A. Hertz)

0960C The History of Musical Theatre
A study of the history of American Musical Theatre from Tin Pan Alley to today's Broadway musicals. Students enrolled will study primary-source libretti, musical scores and interviews, as well as historical articles and essays on musical theatre and society. Special emphasis will be placed on musicals and their implication in helping to shape and define American social history, including topics such as national identity, race relations, and the treatment of minorities.

Spr TAPS0960C  S01  25585  W 3:00-5:20(14)  (A. Hertz)

(For Undergraduates and Graduates)

1000 Intermediate Dance
Designed to expand the student's knowledge of and proficiency in dance as an art form. Mainly a studio course, but selected readings, papers, critiques, and field trips are important components of the course. Prerequisite: TAPS 0310 or equivalent. Enrollment limited to 40. S/NC.

Fall TAPS1000  S01  15755  MTWTh 1:00-2:20(10)
Spr TAPS1000  S01  25586  MTWTh 1:00-2:20(10)  (J. Strandberg)

1100 Stage Management
An overview of the process of theatrical performance from script selection to closing, with emphasis on production and stage management. In addition, the role of front-of-house operations and the various theatrical unions are studied as components of different types of theatre organizations, such as regional theatres, opera companies, Broadway shows, and university theatres. Prerequisite: TAPS 0250.

Fall TAPS1100  S01  15756  Th 4:00-6:20(13)  (C. O'Neil)

1160 Style and Performance
For qualified sophomores, juniors, and seniors who offer TAPS 0230 as a prerequisite. Period scene study and monologues are basis for comment on individual progress in acting/directing. Extensive reading of dramatic texts and historic research materials. Work in voice, movement, dialect, and poetic text. Substantial commitment necessary for preparation of class scenes. Attendance mandatory. Prerequisite: TAPS 0230. Limited to 20. Instructor's permission required. No permissions will be given during pre-registration; interested students should sign up on the TAPS 1160 waitlist (form is at http://www.brown.edu/Departments/Theatre_Speech_Dance/) and attend the first day of class

Spr TAPS1160  S01  25587  MW 12:00-1:50 & TTh 1:00-2:20(10)  (L. Marshall)

1210 Solo Performance
An exploration of the challenges and rewards of performing solo. Students research, write, and perform a one-person show. Other projects may include performance art, stand-up comedy, and monologuing. Substantial time commitment. Attendance mandatory. For advanced students with appropriate background and experience.

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
Submit proposal and resume in the fall, For guidelines and information contact Lowry_Marshall@brown.edu. Permission required in advance. Enrollment limited to 20.
Spr TAPS1210 S01 25588 MW 2:00-3:50 & TTh 2:30-3:50(11) (L. Marshall)

1230 Performance Theory: Ritual, Play and Drama in Context
What is ritual? What is play? What is nemesis? What is an act? This course offers an introduction to basic texts in Performance Studies applied to the study of ancient and medieval theatre in global perspective. Students will learn fundamentals of performance theory while studying the histories of ancient Greek and Roman theatre, Medieval European ritual, Indian Sanskrit drama and theatrical form, Yoruban traditional performance, and modes of cross-cultural comparison. WRIT

Fall TAPS1230 S01 15969 TTh 10:30-11:50(09) (R. Schneider)

1240 Performance Historiography and Theatre History
This course will provide an introduction to performance history and historiography by concentrating on analysis of dramatic texts, theatrical events, festival performances and “performative” state and religious ceremonies from 1500-1850. We will explore incidents in Asia, the Americas and Europe as related to state consolidation, colonization, incipient nationalism(s), urbanization, cultural negotiation, and the representational practices the enacted. Enrollment limited to 35. WRIT

Spr TAPS1240 S01 25589 TTh 10:30-11:50(09) (P. Ybarra)

1250 Twentieth-Century Western Theatre and Performance
The study of key figures and movements in 20th-century Western theatre and performance, from approximately 1870 to 2000. We explore naturalism and alternative strategies to realism such as symbolism, futurism, surrealism and constructivism, along with myriad figures in the modern and postmodern "avant-garde." WRIT

Spr TAPS1250 S01 25590 TTh 1:00-2:20(10)

1270 Non-Western Theatre and Performance
Considers examples of festival theatre that deploy masks or strategies related to masking and asks why transformative play is so important in these holiday performances. Examples include: New Guinean payback ceremonies, civic festivals of Bali and ancient Greece, Yoruba Gelede festivals, and contemporary passion plays in Iran, India, and Vermont. Readings from various academic disciplines. Extensive use of films, slides, audio, and video. This year, there will be a focus on the performing arts of Bali in relation to Balinese society and a series of workshops will be held in relation to the readings and discussion. WRIT

Fall TAPS1270 S01 15757 TTh 1:00-2:20(10)

1280 Topics in Theatre Studies

1280A Acting for Camera
Introduces students to theories of acting for camera to develop the practical skills required for film and television performance. Attention will be paid to the ways in which stage techniques can be adapted for use in media performance. Students will prepare scenes and monologue material written specifically for film and television. Prerequisite: TAPS 0230.

Sum TAPS1280A S01 60347 T.WTh.F 10:30-1:00 (L. Marshall)

1280B The Creative Ensemble
Develops skills in acting, improvisation, directing, teaching, and writing. Through research, performance and collaboration, participants explore individual/group talents and creative passions. Ensemble-created final performance project. Prerequisite: TAPS 0230 or equivalent. Enrollment limited to 20.

Sum TAPS1280B S01 60348 T.WTh.F 2:00-5:30 (K. Moore)

1280F Introduction to Set Design
A survey of the history and concepts of scenic design with emphasis on the art, artists and the social/political movements influencing the major period. Aims to give the designer a foundation in research approaches. Also to provide an examination of stylistic approaches and innovations in the context of the historical period.

Fall TAPS1280F S01 15758 W 1:00-4:50(06) (M. McGarty)

1280O New Works/World Traditions: Innovation and Tradition
From research to performance, develops new dance theater pieces that are rooted in Mande dance and American dance. Includes study with Mande, American, and European artists in building a body of repertory for the concert stage. May be repeated for credit. By audition. S/NC. Instructor’s permission required.

Fall TAPS1280O S01 15759 Sa 3:00-6:00 & Su 3:00-7:00 & T 6:00-10:00 PM & Th 6:00-8:00 PM(13) (M. Bach-Coulilbaly)
Spr TAPS1280O S01 25593 Sa 3:00-6:00 & Su 3:00-6:00 & T 8:00-10:00 PM & Th 6:00-8:00 PM(16) (M. Bach-Coulilbaly)

1280T Contemporary Mande Performance
This course examines the influences of contemporary society upon traditional Mande Performance. Equal emphasis will be given to the theory and practice of embodied performance as it responds to selected music traditions, oral literatures, and aesthetic traditions. Films, readings, guest lectures and collaborative research projects will help to facilitate a deeper understanding of contemporary Mande society and its artistic production. Students MUST register for a conference and a lecture section. Enrollment limited to 150. Students MUST register for a conference, and a lecture section.

Spr TAPS1280T S01 25816 T 6:00-8:00 PM & Th 4:00-6:00(16)

1281A Director/Designer Collaborative Studio
Students will explore the relationship between director and designer within the production process. The main objective is to improve collaboration and production output by learning the language, tools, and skills involved in each area of discipline so as to enhance creative output. Enrollment limited to 17 students.

Spr TAPS1281A S01 25594 W 3:00-7:00(14) (K. Moore)

1281M Introduction to Costume Construction
An introduction to the study and practice of core costume construction skills. Topics include basic machine, hand sewing and patterning techniques. Instructor’s permission required.

Fall TAPS1281M S01 15970 T 3:00-7:50(13) (R. Cesario)
Spr TAPS1281M S01 25595 T 3:00-7:50(16) (R. Cesario)

1300 Advanced Set Design
The examination of the working relationship between designer and director. An emphasis on the design abilities needed to communicate varied visual approaches. Developing the creative, theatrical vocabulary needed to turn a director’s vision into a fully articulated set design. A substantial amount of plays will be read and researched. Drafting and model rendering techniques will be applied. Prerequisite: TAPS 1280F. Instructor approval required prior to registration. Enrollment limited to 10.

Spr TAPS1300 S01 25821 W 1:00-4:50(06) (M. McGarty)

1310 Advanced Modern Dance
Designed for dancers who have attained an advanced level in any dance technique. The purpose is to help such dancers come to understand both intellectually and kinesthetically the diversity of one of the few indigenous American art forms: modern dance. Enrollment limited to 40. S/N.C.
200 / Theatre Arts and Performance Studies

Fall TAPS1310 S01 15761 MW 3:00-4:20 & TTh 2:30-3:50(11)

1340 Dance Styles
This course focuses on the diverse styles, techniques and movement theories of Modern Dance. The students will practice the techniques and styles and will also study biographical material, view films, and attend live performances when possible. Enrollment limited to 40. S/N.C.

Spr TAPS1340 S01 25602 MW 3:00-4:20 & TTh 2:30-3:50(11)

1350 Dance Performance and Repertory
Half course credit, two semesters. A study of dance repertory through commissioned new works, reconstruction, coaching, rehearsal, and performance. Guest artists and consultants from the American Dance Legacy Institute. Enrollment is by audition. Limited to 20 skilled dancers. Instructor permission required. S/N.C.

Fall TAPS1350 S01 15768 MW 6:30-9:30 PM & TTh 8:00-10:00 PM(18) (J. Strandberg)

1360 Dance Performance and Repertory
A study of dance repertory offered through commissioned new works, reconstruction, coaching, rehearsal, and performance. The course will explore the phenomenology of dance, audience-performer connection, theatre production and dance criticism, among other topics. Enrollment is by audition. Limited to 20 skilled dancers. S/N.C.

Spr TAPS1360 S01 25603 MW 6:30-9:30 PM & TTh 8:00-10:00 PM(18) (J. Strandberg)

1500 Advanced Playwriting
The purpose is to progress through a series of writing exercises working through purgation, illumination, and unity. Course work includes a body of exercises, significant writing, workshop conversations and conferences. Advanced Workshops provide students with a forum for extended practice of the art of writing. Students must submit writing samples by the first day of classes electronically by sending to Erik_Ehn@Brown.edu. Please list "Advanced PW" in subject heading. Permission will be issued by the instructor as soon as the manuscripts are reviewed. Enrollment limited to 12. S/N.C. WRIT

Fall TAPS1500A S01 15769 Th 9:30-11:50(09) (E. Ehn)

1520 Seminar in Theatre Arts
Seminar designed primarily for senior theatre arts concentrators, required during Semester VII. Topics focus on career planning and theatre arts subjects not dealt with in other courses. Enrollment limited to 25 seniors.

Fall TAPS1520 S01 15771 F 1:00-2:50(06)

1610 Political Theatre of the Americas
This course explores political theatre and performance in Latin America, the US and Canada. The primary concern will be the use of performance in indigenous rights, queer rights, and gender equity campaigns as well as general critiques of socioeconomic inequity. The course examines the strategies used by actors in theatrical performances, performance art, and political protests that use the tools of performance. Exploration is of the rich relationship between politics and performance. There are no prerequisites, but one course in either Latin American Studies or Theatre and Performance Studies is recommended. DVPS

Fall TAPS1610 S01 15971 W 3:00-5:20(14) (P. Ybarra)

1650 21st Century American Drama
Course is designed to familiarize students with contemporary American playwriting from 2000-2005. We will explore how these plays reflect our current moment with attention to conceptions of gender, sexuality, national identity, trauma and memory. Playwrights may include Jorge Cortinas, Sarah Ruhl, Tony Kushner, Juliana Francis, Sabrina Berman, and Carl Hancock Rux. WRIT

Fall TAPS1650 S01 15772 TTh 2:30-3:50(11) (P. Ybarra)

1690 Performance, Art, and Everyday Life
Provides an introduction to performance-based art. Some knowledge of the historical avant-garde is required. The class will explore site-specific work, time-based work, life art, body art, instruction art and a variety of intermedial artwork. Theories of "theatricality" and "performativity" will be explored as will expressive properties of repetition, excess, mimesis, banality, mobility, framing, failure and shock. Enrollment limited to 16.

Spr TAPS1690 S01 25822 W 3:00-5:20(14) (R. Schneider)

1700A Voices Beneath the Veil (AFRI 1110)
Interested students must register for AFRI 1110 S01 (CRN 12832).

1700C Advanced RPM Playwriting (AFRI 1050A)
Interested students must register for AFRI 1050A S01 (CRN 12824 for fall 2010; CRN 21771 for spring 2011).

1700D Intermediate RPM Playwriting (AFRI 1050D)
Interested students must register for AFRI 1050D S01 (CRN 12826 for fall 2010; CRN 21772 for spring 2011).

1700G Roots of African American Fiction: Oral Narrative through Richard Wright (AFRI 1050M)
Interested students must register for AFRI 1050M S01 (CRN 23852).

1700H Art and Civic Engagement: Creativity/Reality (AFRI 1050P)
Interested students must register for AFRI 1050P S01 (CRN 24013).

1700I RPM Playwriting (AFRI 1050E)
Interested students must register for AFRI 1050E S01 (CRN 12829 for fall 2010; CRN 21773 for spring 2011).

1700J Musical Performance and Theatricality (MUSC 1680)
Interested students must register for MUSC 1680 S01 (CRN 15914).

1970 Independent Reading and Research
Intensive reading and research on selected topics arranged in terms of special needs and interests of the student. A written proposal must be submitted to the instructor and the chair of the theatre arts department before the project can be approved. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course.

Fall, Spr

1990 Senior Honors Thesis Preparation
To be taken by all students accepted into the theatre arts honors program. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course.

Fall, Spr

(Primarily for Graduates)

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
2200 Graduate Seminar in Theatre History
Enrollment limited to 20.

2200H Democracy/Community: Theatre and Performance in Relation
Enrollment limited to 20.

Fall TAPS2200H S01 16046 M 3:00-5:20(13) (R. Schneider)

2310 Graduate Playwriting
With Word as the embodying forth into social reality of original experience, the structures, purposes and ethical risks of writing for performance are examined; experienced through the reading of each other's works-in-progress, through the reading of essays and in session exercises. Graduate Workshop in Playwriting ordinarily limited to Graduate students; however, on occasion, undergraduates will be admitted with permission of the instructor. Writing samples must be submitted electronically by the first day of class to Erik.Ehn@Brown.edu. Please use "Grad PW" in the subject line. Permission will be given once manuscripts have been reviewed. Enrollment limited to 8. S/NC.

Fall TAPS2310 S01 15773 Th 1:00-3:50 & Th 4:00-5:50(13) (E. Ehn)
Spr TAPS2310 S01 25608 Th 1:00-3:50 & Th 4:00-5:50(16) (E. Ehn)

2500 Acting, Brown/Trinity Rep Consortium
This course is open only to students of the Consortium. It will include fundamental exercises, textual analysis, rehearsal techniques, character and scene work designed to provide the student actor with a working method based upon the general principles of the Stanislavski system. A major part of this course will include rehearsal and performance responsibilities.

Fall TAPS2500 S01 15775 ‘To Be Arranged’ (S. Berenson)
Spr TAPS2500 S01 25609 ‘To Be Arranged’ (S. Berenson)

2510 Voice: Power and Range for the Actor
This course is open only to students of the Consortium. It will provide a progression of exercises to free, develop and strengthen the voice as the actor's instrument. The classes focus on relaxation, physical awareness, breath, freeing the channel for sound developing the resonators, releasing the voice from the body, articulation, self-expression, and the link to text and acting.

Fall TAPS2510 S01 15776 ‘To Be Arranged’ (S. Berenson)

2520 Movement: Form, Center and Balance
This course is open only to students of the Brown University/Trinity Rep MFA Consortium program. It will develop a physical vocabulary through floor work, choreographed combinations and movement improvisation, helping the actor develop an understanding of space, strength of movement, and physical life onstage.

Fall TAPS2520 S01 15777 ‘To Be Arranged’ (S. Berenson)

2530 Directing: Composition and Staging
This course is open only to the MFA Consortium program. It will include information and exercises addressing how to stage a play, balance the space, and transition from scene to scene. It will also focus on the director's responsibility to the actors, and ways in which to help them create their roles.

Fall TAPS2530 S01 15778 ‘To Be Arranged’ (S. Berenson)

2550 Acting: Realism and Modernism
This is a two-credit course and is open only to students of the MFA Consortium program. This is a scene study class with an emphasis on 20th century playwrights. In addition to the works of Anton Chekhov, students may perform scenes from plays by Tennessee Williams, Arthur Miller, Clifford Odets, Wendy Wasserstein, Peter Parnell, Paula Vogel, Edward Albee and Harold Pinter.

Fall TAPS2550 S01 25610 ‘To Be Arranged’ (S. Berenson)

2560 Voice: Phonetics
This course is open only to students of the Brown University/Trinity Rep MFA Consortium program. The course will teach articulation, self expression, and link to text and acting. Additional work is devoted to speech and diction, with an introduction to the International Phonetic Alphabet (IPA) and a progression through Standard American Speech to rudimentary dialect work.

Spr TAPS2560 S01 25611 ‘To Be Arranged’ (S. Berenson)

2570 Movement: Physical Life and Language
This course is open only to students of the Brown University/Trinity Rep MFA Consortium program. It will help the student incorporate text and physicality in order to create the inner and outer life of a character. Special attention will be given to the student's repetitive physical patterns, and new ways will be explored in examining the internal and external life of a character.

Spr TAPS2570 S01 25612 ‘To Be Arranged’ (S. Berenson)

2580 Directing: Collaboration with the Playwright
This course is open only to students of the MFA Consortium program. It will focus on issues of collaboration between the playwright and the director. Each director will be assigned to work on a new script in cooperation with a playwright. A workshop production will be staged and open to the public.

Spr TAPS2580 S01 25613 ‘To Be Arranged’ (S. Berenson)

2600 Acting: Shakespeare and Moliere
This is a two-credit course and is open only to students of the MFA Consortium program. This is a scene study class with an emphasis on the problems of style and language in the plays of Moliere and Shakespeare.

Fall TAPS2600 S01 15779 ‘To Be Arranged’ (S. Berenson)

2610 Voice: Verse Text
This course is open only to students of the MFA Consortium program. It will include advanced vocal work and an introduction to singing in performance. Rhythm and rhyme will be explored in relation to lyrics and verse.

Fall TAPS2610 S01 15780 ‘To Be Arranged’ (S. Berenson)

2620 Movement: The Alexander Technique
This course is open only to students of the MFA Consortium program. This class will provide a step-by-step understanding and application of The Alexander Technique, which helps to develop body alignment, range of motion, and inner stillness.

Fall TAPS2620 S01 15781 ‘To Be Arranged’ (S. Berenson)

2630 Directing: The Director's Vision
This course is open only to students of the MFA Consortium program. Under close supervision, students will direct projects at the Consortium. Each student will be responsible for the creation of either a new or an established script. Students will meet regularly with the faculty to discuss process and progress.

Fall TAPS2630 S01 15782 ‘To Be Arranged’ (S. Berenson)

2650 Acting: Problems of Style
This is a two-credit course and is open only to students of the MFA Consortium program. This is a scene study class with an emphasis on the problems of style and language in non-realistic plays. In addition to advanced work on Shakespeare's texts, the course will explore other playwrights, possibly including Ibsen, Strindberg, Shaw and Beckett.

Spr TAPS2650 S01 25614 ‘To Be Arranged’ (S. Berenson)

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
2660 Voice: Singing with Joy
This course is open only to students of the MFA Consortium program. Students will work on music, both as soloists and in small groups. The course will address issues of sight reading, breath support, phrasing, and how to stage a song for performance.
Spr TAPS2660 S01 25615 ‘To Be Arranged’ (S. Berenson)

2670 Movement: Stage Combat, Clowning, and Other Physical Form
This course is open only to students of the MFA Consortium program. It will offer basic instruction in many physical areas including, but not limited to stage combat, juggling, mime, tumbling and clowning.
Spr TAPS2670 S01 25616 ‘To Be Arranged’ (S. Berenson)

2680 Directing: Critical Analysis
This course is open only to students of the MFA Consortium program. It will include issues of directing, as well as the concerns of an Artistic Director and Associate Artistic Director. Each student will be expected to assist director a professional production at Trinity Rep Company.
Spr TAPS2680 S01 25617 ‘To Be Arranged’ (S. Berenson)

2700 Acting: Monologue Performance
This is a two-credit course and is open only to students of the Brown University/Trinity Rep MFA Consortium program. Acting assignments will include solo work presented in a variety of ways. These might include a selection of monologues and songs presented by the students to show the full range of his or her abilities. A performance might also include a solo piece written by the student and presented as a single-actor production.
Fall TAPS2700 S01 15783 ‘To Be Arranged’ (S. Berenson)
Spr TAPS2700 S01 25618 ‘To Be Arranged’ (S. Berenson)

2710 Voice: Dialects and Accents
This course is open only to students of the Brown University/Trinity Rep MFA Consortium program. This course will teach actors various American regional dialects and international accents including British, Irish, Italian and Russian. Students will examine the language with the use of the International Phonetic Alphabet, and will be expected to perform using the regionalisms and dialect and then teach it to the rest of the class.
Fall TAPS2710 S01 15784 ‘To Be Arranged’ (S. Berenson)

2720 Physical Theatre
This course is open only to students of the Brown University/Trinity Rep MFA Consortium program. This course will explore various kinds of physical theatre, and ways in which the actor can be free, spontaneous and open in rehearsal and performance. Areas of exploration will include Commedia, mask and yoga.
Fall TAPS2720 S01 15785 ‘To Be Arranged’ (S. Berenson)

2730 Directing: Design in the Collaborative Process
This is a two-credit course and is open only to students of the Brown University/Trinity Rep MFA Consortium program. Directing students will study theatrical design including stage settings, costumes, lights and sound. Particular focus will be given to ways in which a director works with the designer to establish his or her vision of the play. Areas of study will include blueprints, floor plans, renderings and focus.
Fall TAPS2730 S01 15786 ‘To Be Arranged’ (S. Berenson)

2750 Acting and Directing: Practical Application
This is a two-credit course and is open only to students of the Brown University/Trinity Rep MFA Consortium program. The course will prepare acting students for a graduate showcase which will be performed in New York City and Los Angeles for agents, casting directors, and other professionals in the industry. Directing students will stage a New York showcase of their work for agents, artistic directors, and other theatre professionals. The course will also cover audition and interview techniques. Video work will be explored in detail, examining the difference between stage and on-camera direction and performance.
Spr TAPS2750 S01 25619 ‘To Be Arranged’ (S. Berenson)

2760 Professional Performance
This is a two-credit course and is open only to students of the Brown University/Trinity Rep MFA Consortium program. It will include performance work in a variety of venues including, but not limited to, Trinity Rep’s main stage. Work might include major and/or minor roles at Trinity, as well as understudy responsibilities for the professional company. Based on their participation in this course, students will be awarded their union cards so that they are able to enter the professional area upon graduating.
Spr TAPS2760 S01 25620 ‘To Be Arranged’ (S. Berenson)

2890A Special Topics in Theatre Arts and Performance Studies
Fall; Spr
Spr TAPS2890A S01 25902 M 3:00-5:20(13) (R. Schneider)

2970 Comprehensive Examination Preparation
For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing for a preliminary examination.
Fall TAPS2970 S01 15787 ‘To Be Arranged’
Spr TAPS2970 S01 25622 ‘To Be Arranged’

2980 Graduate Level Independent Reading and Research
A program of intensive reading and research on selected topics arranged in terms of special needs and interests of the student. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course.
Fall; Spr

2981 Master's Thesis Research
Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course.
Fall; Spr

2990 Thesis Preparation
For graduate students who have met the tuition requirement and are paying the registration fee to continue active enrollment while preparing a thesis.
Fall TAPS2990 S01 15788 ‘To Be Arranged’
Spr TAPS2990 S01 25623 ‘To Be Arranged’

University Courses
(Primarily for Undergraduates)

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
0400 Beyond Narnia: The Political Theory and Writings of C.S. Lewis

C.S. Lewis was one of the most widely read authors of the 20th Century, yet much of his philosophical, theological and political theories are unfamiliar. His fiction and philosophical writings will be explored to better understand his perspective on modern humanity, the relationship of man to family, the community and the state. C.S. Lewis had a very clear philosophy on the importance of the individual and how he relates to the larger social structures. Morality and the role of individuals as they interface with others around them and their responsibility for working with society both at community level and at the macro-state level will be explored. Instructor permission required. Enrollment limited to 22. Not Open to: First Year Students.

Fall UNIV0400 S01 14595 T 4:00-6:20(13) (T. Flanigan)

0540 Introduction to Contemplative Studies

Introduction to the new field of Contemplative Studies focusing on identifying methods human beings have found, across cultures and across time, to concentrate, broaden and deepen conscious awareness. We will study what these methods and experiences entail, how to critically appraise them, how to experience them ourselves, and how they influence the development of empathy, health, and well-being. Preference will be given to students who have taken RELS 0040, "Great Contemplative Traditions of Asia." Students MUST register for a lab, and a lecture section. Instructor's permission required. Enrollment limited to 20.

Sum UNIV0540 S01 60324 TTh 9:00-1:00 (H. Roth)
Spr UNIV0540 S01 24388 W 3:00-5:20(14) (H. Roth)

1520 The Shaping of World Views

To many students, an exclusive emphasis on specialized studies fragments the "world" in which they live. A widespread feeling of loss pervades the minds of students who often come to universities to learn right from wrong, to distinguish what is true from what is false, but who realize at the end of four years that they have deconstructed their freshman beliefs, values, and ideologies, but have created nothing to replace them. This course examines the diversity of worldviews both synchronically and diachronically and surveys various explanations for such diversity. Conducted in English. Enrollment limited to 30.

Spr UNIV1520 S01 21236 MWF 2:00-2:50(07) (O. Almeida)

1700 Transformation of the Research University

This seminar will focus on recent transformations of the academic, instructional and administrative character of the elite American research universities. Emphasis will be on selected pressure points (such as research funding, diversity, technology, market influence) that drive change and shape the future. Enrollment limited to 20.

Spr UNIV1700 S01 24490 M 3:00-5:20(13) (W. Simmons)

Urban Studies

(Primarily for Undergraduates)

0210 The City: An Introduction to Urban Studies

What is special about urban life? How and why do cities differ? How has the way we think about the city changed over time? Can we solve urban problems? This course offers an interdisciplinary approach to the history, physical design, spatial form, economy, government, cultures, and social life of cities in the U.S. and beyond.

Fall URBN0210 S01 10883 TTh 10:30-11:50(09) (H. Silver)

1000 Fieldwork in the Urban Community

A fieldwork course with limited enrollment. Each student undertakes a fieldwork project in close collaboration with a government agency, a nonprofit association, or a planning firm. In weekly seminar meetings, the class examines a series of urban issues and discusses fieldwork methodology. Students also schedule regular appointments with the instructor. Restricted to Urban Studies concentrators. Enrollment limited to 8 during registration. Instructor will select additional 2 students after first day of class. WRIT

Spr URBN1000 S01 20688 TTh 1:00-2:20(10)

1010 Fieldwork in Urban Archaeology and Historical Preservation

Study of the surface and subsurface features of the urban built environment. An introduction to research methods and fieldwork procedures used by archaeologists and historical preservationists who work on urban sites. Students undertake fieldwork projects that involve archival research, close examination of historic structures, and theoretical analysis of the changing urban landscape. Priority given to Urban Studies concentrators and American Civilization grad students. Other students selected on first day of class. Enrollment limited to 20. WRIT

Fall URBN1010 S01 13679 M 7:00-9:20 PM(18)

1200 The United States Metropolis, 1945-2000

This lecture and discussion course will provide students with an introduction to the history, politics, and culture of United States cities and suburbs from the end of World War II to the close of the twentieth century. Readings are drawn from recent work in the political, social, and cultural history of U.S. cities as well as primary sources rooted in the period under study. DVPS WRIT

Spr URBN1200 S01 23285 MWF 11:00-11:50(04) (S. Zipp)

1420 Urbanization in China

Examines urbanization processes and urban public policy in China. Also draws on historical and recent experience in the U.S. Policy areas including policies affecting urbanization, migration, and industrial location; policies affecting housing, land use, and urban reform; and policies affecting fiscal decentralization and infrastructure investments such as transportation. Prerequisite: ECON 0110. Enrollment limited to 18. DVPS

Spr URBN1420 S01 20671 TTh 2:30-3:50(11) (J. Henderson)

1870 Seminars in Urban Studies

Enrollment limited to 20.

1870A American Culture and the City

This course explores American culture and the way it shapes our cities. Topics include the American dream, race, immigration, urban dilemmas and the seduction of suburbia. We read a book (readings include Alexis de Toqueville, Richard Wright, Tom Wolfe, and Margaret Atwood); and screen a film (movies include Wall Street, Traffic, Crash, Malcolm X) each week. Prerequisite: POLS 0220. Priority given to Urban Studies concentrators. Enrollment limited to 20.

Spr URBN1870A S01 25314 W 3:00-5:20(14) (J. Morone)

1870D Downtown Development

Study of the revitalization of central business districts (CBDs) in large United States cities. Topics include the CBD as a land use system, retail change, the rise of white-collar offices, gentrification near the CBD, and the political economy of CBD redevelopment. Providence’s CBD used as a case example; guest speakers discuss its change; field trips are taken. Enrollment limited to 15 during registration. Instructor will select additional 5 students after first day of class.

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
204 / Visual Art

Fall URBN1870D S01 14949 Th 4:00-6:20(13)

1870E Green Cities: Parks and Designed Landscapes in Urban America
Examines the cultural meaning and public use of greenspace in American towns and cities. Covers city parks and metropolitan park systems; the landscaping of riverfronts, streets, cemeteries, and company property; and the contributions of landscape architects such as Olmsted and Manning. Begins in the 17th century with the creation of Boston Common and ends by reviewing the latest greenway plans for Providence. Priority given to Urban Studies concentrators and American Civilization grad students. Other students selected on first day of class. Enrollment limited to 20. WRIT

Spr URBN1870E S01 24804 T 4:00-6:20(16)

1870J The Politics of Community Organizing
Introduces key issues concerning community organizing. Focuses on the life, skills, and tactics of Saul Alinsky and the national organization he founded, the Industrial Areas Foundation (IAF). Analyzes the work of the IAF in a number of urban settings. Seeks to develop theories and models for studying community mobilization in urban America. Priority given to Political Science and Urban Studies concentrators. Enrollment limited to 20.

Fall URBN1870J S01 15523 M 3:00-5:20(13) (M. Orr)

1870N The Cultural and Social Life of the Built Environment
This seminar investigates the relationship between people and place. It considers the ways that people create and experience the man-made landscape, how they understand place through various aesthetic forms, and the political conflict over space and place. We look mostly at the history and contemporary development of cities and suburbs in the United States. Students will prepare a final project on a specific aspect of the built environment; they will be encouraged to focus their research on Providence or another local community. Enrollment limited to 20. Priority given to Urban Studies concentrators and seniors; instructor permission required otherwise. LILE WRIT

Fall URBN1870N S01 13527 W 3:00-5:20(14) (S. Zipp)

1970 Independent Reading and Research
A specific program of intensive reading and research arranged in terms of the special needs and interests of the student. Open primarily to concentrators, but others may be admitted by written permission. Section numbers vary by instructor. Please check Banner for the correct section number and CRN to use when registering for this course.

Fall; Spr

Fall XLIST Courses of interest to Concentrators in Urban Studies
The following courses offered by other departments will fulfill specific requirements of the Urban Studies concentration. (Please refer to the Urban Studies website to determine which requirements are fulfilled by these courses.)

Please check with the sponsoring department for times and locations.

Environmental Studies
ENVS 1700A Cultural Competence and Ethics
Geology
GEOL 1320 Introduction to GIS
History of Art and Architecture
HIAA 0850 Modern Architecture
History
HIST 1670 History of Brazil
HIST 1820 American Urban History to 1870
Political Science
POLS 1310 African American Politics
Public Policy and American Institutions
PPAI 1700R Urban Revitalization: Lessons from the Providence Plan
Sociology
SOC 1100 Introductory Statistics for Social Research
SOC 1871F Introduction to GIS

Spring XLIST Courses of interest to Concentrators in Urban Studies
The following courses offered by other departments will fulfill specific requirements of the Urban Studies concentration. (Please refer to the Urban Studies website to determine which requirements are fulfilled by these courses.)

Please check with the sponsoring department for times and locations.

Economics
ECON 1620 Introduction to Econometrics
Education
EDUC 1150 Education, the Economy, and School Reform
EDUC 1650 Policy Implementation in Education
English
ENGL 1710I Harlem Renaissance
Environmental Studies
ENVS 1410 Environmental Policy and Practices
ENVS 1920 Analysis and Resolution of Environmental Problems
Ethnic Studies
ETHN 1870A Ethnic Los Angeles
History of Art and Architecture
HIAA 0490 Urban Modernity and the Middle East
HIAA 0560 Visual Culture of Modern Rome
HIAA 0860 Contemporary Architecture
History
HIST 1972V Modernity, Jews and Urban Culture
Political Science
POLIS 1310 African American Politics
Public Policy and American Institutions
PPAI 1200 Policy Analysis and Program Evaluation
PPAI 1700J GIS and Public Policy
Sociology
SOC 1100 Introductory Statistics for Social Research
SOC 1270 Race, Class and Ethnicity in the Modern World
SOC 1640 Social Inequality

Visual Art

(Primarily for Undergraduates)

0100 Studio Foundation
An introduction to basic visual art concepts, exploring a range of materials with emphasis on experimentation and analysis of visual relationships. Drawing is a vital part of this course. Admittance to this course will be determined by an online lottery. VISA 0100 or 0110 is a prerequisite to any advanced studio course work at Brown or the Rhode Island School of Design. Under certain circumstances a student may petition for a waiver of this requirement upon submission of a portfolio. Instructor’s permission required.

Sum VISA0100 S01 60325 TTh 1:30-5:30 (L. Tarentino)

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
0110 Advanced Studio Foundation
Some students arrive at Brown with a greater understanding of visual art principles than most, yet need an introduction to other aspects before taking more advanced courses. Figure drawing is practiced throughout the semester, utilizing a variety of media. Weekly outside assignments explore diverse themes and become the subject of comprehensive class discussions. Serves as a prerequisite to upper-level courses, as does VISA100.

Admittance to this course will be determined by a portfolio review. Students must submit their portfolio to the Visual Art department office on 9/4/09 from 9 a.m. to 4 p.m. in List, room 222; digital images are preferred. Students will be notified of acceptance into the class. Instructor's permission required. Enrollment limited to 18.

Fall VISA0110 S01 10222 MW 10:00-11:50(03) (P. Myoda)

0120 Foundation Media: Sound and Image
This foundation studio course focuses on the production and theory of screen-based digital media artwork and introduces the computer as a medium and a tool for art. The principles and techniques of design, sound and image production are addressed in readings, screenings, and a number of specific projects. Instructor permission required. Instructor's permission required. Enrollment limited to 12.

Fall VISA120 S01 10223 TTh 10:00-11:50(09) (E. Osborn)
Spr VISA120 S01 20221 MW 10:00-11:50(03) (E. Osborn)

0130 3-D Foundation
This is an extensive study in form and structure intended to develop spatial understanding and the fundamentals of 3-dimensional design and construction. Students will explore the structural, compositional and conceptual implications of basic materials, such as wood, metal, plaster and found objects. Projects are designed as a means for investigating a variety of sculptural processes. Students will learn casting techniques, safe usage of power tools and welding equipment. In addition special emphasis will be placed on creativity, critical thinking and the ability to successfully articulate ideas visually. Instructor permission required. Students who are not admitted during pre-registration or were unable to pre-register are advised to attend the first meeting of the class. Instructor's permission required. Enrollment limited to 15.

Spr VISA130 S01 23407 F 1:00-4:50(06) (D. Stupar)

1110 Drawing I
Drawing from nature, still life, the model, and the imagination in a variety of media. A continuing series of outside assignments emphasized. Visits to galleries and museums and pertinent exhibitions may be undertaken. The portfolio of the individual student will be the basis of evaluation. Great emphasis is put on classroom participation. Pre-requisite: VISA 0100 or 0110.

This course restricted to 20 students. 18 seats will be available during pre-registration. Students who are not admitted during pre-registration should attend the first meeting.

1120 Drawing II
Drawing from the imagination, the model, and landscapes in a variety of media. Great emphasis is placed on creative work and on classroom participation. Prerequisite: VISA 0100. This course restricted to students. 18 seats will be available during pre-registration. This class will satisfy VA concentration requirement for drawing. Students who are not admitted during pre-registration or were unable to pre-register should attend the first meeting.

Spr VISA1120 S01 20218 TTh 1:00-4:50(10)

1210 Printmaking
Lithography, Etching, Silkscreen or Relief printmaking will be taught, depending on the semester. Enrollment limited to 17.

1210D Lithography
Lithography is the most versatile printmaking process. Working on limestone and aluminum plates, students will learn to produce, process and print their work in black and white. Class participation is vital, as students will be aiding each other in this complicated process. This course requires considerable time outside of class. Prerequisite: VISA 0100 or VISA 0110.

This course restricted to 17 VA or Art Semiotic Concentrators, and others by permission of the instructor. 10 seats will be available during pre-registration.

Students who are unable to pre-register should attend the first class.

Fall VISA1210D S01 15722 TTh 1:00-3:50(10) (L. Bostrom)

1210G Silkscreen
This course will provide students with a thorough knowledge of both water-based screen printing techniques and digital imaging. The intersection of digital printing processes and screen printing within the context of contemporary works on paper will be explored through a series of experimental mixed-media projects. Work will be in both black and white and color. Prerequisite: VISA 0100 or VISA 0110. This course restricted to 17 students. Students who are not admitted during pre-registration or were unable to pre-register should attend the first class.

Spr VISA1210G S01 24386 TTh 1:00-4:50(10) (L. Bostrom)

1240 Art of the Book
Will examine the book, structurally and conceptually, as an artist's medium. Students will learn the materials, tools and techniques of bookbinding, as they explore the expressive possibilities of the book form. Topics and projects for this course will include non-adhesive bookbinding, hardcover cloth and leather bound books, clamshell boxes and book repair. Studio work will be augmented with field trips, artist visits, and guided exploration of the special collections at the John Hay Library. While students may take VISA 1240 only, they may not enroll in 1250 without 1240 as a prerequisite. Pre-requisite: VISA 0100 or 0110. This course restricted to 15 VISA or Art Semiotic Concentrators, and others by permission of the instructor. 10 seats will be available during pre-registration. Students who are not admitted during pre-registration or were unable to pre-register should attend the first meeting.

Fall VISA1240 S01 10225 'To Be Arranged'

1250 Art of the Book
Will examine the artist's book from the printer's perspective. Students will learn the basics of book design, traditional typography and letterpress printing, as they consider form of the book in service of its

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.

Students who are unable to pre-register should attend the first class.

Fall VISA1110 S01 10224 MW 1:00-4:50(06) (E. Ansel)
Spr VISA1110 S01 25829 TTh 9:00-11:50(08) (L. Bostrom)
content. Topics and projects for this course will include relief printmaking, papermaking, hand setting of metal and wood type, bookplates, broadsides, and a collaborative fine press edition. Studio work will be augmented with field trips, artist visits, and guided exploration of the special collections at the John Hay Library.

Prerequisite: VISA 0100 or VISA 0110. This course restricted to 15 students. 5 seats will be available during pre-registration. Students who are not admitted during pre-registration or were unable to pre-register should attend the first meeting.

Spr VISA1250 S01 20219 'To Be Arranged'

1310 Painting I
Designed to accommodate a variety of interests and aptitudes. Provides basic instruction in media and painting procedure, but emphasizes the development of the image as a visual statement. Covers the building of stretchers, basic color principles, and painting media and procedures. Slides and related books and articles are discussed. Individual criticism is given; participation in regularly scheduled group discussions is required. Pre-requisite: VISA 0100 or 0110. This course restricted to 18 VA or Art Semiotic Concentrators, and others by permission of the instructor. 10 seats will be available during pre-registration. Students who are not admitted during pre-registration or were unable to pre-register should attend the first class.

Not all restrictions apply to students registering for the Summer term through the Office of Continuing Education.

Sum VISA1310 S01 60327 MW 1:30-5:30
Fall VISA1310 S01 10226 TTh 1:00-4:50(10) (L. Tarentino)
Spr VISA1310 S01 20220 TTh 1:00-4:50(10) (L. Tarentino)

1320 Painting II
The advanced class covers information beyond the introductory level. Individual criticism is emphasized. Students are required to complete all structured assignments and to participate in regularly scheduled discussions. Prerequisite: VISA 0100 or VISA 0110, and VISA 1310. Instructor Permission required. This course will be restricted to 18 VISA or Art Semiotics Concentrators and others by permission of the instructor. 10 seats will be available during pre-registration. Students who are not admitted during pre-registration or were unable to pre-register are advised to attend the first meeting of the class.

Fall VISA1320 S01 10231 MW 1:00-4:50(06) (W. Edwards)
Spr VISA1320 S01 25536 MW 1:00-4:50(06) (W. Edwards)

1330 Drawing with Watercolor
This course will be a rigorous examination of the possibilities of drawing with watercolor. We will do a lot of work outside and there will be an emphasis on unorthodox use of the watercolor medium. Because the basis of watercolor is sound drawing, there will be considerable instruction and practice in drawing fundamentals such as perspective, value, composition, scale, rendering, etc. Recommended prerequisite: VISA 0100, 0110, or comparable foundation level course is expected. Enrollment limited to 20.

Sum VISA1330 S01 60328 MW 9:00-1:00 (L. Bostrom)

1410 Sculpture: Material Investigations
This studio course addresses basic sculptural methods, i.e., additive and subtractive modeling, casting, and assemblage, and common sculptural materials, i.e., wood, metal, plaster, and found objects. Demonstrations and workshops on a number of sculptural tools and materials form the foundation for this studio. Students develop sculptural solutions to a given set of problems. Contemporary issues raised in critiques and readings. Extensive outside work is expected. Students are invited to take this course more than once, as the problems can be customized for those with more experience. Pre-requisite: VISA 0100 or 0110 or VISA 0130. 10 seats will be available during pre-registration. Students who are not admitted during pre-registration or were unable to pre-register should attend the first meeting of the class.

Fall VISA1410 S01 10234 MW 1:00-4:50(06) (P. Myoda)

1420 Sculpture: Conceptual Propositions
This studio course explores a number of contemporary sculptural theories and practices. Students develop sculptural solutions to a given set of problems, using materials and methods of their choosing. Contemporary issues raised in critiques and readings. Completion of VISA 1410 or comparable experience in some type of three-dimensional practice is suggested, but not required. Demonstrations and workshops on a number of sculptural tools and materials will be given as needed. Students are invited to take this course more than once, as the problems can be customized for those with more experience. Extensive outside work expected. Pre-requisite: VISA 0100 or VISA 0110 or VISA 0130. 10 seats will be available during pre-registration. Students who are not admitted during pre-registration or were unable to pre-register should attend the first meeting of the class.

Spr VISA1420 S01 20222 MW 1:00-4:50(06) (P. Myoda)

1510 Photography I
Introductory course in black and white photography, emphasizing core photographic concepts, possibilities, history, genres, technical information, and techniques. A variety of lens-less and lens based exercises will be introduced blurring the boundaries between the "traditional" sense of photography (as means of mechanical reproduction) and other studio based media such as drawing or painting. Large and medium format cameras will be introduced, but students should have their own 35 mm film camera. Pre-requisites: VISA 0100 or 0110. This course restricted to 15 VISA or Art Semiotic Concentrators, and others by permission of the instructor. 10 seats will be available during pre-registration. Students who are not admitted during pre-registration or were unable to pre-register should attend the first meeting.

Fall VISA1510 S01 10236 TTh 1:00-4:50(10) (J. Williams)
Spr VISA1510 S01 23292 TTh 1:00-4:50(10) (J. Williams)

1520 Photography II - Digital Photography
Will explore digital image processing in color and B&W. Using digital cameras, computer editing software, digital printing, as well as critical analysis of computer digitized images will be covered. The execution of visual problems and in-class presentations as well as theoretical readings allow students to examine the content and function of digital imaging technology and production in modern photography. A digital SLR type camera is required. Pre-requisite: VISA 0100, VISA 0110, or VISA 0120. Prerequisite: VISA 0100, VISA 0110, or VISA 0120.

This course restricted to 15 VISA or Art Semiotic Concentrators, and others by permission of the instructor. 10 seats will be available during pre-registration. Students who are not admitted during pre-registration should attend the first meeting. May be repeated once for credit.

Fall VISA1520 S01 10238 TTh 9:00-11:50(08) (J. Williams)
Spr VISA1520 S01 23293 TTh 9:00-11:50(08) (J. Williams)

1710 New Genre: Site and Sound
This studio course provides an overview of contemporary sound art and sound installation, facilitates the development of site-based sonic artwork, and encourages a critical approach to sound and audio practice. Work will be developed for and from specific sites with special emphasis placed on modes of listening and the physical characteristics of sound itself. Examples of site-specific sound work in a variety of formats including performance, installation, sculpture, literature, and radio are presented and analyzed. Readings and assignments will coincide with these areas and regular listening exercises are incorporated throughout the class. The format for the class includes lectures and discussions, lab time, and technical training in sound production as necessary for the production of sound-based works. Prerequisite: VISA 0120. This course restricted to 15 students. 10 seats will be available during pre-registration. Students who are not admitted during pre-registration should attend the first meeting. May be repeated once for credit.

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
**1800 Seminars in Production**
Topics change from year to year and instructor to instructor. In each session enrollment is limited to 20. Written permission will be given after the first meeting. Topics might include: Public Art, Problems of Documentary, Approaches to Digital Cinema, the Radio phonic and Radio, Accessorizing, Painting, Installation of Mixed Media, etc. Enrollment limited to 20.

**1800C Honors Seminar**
Required for students who have been accepted as candidates for honors. The seminar meets weekly to discuss readings and for group critiques. Includes group trips to New York and Boston, to visit galleries, museums, and artists' studios. Instructor permission required. Enrollment limited to 20. WRIT

Fall VISA1800C S01 10242 TTh 10:00-11:50(09) (L. Tarentino)

**1800J Exploration in Video Art**
This studio course provides an overview of contemporary video art and video installation practices, facilitates the development of video work in an expanded space, and encourages a critical approach to interactive moving image practice. Students will develop a set of video installation pieces by working individually and in groups. The pieces will be developed for particular spaces and situations beyond the standard single-screen video format. Students will learn basic video production post-production skills using Final Cut Pro, DVD Studio Pro, Jitter, and other tools as needed. The production work will be complemented by technical lectures and demos, readings and discussions, short assignments, and screenings. Prerequisite: VISA 0120. Instructor permission required. Enrollment limited to 20.

Fall VISA1800J S01 15978 TTh 10:00-11:50(09) (E. Osborn)

**1800L Hybrid Art**
In the simplest terms, hybridity can be understood as the integration of heterogeneous elements into a single entity. Hybridization can also be employed as a powerful strategy in the development of the creative process. This course will foster experimentation, collaboration, and multidisciplinary studio practice, building upon a visual arts foundation, but drawing upon the interests of a diverse range of students. We will work to establish a studio environment that encourages intermedial artistic practices with emphasis placed upon innovation, risk, and the cultivation of new ideas.

We will be nurturing the cross-fertilization of ideas in a challenging and artistically rigorous environment. Students will be encouraged to experiment with different approaches to the creative process in search of outcomes that cannot be predicted in advance. Enrollment limited to 16 and will be determined by permission of instructor. Interested students must attend the first class.

Fall VISA1800L S01 13739 MW 1:00-4:50(06) (R. Fishman)
Spr VISA1800L S01 23600 MW 1:00-4:50(06) (R. Fishman)

**1910 Individual Study Project in the Practice of Art**
Work on an approved project leading to the presentation of a portfolio, under supervision of an individual member of the staff. Project proposals must be filed with the department no later than the first week of the semester. Section numbers vary by instructor. Instructor’s permission required.

Fall; Spr

**1990 Honors**
Section numbers vary by instructor. Instructor’s permission required.
Spr

**Spring XLIST Courses of Interest to Visual Arts Concentrators**
The following courses may be of interest to Visual Art concentrators. Please check the course listing for Modern Culture and Media for times and locations.

- MCM 0730 Introduction to Video Production: Critical Strategies and Histories
- MCM 1700D Reframing Documentary Production: Concepts and Questions
- MCM 1700 Video Production 1: Critical Strategies and Histories
- MCM 0750 Digital Art
- MCM 0780 Soundtracks: Sound Production and Visual Media
- MCM 1700M Techniques of Surveillance
- MCM 1700N Open Source Culture
- MCM 1700R Cultural Practices

**Undergraduate Concentration Programs**

**Africana Studies**
The Department of Africana Studies is the intellectual center for faculty and students interested in the artistic, historical, literary, and theoretical expressions of the various peoples and cultures of Africa and the African Diaspora. Located in the historic Churchill House, the Department is dedicated to the critical exploration and development of new knowledges about the cultures, histories, social formations and artistic expressions of Africa and various locations that comprise the African Diaspora.

In order to develop requisite competency, Africana Studies concentrators must complete eight (8) semester-long courses offered by or cross-listed with the Department. Concentrators may also petition the Department to accept other appropriate courses.

Of these courses, the following two Africana Studies courses are required:

- AFRI 0090 An Introduction to Africana Studies (Fall ONLY)
- AFRI 1360 Africana Studies: Knowledge, Texts, and Methodology–Senior Capstone Seminar (Spring ONLY)

The Department strongly encourages foreign study in Africa, the Caribbean, and Latin America, during the student’s junior year. While the department actively supports programs in South Africa, Tanzania, Ethiopia, Brazil, and the English-Speaking Caribbean, concentrators must complete at least six (6) courses in residence at Brown.

The Department also encourages the acquisition of language competencies, in addition to English, which are spoken in Africa and the diaspora. Since no continental African language is currently offered at Brown, concentrators who study abroad and acquire certified competency in any African language are welcome to petition the department for competency credit.

**Honors**

Africana Studies’ concentrators with outstanding records may be admitted to the department’s Honors Program. Prior to the end of the concentrator's junior year and while working in consultation with a faculty advisor, the student must prepare a work plan. This plan, not to
American Civilization

Students who concentrate in American civilization pursue an interdisciplinary approach to the study of the social, cultural and political experiences and identities of the diverse groups who constitute and have constituted the society of the United States. In consultation with the concentration advisor, American civilization concentrators design individualized concentration plans and have the opportunity to take courses both in the department and throughout the University for concentration credit.

Students must take ten upper-level courses to fulfill the requirements for a concentration in American civilization. The rules governing the choice of these courses are as follows:

- Completion of four (three, if opting for four focus courses) of the numerous 1000-level survey courses offered by the Department's faculty. These courses examine a wide variety of topics and themes and are designed to provide concentrators with a broad foundation in the interdisciplinary study of U.S. society and culture.

- Completion of three (four, if opting for three AMCV 1000-level courses) which together define a coherent area of specialization within the concentration by focusing on a particular problem, topic, or area of American society and culture. These courses, which may be taken in any department in the university, should be upper-level and pertain to U.S. society and culture. Other students have prepared successful focus areas in a wide range of fields, i.e. American popular culture, 1960-2004; education, race and class; health care policies; the sixties; women's history, 1650 to the present; nineteenth century material culture; religious practice during the twentieth century.

- Completion of a proseminar/writing seminar preferably before the senior year. This requirement may be fulfilled in two ways: either by taking an AMCV 0190 or AMCV 0150 seminar prior to the junior year; or by taking an upper-level seminar in American Civilization in another department, in which reading and writing assignments focus on some aspect of U.S. society and culture.

- Completion of the Junior Seminar, AMCV 1700. This course is designed to introduce new concentrators to some of the more important categories of analysis, methodologies, approaches and concerns of American Civilization.

- Completion of an AMCV 1900-1909 seminar taken in the senior year. The aim of this final senior seminar is to apply the interdisciplinary skills learned in the field of American Civilization to a semester-long, in-depth study of a particular topic.

Honors

The Honors program in the Department of American Civilization is designed for students who want to write a senior paper in order to explore a topic in depth; engage in original research; work closely with a particular faculty member; and receive their AB with Honors in American Civilization. The Department sees the senior thesis as a capstone experience which allows students to use many of the skills and concepts they've learned at Brown in conceiving and carrying out a substantial research project. The Department recommends that prospective thesis writers contract with a faculty member to do a directed reading during the second semester of the junior year in order to define a topic and research question and complete a thesis prospectus. In each semester of the Senior year, students register for a thesis writing course (AMCV 1970) under the supervision of their advisor and prepare a sixty to one hundred page thesis which they submit to the department in April.

Concentrators considering writing an honors thesis should consult with the Concentration Honors Advisor early in the second semester of their junior year. Admission to Honors candidacy requires:

1. An academic record providing evidence of the student's ability to do Honors work.
2. Two Faculty Recommendation Forms, attesting to the student's ability to do Honors work. These forms should be given to two faculty members with whom the student has taken a class in which a major paper was required.
3. A completed Honors Application Form which must be signed by both the prospective honors candidate and a Brown Faculty member who has agrees to be his/her Thesis Advisor.

Anthropology

Anthropology at Brown is a broad discipline that addresses human social and cultural diversity in the present and past. It includes the subfields of sociocultural anthropology, archaeology, biological anthropology, and anthropological linguistics. Anthropology at Brown is intended to provide students with an informed appreciation and deeper understanding of different societies and their practices, beliefs, and values.

Concentrators should select their courses in anthropology in consultation with the concentration advisor. At least nine courses in anthropology are required, including:

1. One of the following sociocultural/linguistic anthropology classes:
   - Introduction to Cultural Anthropology ANTH 0100
   - Culture and Human Behavior ANTH 0200
   - Culture and Health ANTH 0300
   - Sounds and Symbols: Introduction to Linguistic Anthropology ANTH 0800

2. One of the following biological anthropology/archaeology classes:
Candidates for honors should apply to the concentration advisor by the end of their 6th semester, but no later than the 4th week of the 7th semester. An application consists of a brief statement addressing the focus of a proposed thesis and the names and signatures of two faculty members from the Department of Anthropology who have agreed to serve as the student's honors committee—one as honors thesis advisor, the other as a reader. Candidates for honors are required to:

1. Fulfill the standard concentration requirements.
2. Take two additional courses, usually ANTH 1970, which may be used for thesis preparation.
3. Have a majority of A's in the concentration.
4. Submit an approved honors thesis.

Field Work

Concentrators interested in archaeology are urged to obtain training in field archaeology by participating in Brown-sponsored field research, or by participating in an archaeological field school elsewhere.

Applied Mathematics

Standard program for the A.B. degree.

Prerequisite: MATH 0090, 0100 or their equivalent.

Program: Ten additional semester courses approved by the Division of Applied Mathematics, including MATH 0180, 0520, APMA 0350, 0360 and one of APMA 0090, 0160 or CSCI 0040, 0150 or 0170. APMA 0330, 0340 will sometimes be accepted as substitutes for APMA 0350, 0360. Of the unspecified courses four should be chosen from the 1000-level or higher level courses. Substitution of alternate courses for the specific requirements is subject to approval by the division. Concentrators are urged to consider MATH 0540 as an alternative to MATH 0520 and to complete their introductory programming course before the end of their sophomore year.

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Concentrators interested in archaeology are urged to obtain training in field archaeology by participating in Brown-sponsored field research, or by participating in an archaeological field school elsewhere.

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Standard program for the Sc.B. degree.

Eighteen approved semester courses in mathematics, applied mathematics, engineering, the natural or social sciences, including MATH 0090, 0100, 0180, 0520; APMA 0350, 0360, and 1930 or 1940, and one of APMA 0090, 0160, or CSCI 0040, 0150, or 0170. APMA 0330, 0340 will sometimes be accepted as substitutes for APMA 0350, 0360. Of the unspecified courses six should be chosen from the 1000-level or higher level courses. Substitution of alternate courses for the specific requirements is subject to approval by the division.

Applied Mathematics–Biology

Standard program for the Sc.B. degree.

The Applied Math - Biology concentration recognizes that mathematics is essential to address many modern biological problems in the post genomic era. Specifically, high throughput technologies have rendered vast new biological data sets that require novel analytical skills for the most basic analyses. These technologies are spawning a new "data-driven" paradigm in the biological sciences and the fields of bioinformatics and systems biology. The foundations of these new fields are inherently mathematical, with a focus on probability, statistical inference, and systems dynamics. These mathematical methods apply very broadly in many biological fields including some like population growth, spread of disease, that predate the genomics revolution. Nevertheless, the application of these methods in areas of biology from molecular genetics to evolutionary biology has grown very rapidly in with the availability of vast amounts of genomic sequence data.

Required coursework in this program aims at ensuring expertise in mathematical and statistical sciences, and their application in biology. The students will focus in particular areas of biology. The program culminates in a senior capstone experience that pairs student and faculty in creative research collaborations. Applied Math – Biology concentrators are prepared for careers in medicine, public health, industry and academic research.

Requirements:

1. APMA 0350, 0360 (or 0330, 0340), 1650, and another approved 1000-level course
2. Four biology courses agreed upon by the student and advisor (see below for some possible areas of emphasis).
3. MATH 0090, 0100 (or 0170); 0180, 0520 (or an applied math course).
4. CHEM 0330; recommended for some concentrators: organic chemistry; biochemistry.
5. PHYS 0030, 0040 (or equivalents).
6. Two additional courses in applied math, biology, chemistry, math, or physics. At least one of these must be a directed research course that reflects the theme of this program (e.g., APMA 1970; BIOL 1950/1960).

Possible areas of emphasis and suggested courses include:

1. Biochemistry: BIOL 0280; 1270; and CHEM 0350, 0360; 1230, 1240.
2. Cells, tissues, and organs: BIOL 0800 1100; 1190; and/or appropriate bioengineering courses, such as: BIOL 1080; 1090; 1120; 1140.
3. Neurosciences: NEUR courses; APMA 0410.
Applied Mathematics–Economics

The philosophy of this program is to provide sufficient command of mathematical concepts to allow pursuit of an economics program emphasizing modern research problems. Economic theory has come to use more and more mathematics in recent decades, and empirical research in economics has turned to sophisticated statistical techniques. The applied mathematics-economics concentration is designed to reflect the mathematical and statistical nature of modern economic theory and empirical research.

This concentration comes in two flavors, or tracks. The first is the advanced economics track, which is intended to prepare students for graduate study in economics. The second is the mathematical finance track, which is intended to prepare students for graduate study in finance, or for careers in finance or financial engineering. Both tracks of the applied mathematics-economics concentration have A.B. degree versions and Sc.B. degree versions.

Standard program for the A.B. degree (Advanced Economics track):

Prerequisites: MATH 0100, 0520.

Course requirements:

1. Applied Mathematics:
   a. APMA 0350 and 0360. One course from APMA 0160, CSCI 0040, 0150, 0170. One course from APMA 1200, 1210, APMA 1650.
   b. One course from APMA 1200, 1210, 1660, 1670, 1680, 1690, 1700, MATH 1010. No course may be used to simultaneously satisfy (a) and (b).

2. Economics:
   ECON 1130 (or 1110 with permission), ECON 1210, 1630; plus at least three other 1000-level economics courses. Of those three courses, at least two must be chosen from the "mathematical-economics" group. This group comprises ECON 1170, 1470, 1640, 1750 (old number 178), 1810, 1850, 1860, and 1870.

Standard program for the Sc.B. degree (Advanced Economics track):

Prerequisites: MATH 0100, 0520.

Course requirements:

1. Applied Mathematics:
   a. APMA 0350 and 0360. One course from APMA 0160, CSCI 0040, 0150, 0170. One course from APMA 1200, 1210, APMA 1650.
   b. Two courses from APMA 1200, 1210, 1660, 1670, 1680, 1690, 1700, MATH 1010. No course may be used to simultaneously satisfy (a) and (b).

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For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
The undergraduate concentration in Archaeology and the Ancient World provides students with an opportunity to explore the multi-faceted discipline of archaeology while examining the critical early civilizations of the so-called ‘Old World’—that is, the complex societies of the Mediterranean, Egypt, and Ancient Western Asia (roughly equivalent to the ancient Near East). The concentration, with its three distinct but overlapping tracks, is intended to allow students flexibility in structuring their own path through this diverse field of study. The concentration is also designed to allow students to build progressively upon what they have learned, moving from introductory courses to upper level seminars. Research opportunities, through summer fieldwork, museum experience, or independent study projects, are strongly encouraged.

With this concentration, there is one standard concentration, Archaeology and the Ancient World; and two optional concentration tracks, Classical Archaeology, or Egyptian and Ancient Western Asian Archaeology.

Archaeology and the Ancient World is the most exploratory of the concentration tracks, and this option emphasizes material culture studies across the full spectrum of the ancient world. Classical Archaeology is intended for those interested chiefly in the ‘classic’ civilizations of the Mediterranean (Greece and Rome), as well as for those interested in both earlier (prehistoric) and later (medieval) periods in that geographic region. Egyptian and Ancient Western Asian Archaeology is intended for those interested chiefly in the cultures of Egypt and Ancient Western Asia (the ancient ‘Near East’—Anatolia, the Levant, Mesopotamia), from prehistoric through Islamic times.

**Required Courses:**

Each of these shares the following course requirements: the student must take a total of 10 courses, including:

1. One introductory course in archaeological methodology, history and/or theoretical approaches (e.g. ARCH 0050) Archaeological Fieldwork; ARCH 0100 Field Archaeology in the Ancient World; or ANTH 1600 Archaeological Field Work).
2. One introductory course in the methodology, history and/or theoretical approaches of ancient art history (e.g. ARCH 0030 Foundations of Western Art in Antiquity; ARCH 0420 Greek Art and Architecture; ARCH 0520 Roman Art and Architecture; HIAA 0010 Introduction to the History of Art and Architecture).
3. Two cognate courses, not listed primarily by the Joukowsky Institute, which EITHER relate to the study of the ancient world OR to the discipline of archaeology. Outside courses are chosen with the approval of the concentration advisor from appropriate 1000-level (or above) offerings in other departments such as, but not limited to: Ancient Studies, Anthropology, Classics, Egyptology and Ancient Western Asian Studies, Environmental Studies, Geological Sciences, History, History of Art and Architecture, Religious Studies. One term of language study, in any ancient language, may also be counted toward this requirement.

**For Archaeology and the Ancient World, the remaining requirements are:**

1. Two courses in Egyptian or Ancient Western Asian archaeology and art.
2. Two courses in Mediterranean (prehistoric, Greek, Roman, medieval) archaeology and art.

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3. Two cognate courses, not listed primarily by the Joukowsky Institute, which EITHER relate to the study of the ancient world OR to the discipline of archaeology. Outside courses are chosen with the approval of the concentration advisor from appropriate 1000-level (or above) offerings in other departments such as, but not limited to: Ancient Studies, Anthropology, Classics, Egyptology and Ancient Western Asian Studies, Environmental Studies, Geological Sciences, History, History of Art and Architecture, Religious Studies. One term of language study, in any ancient language, may also be counted toward this requirement.

**For Archaeology and the Ancient World, the remaining requirements are:**

1. Two courses in Egyptian or Ancient Western Asian archaeology and art.
2. Two courses in Mediterranean (prehistoric, Greek, Roman, medieval) archaeology and art.

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
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At least two of the courses selected to satisfy requirements #1 and #2 must be at or above the 1000-level.

3. Two additional courses, in EITHER Mediterranean (prehistoric, Greek, Roman, medieval) archaeology OR Egyptian or Ancient Western Asian archaeology and art, at or above the 1000-level.

For Classical Archaeology, the remaining requirements are:

1. One course in Egyptian or Ancient Western Asian archaeology and art.
2. Three courses in Mediterranean (prehistoric, Greek, Roman, medieval) archaeology and art, at least two of which must be at or above the 1000-level.
3. One course in ancient Greek or Roman history (e.g. CLAS 1210, CLAS 1220, CLAS 1310, CLAS 1320).
4. One course in either Ancient Greek or Latin, at a level beyond the first year of study (e.g. GREK 0300, GREK 0400 or LATN 0300, LATN 0400).

For Egyptian and Ancient Western Asian Archaeology, the remaining requirements are:

1. One course in Mediterranean (Bronze Age, Greek or Roman) archaeology and art.
2. Three courses in Egyptian and Near Eastern archaeology and art, at least two of which must be at or above the 1000-level.
3. Two terms of course work in a pertinent ancient language (e.g. Aramaic, Akkadian, Coptic, Classical Hebrew, Middle Egyptian).

Capstone Experience and Study Abroad

For each of the tracks, a capstone experience may be substituted for one of these required courses. With the permission of the concentration advisor, up to three successfully completed courses, from relevant and accredited study abroad programs, may be counted towards the concentration requirements.

Honors Concentrations

An Honors concentration in any of these tracks requires the successful completion of all the standard requirements with the addition of an Honors thesis. For the preparation of this thesis, students will ordinarily enroll in ARCH 1970 (AE 191), during both semesters of the senior year (these courses may not be taken S/NC, nor may they be used to satisfy the standard requirements of the concentration). In order to qualify for honors, students must have received more A’s than B’s in concentration courses completed.

Honors concentrations are recommended for students considering graduate work in the discipline of archaeology. Any student interested in a course of graduate study should speak to the undergraduate concentration advisor as soon as possible, not least for advice about additional forms of preparation. Graduate work in the archaeology of the ancient world, for example, requires knowledge of appropriate ancient, as well as modern, languages. Students should start work on acquiring these skills as early as possible.

The Honors Thesis

The Honors thesis is an extended essay, usually of between 40 and 60 pages in length, written under the supervision of a faculty advisor and second reader. (Where appropriate, the advisor or the reader, but not both of them, may be in a unit other than the Joukowsky Institute for Archaeology and the Ancient World.) The specific topic and approach of the thesis are worked out between the student and the thesis advisor, with assistance from the student's second reader. This process should begin in the latter part of the student's junior year. Details on deadlines for a thesis prospectus, for thesis drafts and for a final public presentation of the work are available on request to the Director of Undergraduate Studies. The completed thesis will be evaluated by the advisor and second reader, who will discuss its strengths and weaknesses with the student; they will also agree a grade for both terms of ARCH 1970 (AE 191).

Evaluation

The Director of Undergraduate Studies will review the student's overall record, in addition to the thesis evaluations. If all requirements have been successfully met, the recommendation will be made that the student graduate with Honors.

Biochemistry

How does life work at the molecular level? This question is at the core of the concentration program Biochemistry.

In earlier years of this discipline, the focus was on structure and function of proteins, nucleic acids, lipids, carbohydrates and small molecules such as vitamins. Today the logical approach and tools of biochemical science are being expanded to new areas in neuroscience, developmental biology, immunology, pharmacology and synthetic biology (the design of analogs of biological systems).

Training in biochemistry begins with a foundation in mathematics, physics, chemistry and biology. Some courses offered in other departments, including engineering, geology and computer science, are also useful.

A key component of this program is the year of hands-on research carried out in collaboration with a faculty member at Brown. Faculty sponsors are drawn from both the Chemistry Department and the Division of Biology and Medicine, and include basic sciences and clinical faculty.

This program provides excellent preparation for future careers in research (academic, government or private industry), health careers, education, technical law, or business (such as the pharmaceutical industry).

Standard program for the Sc.B. degree

Twenty semester courses in biology, chemistry, mathematics, and physics, including the following core requirements:

1. Three courses in physical and organic chemistry (beginning with CHEM 0330; or equivalent credit).
2. Three courses in mathematics, statistics and/or computer science (typically including MATH 0090, 0100, or equivalents).
3. Two courses in physics (typically PHYS 0030, 0040, or equivalents).
4. One course in biophysical chemistry (CHEM 0400).
5. Three courses in biochemistry (BIOL 0280 and 1270, plus CHEM 1230 or 1240).

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
6. Six electives; four taken from the following: BIOL 0200, 0470, 0500, 0530, 1050, 1090, 1100, 1260, 1290, 1310, 1540, 1560, 2200, 2210; NEUR 1020, 1670; CHEM 0500, 1140, 1220, 1230, 1240, 1450; and two from any quantitative science or mathematics course relevant to biochemistry (including courses on the preceding list) and approved by a concentration advisor.

7. Two semester courses of independent research approved by a concentration advisor (BIOL 1950/1960 or CHEM 0970, 0980).

(Note that the mathematics and physics requirements may be satisfied by Advanced Placement credit.)

Concentration Advisors:


Biology

The A.B. and Sc.B. Biology concentrations at Brown provide rigorous training, while permitting a high degree of flexibility that invites students to focus their interests in specific areas. Coursework is drawn from contributions of faculty in each of the five basic sciences departments at Brown, and thus comprise a unified cohort of offerings over a wide spectrum.

The programs are built around a basic tenet that students should establish breadth of exposure across the discipline. Thus we have an AREA requirement, which asks that students include at minimum, one course from each of three Area listings that reflect different levels of organization in biological systems (from molecular all the way to organismal levels).

We place a high value on practical skills and understanding of experimental design; therefore we require students take at least three courses with laboratory/fieldwork components. Also, depth and exposure to cutting edge science is key; so students must include several courses at the advanced (above 1000-) level. The foregoing features ensure a thoughtful and disciplined course of study. The Directed Research/Independent Study courses (BIOL 1950/1960) offer opportunities for in-depth, collaborative research with faculty at the frontiers of their fields. This is a serious, time consuming undertaking, and presumes a foundation of experience with relevant coursework. The research is generally conducted for at least two semesters, and is the path that may lead to Honors upon graduation (with thesis, presentation and academic excellence required, too; more information http://bms.brown.edu/bug/ugres.html).

Students find that the flexibility and depth of either the AB or ScB Biology programs provide excellent preparation for graduate work in the life sciences, as well as for professional study in medicine and other health professions, science teaching, biotechnology, agriculture, wildlife management, business, and law.

Standard program for the A.B. Biology

Parts A and B are required:

Part A (AP scores of 4 or 5 may substitute):

Mathematics: MATH 0090, 0100 (or 0170); or equivalent placement.

Part B, Core Courses

Ten courses, which may be chosen from BIOL and/or NEUR offerings for concentrators, must include:

- BIOL 0200 (AP credit accepted; placement test available).
- At least two BIOL or NEUR courses must be above 1000-level.
- At least three of the BIOL or NEUR courses must include lab or fieldwork.
- The Area requirement must be fulfilled by taking at least one course in each of these groups:

  - Area 1 (Cell/Molecular Biology) BIOL 0280, 0470, 0500, 0510, 0530, 1050, 1060, 1100, 1310; NEUR 1020.
  - Area 2 (Structure/Function) BIOL 0310, 0320, 0400, 0440, 0800, 1100, 1800, 1880; NEUR 0010.
  - Area 3 (Organismal Biology) BIOL 0380, 0390, 0400, 0410, 0420, 0430, 0450, 0460, 1410, 1430, 1800, 1880; ENVS 0490, 1455, 1460.

(No substitutions per above Area lists. If a course is listed in more than one area, it may be used to fulfill one of those; the other must be fulfilled by a different course.)

Options within the Core may include up to two related sciences which are approved courses for science concentrators, as follows:

- GEOL: 0220 or above.
- CHEM: above the prerequisite courses used.
- CLPS (physiological psychology): e.g., 0400, 0110, 0410, 1140, 1193 (formerly PSYC 0470; 0500; 0750; 1020; 1040).
- CSCI: 0040 and above.
- APMA: 0330 and above (except 0420).
- MATH: 0180 and above.
- PHYS: 0470 and above.
- Courses in the history or philosophy of science (e.g., HIST 1190); also BIOL 1920.
- Statistics: e.g., SOC 1100; CLPS 0900 (formerly PSYC 0090; COGS 0090); APMA 0650; MATH 1600; EDUC 1110; ECON 1620.

Note: Related sciences must be above prerequisite level, and suitable for science concentrators.

BIOL 1950/1960, (Directed Research) may be included, but is not required. If a lab project, this can count for ONE of the three lab course requirements, and one advanced course.

Honors: Honors in biology requires a thesis and oral presentation based on a research project (conducted via BIOL 1950/1960), and quality grades in the concentration. Guidelines, a manual, and information on faculty research are available in the Biology Undergraduate Affairs Office (Arnold, Room 124) or at the Research Projects Collection, found at http://bms.brown.edu/ugres.html.

Standard Program for the Sc.B. Biology

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
Biomedical Engineering

Biomedical Engineering is an interdisciplinary concentration designed for students interested in applying the methods and tools of engineering to the subject matter of biology and the life sciences. It is administered jointly by the Division of Engineering and the Division of Biology and Medicine. The educational objectives of Biomedical Engineering are: to prepare students for careers of useful service to society, to engage committed scholars in the productive application of the tools of engineering to the subject matter of biology across the spectrum of research and teaching, to provide opportunities for teamwork, open ended problem-solving and critical thinking. The program's primary emphasis is on developing strong biomedical engineering fundamentals, while allowing students to personalize their curriculum to prepare them for biomedical engineering careers as well as diverse careers in areas such as medicine, law, business, and health care delivery. These objectives address the expected accomplishments of program graduates, primarily in the time period of several years following graduation. The objectives prepare students 1) well versed in the basic sciences of mathematics, physics, and chemistry; 2) fluent in contemporary biology, comfortable with its reductionist traditions and its movement toward a molecular understanding, and familiar with its experimental assays; 3) educated in the tools and skill-sets of engineers, particularly the ability to quantify, synthesize, and integrate, and able to apply these tools both theoretically and experimentally to living systems and other subject matter in biology; 4) well prepared to complete their education and training in further study at the graduate or professional level, and conditioned to recognize the need for such further work; and 5) endowed with the attributes of an education in a leading liberal arts institution: the ability to think clearly, decide fairly, and communicate effectively.

Standard program for the Sc.B. degree

1. Foundation Courses (all required):
   - ENGN 0030 Introduction to Engineering
   - ENGN 0040 Dynamics and Vibrations
   - MATH 0190 (or MATH 0170) Advanced Placement Calculus*
   - MATH 0200 (or MATH 0180) Intermediate Calculus *
   - BIOL 0200 (or NEUR 0010) Introductory Biology/Neuroscience ) **
   - APMA 0330 Methods of Applied Math
   - CHEM 0330 Equilibrium, Rate and Structure
   - CHEM 0350 Organic Chemistry
   - APMA 0650 (or APMA 1650 or SOC 1100) Statistics
   - ENGN 0510 Electricity and Magnetism
   - ENGN 0720 Thermodynamics
   - ENGN 0810 Fluid Mechanics
   - ENGN 1230 Instrumentation Design
   - BIOL 0800 Principles of Physiology

2. Upper Level Bioengineering Courses (all required):
   - ENGN 1110 Transport and Biotransport Processes
   - BIOL 1140 Tissue Engineering
   - ENGN 1490 Biomaterials

3. Additional Upper Level Bioengineering Courses: %

   At least one from:
   - ENGN 1210 Biomechanics
   - ENGN 1220 Neuroengineering
   - ENGN 1400 Analytical Methods in Biomaterials
   - ENGN 1930B Biophotonics
   - ENGN 1930R Molecular and Cell Biology for Engineers
   - BIOL 1210 or BIOL 1220 Synthetic Biology

   At most 2 from:
   - BIOL 1080 Organ Replacement
   - BIOL 1800 Animal Locomotion

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
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Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.

• BIOL 2110 Drug and Gene Delivery
• BIOL 2130 Techniques in Molecular and Cell Science

% Other courses with approval of concentration advisor.

4. Independent Research/Design (one semester required/two semesters strongly recommended):
   • ENGN 1970, 1971 Independent Study, or
   • BIOL 1950/1960 Directed Research/Independent Study

Concentration Advisor:
Karen Haberstroh.

Biophysics

Standard program for the Sc.B. degree

The Biophysical Society’s resource for students notes that “the biological questions with which Biophysics is concerned are as diverse as the organisms of biology”. A defining characteristic of Biophysics is that it is a quantitative science that requires a significant level of competence in physics, chemistry, mathematics, and biology. These areas therefore form the required background coursework for this program, and serve as a springboard to an advanced focus, developed in consultation with a concentration advisor. Advanced foci may include structure-function relations of macromolecules, biomechanics of cell cytoskeleton, biotechnology for drug and gene delivery, molecular mechanisms of membrane transport, sensory signal transduction, for examples. The program also requires a capstone research project that reflects this focus and may be drawn from collaborative research opportunities offered by faculty in biology, chemistry, or physics departments.

Because of this breadth of subject matter, the Biophysics concentration at Brown prepares students for careers in many fields, including academic or industrial research, health careers, teaching and patent law.

Additional detailed information about the field of Biophysics may be found at:

Requirements

1. PHYS 0050, 0060 (or 0070, 0160 - formerly 0080) and 0470.
2. CHEM 0330, 0350, 0360 and one of the following: CHEM 0400, 1140; PHYS 1530 or 1610.
3. MATH 0100 and 0180 (or equivalents).
4. BIOL 0200, and two additional biology courses chosen with approval of the advisor. Examples include courses in cell biology (BIOL 0500, 1050), physiology (BIOL 0800, 1100, 1190, NEUR 1020), pharmacology (BIOL 1260), and biotechnology (BIOL 1090, 1120, or 1140).
5. Six additional intermediate or advanced level courses, chosen from biology (e.g., biochemistry, genetics, physiology, physics, chemistry, and/or computer sciences and mathematics). Examples include biology (BIOL 0280, 0470, 0800, 1190), physics (PHYS 0500, 0560, 0570, 1410, 1420 and 1610), mathematics (MATH 0520), applied mathematics (APMA 0330, 0340), and chemistry (CHEM 1230, 1450 and 1560).
6. At least one semester (two are recommended) of Directed Research in biology (BIOL 1950/1960), chemistry (CHEM 0970/0980) or physics (PHYS 1990).

Concentration Advisors:

Chemical Physics

This concentration provides students with a broad-based understanding in fundamental molecular sciences, as well as a background for graduate studies in physical chemistry, chemical physics, or molecular engineering.

Standard program for the Sc.B. degree

Twenty semester courses in chemistry, physics, and mathematics, with a minimum of four semester courses in mathematics. Core courses are:

CHEM 0330, 0350, 0500, and 1140
PHYS 0070, 0160, and 0470
One laboratory course: CHEM 1160, PHYS 0560, or PHYS 1560
One course in statistical mechanics: CHEM 1150 or PHYS 1530
MATH 0190, 0200, and 0520
Seven courses, primarily at the 1000 or 2000 level, in chemistry or physics
Two semesters of independent study: CHEM 0970, 0980 or PHYS 1990.

Other approved courses in applied mathematics, biology, computer science, geological sciences, or engineering may be substituted for some of the twenty.

Students are advised to take at least six courses in the humanities and social sciences.

Concentration advisors:
Chemistry: Prof. R. Stratt (richard_stratt@brown.edu);
Physics: Prof. I. Dell’antonio (Ian_Dell’antonio@brown.edu)

Chemistry

Standard program for the A.B. degree
Undergraduate Concentration Programs

CHEM 0330, 0350, 0360, 0500, 1140, 1150, 1160, plus two advanced science/math electives,* at least 1 must be a chemistry course.

Note that the physical chemistry courses (CHEM 1140, 1150, 1160) have mathematics and physics prerequisites.

* BIOL 0280 is credited as an elective for the chemistry concentration.

Concentration Advisors

Amit Basu (Amit_Basu@brown.edu)

Standard program for the Sc.B. degree

The Chemistry Department offers a standard concentration for the Sc.B. in Chemistry, and two optional concentration tracks – a Chemical Biology track and a Materials Chemistry track. These tracks are not separate concentrations – your degree will still be an Sc.B. in Chemistry. The Chemical Biology track is designed for students who have a strong interest in the interface of chemistry with biology. The Materials Chemistry track is designed for students who have a strong interest in the interface of chemistry with nanoscience and materials science.

Concentrating in Chemistry – The required/recommended courses for the concentration and two optional tracks are given below.

- **Chemistry concentration**: CHEM 0330, 0350, 0360, 0500, 0970, 0980, 1140, 1150, 1160; 2 Math; 2 Physics; and 7 electives (at least 3 must be Chemistry); 20 total courses

  * BIOL 0280 is credited as an elective for the chemistry concentration.

- **Chemical Biology Track**: CHEM 0330, 0350, 0360, 0400, 0970, 0980, 1140, 1230, 1240; 2 Math; 2 Physics; 3 courses from the following [ BIOL 0280; BIOL 0470; BIOL 0500; BIOL 0510; BIOL 0530; BIOL 0800; NEUR 1020]; and 3 other electives; 20 total courses

- **Materials Chemistry track**: CHEM 0330, 0350, 0360, 0500, 0970, 0980, 1060, 1140, 1150, 1700; 2 Math; 2 Physics; BIOL 1090; and 5 electives, at least 2 must be chemistry courses; 20 total courses *(For students with a more Engineering bent, the following substitutions can be made – ENGR 0030/0040 can be substituted for PHYS; ENGR 0410 can be substituted for CHEM 1150)*

In each of these cases, 0970/0980 should be carried out with a faculty member with an appointment in the Chemistry Department. Research with faculty advisors outside Chemistry may be allowed in some special cases. In this event, the student should a) prepare a proposal for the research to be carried out and b) identify a faculty member in the Chemistry Department who will serve as a second advisor and the second reader for the thesis. A thesis is required to be eligible for graduation with Honors.

Concentration Advisors

Amit Basu (Amit_Basu@brown.edu)

Classics

Programs of concentration may be arranged with emphasis on the ancient languages and literature or on ancient history and culture. There is one standard concentration, Classics, and four optional concentration tracks, Greek, Latin, Greek and Latin, or Sanskrit, from which to choose. All tracks except "Greek and Latin" and "Sanskrit" require the satisfactory completion of eight courses as described below. Programs are flexible and students are encouraged to discuss their plans with the concentration advisor. The introductory courses in Greek and Latin may not usually be counted toward a concentration.

Concentrators are strongly encouraged to integrate their studies in various fields of Classics by writing a senior thesis (which can, but need not, be an honors thesis; is more demanding than an ordinary term paper; and preferably transcends the subject matter of one particular subdiscipline of classics); by participating in a seminar for juniors and seniors (which is designed to provide insight into the relationships among various parts of ancient studies); or by undertaking another kind of senior project that achieves the same goals and is acceptable to the department.

Classics:

1. One course in Greek or Latin on the 1000-level or above.
2. CLAS 1210, 1220 or 1310, 1320 (Greek or Roman history).
3. Five other courses in classics, including classical archaeology, Greek, Latin, Sanskrit, or related areas to be approved by the concentration advisor.

Optional tracks:

Greek:

1. Four Greek courses on the 1000-level or above, at least one of which is to be GREK 1810 or 1820.
2. CLAS 1210, 1220 (Greek history).
3. Two additional courses in classics, including classical archaeology, Greek, Latin, or related areas to be approved by the concentration advisor.

Latin:

1. Four Latin courses on the 1000-level or above, at least one of which is to be LATN 1810 or 1820.
2. CLAS 1310, 1320 (Roman history).
3. Two additional courses in classics, including classical archaeology, Greek, Latin, or related areas to be approved by the concentration advisor.

Greek and Latin:

1. Four Latin courses on the 1000-level or above, at least one of which is to be LATN 1810 or 1820.
2. CLAS 1310, 1330 (Roman history).
3. Two additional courses in classics, including classical archaeology, Greek, Latin, or related areas to be approved by the concentration advisor.

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
3. CLAS 1210, 1220 and CLAS 1310, 1320 (Greek and Roman history).

Sanskrit:

1. Four 1000-level courses in Sanskrit.

2. The requirements for Classics, Greek, or Latin with the provision that courses in Sanskrit beyond the first four may count towards the "five other courses" required of concentrators in Classics, or the "two additional courses" required of concentrators in Greek and of concentrators in Latin. (Students interested in Sanskrit may compare additional courses" required of concentrators in Greek and of Classics, or the "two that courses in Sanskrit beyond the first four may count towards the

Honors

Students may earn honors in each concentration by presenting a satisfactory thesis, for the preparation of which they will ordinarily enroll in the relevant 1970 and 1990 courses; these courses may not be used to satisfy the standard requirements for a concentration. In order to qualify for honors, students must maintain a B average overall.

Cognitive Neuroscience

Cognitive neuroscience is the study of higher cognitive functions in humans and its underlying neural bases. By definition, it is an integrative area of study drawing principally from cognitive science, psychology, neuroscience, and linguistics. There are two broad directions which can be taken in this concentration—one is behavioral/experimental and the other is computational/modeling. In either case, the goal is to understand the nature of cognition from a neural perspective.

Concentration Advisor: Sheila Blumstein (Sheila_Blumstein@Brown.edu, 3-2849).

Standard program for the ScB degree

Concentration Courses

A total of 16 courses are required for the concentration. Each student is required to pass 9 courses designed to introduce students to the foundations (5), systems level and integrative aspects (4) which uniquely define cognitive neuroscience; two laboratory courses; four elective courses; and either a senior seminar course CLPS 1900 (COGS 1950) or an independent research course. The laboratory and elective courses should fit within a particular theme or category such as general cognition, vision, language, or computational/modeling. The design of the concentration and selection of courses should be made in consultation with the faculty advisor.

Foundations:

- BIOL 0200, The Foundation of Living Systems
- CLPS 0200 (COGS 0420), Human Cognition
- CLPS 0900 (COGS/PSYC 0090), Quantitative Methods in Psychology, APMA 1650, Statistical Inference, or CLPS 2906 (PSYC 2060), Experimental Design
- MATH 0090, Introductory Calculus (or the equivalent)
- NEUR 0010, Introduction to Neuroscience

Electives

Four additional courses around a particular theme. Normally only one elective course that is below the 1000-level may count towards the elective courses required. An appropriate (but additional) laboratory course may be used in lieu of one of the four elective courses.

- Primarily behavioral/experimental:
  - BIOL 0450, Animal Behavior
  - CLPS 0040 (COGS 0720), Mind and Brain: Introduction to Cognitive Neuroscience
  - CLPS 0210 (COGS 0480), Human Thinking and Problem Solving

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
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- CLPS 0220 (COGS 0500), Making Decisions
- CLPS 0410 (PSYC 0750), Principles of Behavioral Neuroscience
- CLPS 0500 (PSYC 0440), Perception and Mind
- CLPS 0500 (COGS/PSYC 0440), Perception and Mind
- CLPS 0600 (PSYC 0810), Child Development
- CLPS 0610 (COGS 0630), Children’s Thinking: The Nature of Cognitive Development
- CLPS 0640, (PSYC 0940), Developmental Psychopathology
- CLPS 0800 (COGS 0450), Language and the Mind
- CLPS 0810 (COGS 0320), Biology and Evolution of Language
- CLPS 1100 (PSYC 1800), Animal Cognition
- CLPS 1130 (PSYC 1790), Psychology of Timing
- CLPS 1140 (PSYC 1020), Psychophysiology of Sleep and Dreams
- CLPS 1180B (PSYC 1750A), Biology of Communication
- CLPS 1200 (COGS 1520), Thinking
- CLPS 1210 (COGS 15600), Human Memory and Learning
- CLPS 1220 (COGS 1870), Concepts and Categories
- CLPS 1240 (COGS 1880), Reasoning and Problem Solving
- CLPS 1241 (COGS 1860C), Causal Reasoning
- CLPS 1320 (COGS 1230), Production, Perception and Analysis of Speech
- CLPS 1500 (COGS 1380), Ecological Approach to Perception and Action
- CLPS 1520 (COGS 1200), Computational Vision
- CLPS 1530 (COGS 1860B), 3D Shape Perception
- CLPS 1590 (COGS 1440), Visualizing Vision
- CLPS 1610 (COGS 1180), Cognitive Development
- CLPS 1611 (COGS 1620), Cognitive Development
- CLPS 1620 (COGS 1190), Developmental Cognitive Neuroscience
- CLPS 1650 (COGS 1430), Child Language Acquisition
- CLPS 1800 (COGS 1410), Language Processing
- CLPS 1810 (COGS 1420), Syntactic Theory and Syntactic Processing
- CLPS 1820 (COGS 1480), Language and the Brain
- CLPS 1821 (COGS 1840B), Neuroimaging and Language
- CLPS 1822 (COGS 1500), Subcortical Bases of Language and Thought
- COGS 1050, Music and Mind (MUSC 1310), course no longer offered
- COGS 1470, Language Learning Disorders, course no longer offered
- COGS 1540, The Evolution of Perceptual Systems, course no longer offered
- COGS 1740, Topics in Language Acquisition, course no longer offered
- COGS 1780, Psychological Acoustics, course no longer offered
- COGS 1940, The Cognitive and Neural Basis of Higher-level Vision, course no longer offered
- NEUR 0650, Biology of Hearing
- NEUR 0660, Biology of Vision
- NEUR 1680, Computational Neuroscience
- NEUR 1710, Neuroimaging
- NEUR 1930A, Cognitive Neuroscience: Motor Learning
- NEUR 1930B, From Neurophysiology to Perception
- NEUR 1930F, Brain Interfaces for Humans
- NEUR 1940A, Cognitive Neuroscience
- PSYC 1400, Human Memory, course no longer offered
- PSYC 1780, Psychological Acoustics, course no longer offered
- PSYC 1810, Seminar in Cognitive Neuroscience, course no longer offered

- Primarily Computational/Modeling:

Students are advised to take APMA 0330 (Methods of Applied Analysis I) and APMA 0340 (Methods of Applied Analysis II) as their two supporting science courses. Note that MATH 0100 is a prerequisite for these courses. See CLPS listings (above) for other computational/modeling courses.

- APMA 1360, Topics in Chaotic Dynamics
- COGS 1360, Introduction to Computational Linguistics, course no longer offered
- CSCI 1410, Introduction to Artificial Intelligence
- CSCI 1430, Introduction to Computer Vision
- CSCI 1480, Building Intelligent Robots
- CSCI 1950A, Computational Modeling and Algorithmic Thinking
- ENGN 1220, Neuroengineering
- ENGN 1610, Image Understanding
- NEUR 1680, Computational Neuroscience

Honors

Students who would like to pursue a degree with honors are normally expected to have half of their grades as A (or equivalent) within the concentration and are required to satisfactorily complete a written thesis and an oral presentation.

Cognitive Science

Cognitive science is the study of mental abilities such as perception, memory, thinking, action, speech, and language, and their bases in the brain, using scientific methods of experimentation, computer modeling, and brain imaging. The undergraduate concentration is designed to provide a flexible interdisciplinary approach with four areas of emphasis: perception, cognition, language, and cognitive neuroscience. Course work in related departments is encouraged. A Cognitive Science degree provides excellent preparation for careers in the sciences, computer fields, health professionals, law and education.

The A.B. program requires 13 courses and is primarily for students interested in studying human mental processes. The Sc.B. program requires 18 courses and is intended for students who also have strong interests in an affiliated area such as artificial intelligence, computational modeling, or cognitive neuroscience. Prospective concentrators should register for CLPS 0020 (COGS 0010), preferably in their freshman or sophomore year.

Concentration advisor:

Fulvio Domini, x3-1356, (Fulvio_Domini@Brown.edu).

Standard program for the A.B. degree

Prerequisite: CLPS 0020 (COGS 0010)

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
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Elective Focus Areas

Courses are listed below by areas of study in which the program has particular strengths. Students may also form foci that cut across these areas.

Cognitive Development: CLPS 0610 (COGS 0630), 1610 (1180), 1650 (1430), (1470, no longer offered), 1200 (1520), 1690 (1610), 1611 (1620), (1740, no longer offered), 1240 (1880); ANTH 1210; EDUC 0800, 1270, 1710; CLPS 0680 (PSYC 0810); NEUR 1040;

Cognitive Neuroscience: CLPS 1491 (COGS 1020), (1290, no longer offered), 1820 (1480), 1822 (1500), 1290 (1530), (1540, no longer offered); APMA 0410; NEUR 1030, 1680; ENGN 1220; PHIL 1770; CLPS 0490 (PSYC 0470), 0410 (0750), (1400, no longer offered), (1810, no longer offered);

Computational/Neural Modeling: CLPS 1491 (COGS 1020), 1520 (1200), (1290, 1360, no longer offered); NEUR 1030, 1680; CSCI 0511, 1410, 1480; APMA 0410, 1360;

Human Cognition: CLPS 0210 (COGS 0480), 0220 (0500), 0610 (0630), 1610 (1180), (1290, no longer offered), 1200 (1520), 1290 (1530), 1210 (1560), 1690 (1610), 1241, 1530, 1080A, 1080C or 1280A (1860), 1220 (1870), 1240 (1880); [EDUC 1260; (PSYC 1400, no longer offered); CSCI 1410; ANTH 1210;] PHIL 1550, 1770;

Neurolinguistics: CLPS 0810 (COGS 0320), 1891 (1240), 1890 (1450), (1470, no longer offered), 1820 (1480), 1822 (1500); NEUR 0650, 1030;

Perception and Action: CLPS 1540 (COGS 1160), 1620 (1190), 1520 (1200), (1540, no longer offered); APMA 1360; NEUR 1030; BIOL 0450, 1160, 1400; CSCI 1480; CLPS 0110 (PSYC 0500), 1621, 1180A or 1190B (1750);

Psycholinguistics: CLPS 0800 (COGS 0450), 1340 (1110), 1310 (1210), 1230 (1230), 1891 (1240), 1330 (1310), 1800 (1410), 1810 (1420), 1650 (1430), 1890 (1450), (1470, no longer offered), 1820 (1480), 1822 (1500), 1200 (1520), 1290 (1530), (1540, no longer offered), 1210 (1560), 1690 (1610), 1611 (1620), 1630, 1640, no longer offered), (1670, 1710, no longer offered), (1740, no longer offered), 1389 (1840), 1241, 1530, 1080A, 1080C or 1280A (1860), 1220 (1870), 1240 (1880), 1970 (1970);

Theoretical Linguistics: (COGS 0870, no longer offered), CLPS 1340 (1110), 1341 (1120), 1342 (1130), 1330 (1310), 1360 (no longer offered), 1810 (1420), (1630, 1640, no longer offered), (1710, no longer offered); CSCI 0220, 510, 1410;

Vision: CLPS 1520 (COGS 1200), 1500 (1380), 1590 (1440), (1540, no longer offered), 1241, 1530, 1080A, 1080C or 1280A (1860); PSYC 0270 (no longer offered), CLPS 1510 (1190), (1850, no longer offered); NEUR 0660;

Independent Study is encouraged for the A.B. degree and required for the Sc.B. degree. Students should sign up for CLPS 1970 (COGS 1970) with a faculty advisor who is a member of the Department of Cognitive and Linguistic Sciences. Arrangements should be made in Semester 6 for students expecting to do independent study during Semesters 7 and/or 8.

Degrees with Honors

Students interested in honors under either the A.B. or ScB. programs should identify a faculty honors sponsor and sign up with the
concentration advisor during Semester 6. Although there is no minimum grade point average to enter the program, admission to the program is limited to students who have accumulated a strong academic record and is at the discretion of the department. It is expected that honors candidates will conduct a year-long research project under the direction of a faculty sponsor culminating in a written thesis and oral examination at the end of Semester 8. Students doing honors work may enroll for CLPS 1970 (COGS 1970) for two terms.

**Commerce, Organizations and Entrepreneurship**

**Introduction**

Commerce, Organizations and Entrepreneurship (COE) is a multidisciplinary, multi-track undergraduate concentration that provides students with a rigorous and synergistic program in the study of commercial activity grounded in Economics, Sociology and Engineering. COE focuses on the formation, growth, and organization of new ventures, innovation in commercial applications, financial markets and the marketplace, and management and organizational theory.

Students first complete a set of courses that provide a foundation for further study in one of three tracks. This platform offers a strong and cohesive knowledge base of the basic principles and approaches of organizational theory, economics, engineering and technological innovation, and entrepreneurship and management. The curriculum also offers students several choices to learn statistical analysis, while requiring mastery of appropriate levels of mathematics. Building on this multidisciplinary base, students then focus their course of study on one of the following tracks:

1. business economics,
2. organizational studies, or
3. entrepreneurship and technology management.

Upon completion of all concentration requirements, students receive the Bachelor of Arts (A.B.) degree in Commerce, Organizations and Entrepreneurship.

**The Curriculum**

**Foundation Courses**

All students are required to complete two courses in Economics, two in Sociology, two in Engineering, a Math course, and a Statistics course which together form the foundation of the COE concentration. To see specifically what foundation courses are required based on the track you intend to follow, please refer to the following tables:

**Business Economics**

- ECON 0110 Principles of Economics
- ECON 1110 Intermediate Microeconomics
- SOC 1030 Organizational Theories of Public and Private Sectors
- SOC 1090 Theories of Organizational Dynamics and Decision Making
- ENGN 0020, or ENGN 0030 Transforming Society - Technology and Choices for the Future, or Introduction to Engineering
- ENGN 1010 The Entrepreneurial Process: Innovation in Practice
- MATH 0070, or MATH 0090, or MATH 0050 and 0060 Introductory Calculus Part I
- ECON 1620 Introduction to Econometrics

**Organizational Studies**

- ECON 0110 Principles of Economics
- ECON 1110 Intermediate Microeconomics
- SOC 1030 Organizational Theories of Public and Private Sectors
- SOC 1090 Theories of Organizational Dynamics and Decision Making
- ENGN 0020, or ENGN 0030 Transforming Society - Technology and Choices for the Future, or Introduction to Engineering
- ENGN 1010 The Entrepreneurial Process: Innovation in Practice
- MATH 0070, or MATH 0090, or MATH 0050 and 0060 Introductory Calculus Part I
- ECON 1620 Introduction to Econometrics

**Entrepreneurship and Technology Management**

- ECON 0110 Principles of Economics
- ECON 1110 Intermediate Microeconomics
- SOC 1030 Organizational Theories of Public and Private Sectors
- SOC 1090 Theories of Organizational Dynamics and Decision Making
- ENGN 0030 Introduction to Engineering
- ENGN 1010 The Entrepreneurial Process: Innovation in Practice
- MATH 0070, or MATH 0090, or MATH 0050 and 0060 Introductory Calculus Part I
- ECON 1620 Statistics

**The Tracks**

1. **Business Economics Track**

   In addition to the Foundation courses, students must complete each of the following:
   - ECON 0710 Financial Accounting
   - ECON 1210 Intermediate Macroeconomics
   - ECON 1710 Investments I
   - ECON 1720 Corporate Finance

   Three additional courses from the following list:
   - ECON 1160 Managerial Economics
   - ECON 1310 Labor Economics
   - ECON 1390 Introduction to Research Methods in Economics
   - ECON 1440 Economic Theories of Firms
   - ECON 1450 Economics of Regulation
   - ECON 1460 Industrial Organization
   - ECON 1470 Bargaining Theory and Applications
   - ECON 1480 Public Economics
   - ECON 1500 Current Global Macroeconomic Challenges
   - ECON 1510 Economic Development
   - ECON 1520 The Economic Analysis of Institutions
   - ECON 1540 International Trade
   - ECON 1550 International Finance
   - ECON 1560 Economic Growth
   - ECON 1590 The Economy of China since 1949
   - ECON 1600 Economics of the Middle East
   - ECON 1630 Econometrics I
   - ECON 1750 Investments II
   - ECON 1759 Data, Statistics, Finance
   - ECON 1760 Financial Institutions
   - ECON 1770 Fixed Income Securities
   - ECON 1780 Corporate Strategy
   - ECON 1790 Corporate Governance and Management

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
• ECON 1800 Politics and Finance
• ECON 1810 Economics and Psychology
• ECON 1850 Theory of Economic Growth
• ECON 1870 Game Theory and Applications to Economics

2. Organizational Studies Track

In addition to the COE Foundation courses, students must complete the following:

I. Research Methods in Organizational Studies (2 courses):

A. One introduction to Research Methods, from the following list:

SOC 1050 Methods of Research in Organizations
SOC 1020 Methods of Social Research

Note: These courses introduce the fundamentals of rigorous research design. Substitutions generally will not be allowed. Because SOC 1050 focuses explicitly on organizational research topics, students should take it, if it is offered; however, if SOC 1050 is unavailable, SOC 1020 provides a suitable (and equally rigorous) alternative.

B. One Advanced Research Methods course, from the following list:

SOC 1120 Sample Surveys in Social Research
SOC 1260 Market Research in Public and Private Sectors
SOC 1871F Principles and Methods of Geographic Information Systems
SOC 2020 Multivariate Statistical Methods II
SOC 2220 Advanced Quantitative Methods of Analysis
SOC 2230t Techniques of Demographic Analysis
SOC 2240 Event History Analysis
SOC 2260E Structural Equations Models
ANTH 1940 Ethnographic Research Methods
CSCI 0040 Introduction to Scientific Computing and Problem Solving

† indicates the 2000-level courses listed above that are designed for students with no prior training in the topic and can be taken with no additional requirements.

Note: These courses allow students to deepen and/or broaden their expertise in one or more methods of empirical inquiry. Substitutions may be proposed to the track advisor, provided that they are consistent with the objective of fostering a sophisticated understanding of the methodological tools for empirical study.

II. Additional Coursework in Organizational Studies (3 courses):

A. One Advanced Organization Studies course, from the following list:

SOC 1060 Leadership in Organizations
SOC 1080 Groups in Organizations
SOC 1170 Corporations and Global Cities
SOC 1540 Human Needs and Social Services
SOC 1870A* Investing in Social Change: The Practice of Philanthropy*
SOC 1870R* Groups in Organizations*
SOC 1871G* Social Goals, Motivation, and Behavior in Organizations*
SOC 1871M* Theories of the Third Sector and Civil Society*
SOC 1871O* Law, Innovations and Entrepreneurship*
SOC 2060* Complex Organizations and Health Policy*
SOC 2310* Health Institutions and Professions*
SOC 2960M* Organizational Sociology Graduate Seminar*
DEVL 1800A* The Ethnography of Corporations*
PPAI 1700V Nonprofit Organizations
PPAI 1700Y* Crisis Management*
PPAI 2170 Leadership and Organization
PPAI 2550* Managing and Leading in Public Affairs*
URBN 1870B* Business Networks in Asia*

Note: These courses directly employ and extend the theories and perspectives introduced by the foundational Organization Studies courses. They are either taught by core Organization Studies faculty or vetted on a regular basis by the Organization Studies track advisor, to ensure that they thoroughly incorporate Organization Studies perspectives and focus primarily on organizational processes and phenomena. Substitutions generally will not be allowed.

B. Two Organization-Relevant Electives, from the following list:

Any Advanced Organization Studies course (listed above) Note: No single course can be counted simultaneously toward both the Organization-Relevant Elective and the Advanced Research methods requirements.

Any Advanced Research Methods course (listed above) Note: No single course can be counted simultaneously toward both the Organization-Relevant Elective and the Advanced Research methods requirements.

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
III. Integrative Senior Experience (1 course, selected from the options below):

**Senior Honors thesis** The Integrative Senior Experience requirement can be satisfied by successful completion of a senior honors thesis on an Organization Studies topic, with an advisor or thesis reader drawn from the COE faculty. A thesis that fails to qualify for honors may nonetheless satisfy the Integrative Senior Experience requirement, provided that the student receives a passing grade from the thesis advisor and the COE committee member certifies that the student made a sincere and sustained effort to integrate Organization Studies themes into the project.

**COE capstone coursework** The Integrative Senior Experience requirement can be satisfied by the successful completion of one of the following designated "capstone" sequences with the COE program:

- SOC 1930/1940 (Social Entrepreneurship Capstone I and II)
- ENGN 1930G/1930H (Entrepreneurship I and II)

Note: Both capstone opportunities listed above are two-course sequences, with both semesters being needed to fulfill the Integrative Senior Experience requirement.

**Senior-year seminar** The Integrative Senior Experience requirement can be satisfied by the successful completion of an advanced (senior- or graduate-level) seminar, meeting the following criteria:

The seminar must be taken during the senior year and must either:

- come from the "Advanced Organizations Studies" list above; or
- come from the "Organization-Relevant Elective" list, above and result in a term paper on an "organization studies" topic. Students wishing to avail themselves of this option must obtain prior approval of their paper topic from both the course instructor and the Organization track advisor, and must file a copy of both the topic proposal and the final paper with the Organization Studies track advisor at the end of the semester.

To be a "seminar," a course should meet the following criteria:

1. Limited enrollment: Seminars generally have 30 or fewer students.
2. Discussion format: Instruction in seminar generally takes the form of faculty-led discussion, rather than lecture.
3. Term paper: Seminars generally require a substantial scholarly paper (or equivalent project) at the end of the term.

Courses meeting these seminar criteria from the Advanced Organizations Studies and the Organization-Relevant Elective lists are noted above with an (*).  

Note: (1)The Integrative Senior Experience is intended to provide students with an opportunity to synthesize and solidify knowledge and skills accumulated over the course of the Organization Studies program. This requirement must therefore ordinarily be undertaken during the senior year.

(2) No single course can be counted simultaneously towards both the Advanced Organizational Studies or Organization-Relevant Elective, and the Integrative Senior Experience.

3. Entrepreneurship and Technology Management Track

In addition to the Foundation courses, students must complete the following (other choices may be possible, these would need to be discussed with and approved by the track advisor):

**One technology gateway course, to be chosen from:**

- ENGN 0410 Materials Science (for students interested in functional materials or nanotechnology)
- ENGN 0720 Thermodynamics (for students interested in energy and environmental topics)
- ENGN 0510 Electricity and Magnetism (for students interested in photonics and device technology)
- ENGN 0310 Mechanics of Solids and Structures (for students interested in machine design and instrumentation)
- CSCI 0150 Introduction to Algorithms and Data Structures (for students interested in information technology and computer engineering)
- BIOL 0200 Foundations of Living Systems (for students interested in biotechnology topics)

**Students must also complete the following:**

- EN1930G/1930H - Entrepreneurship I and II - Capstone Project

and a five-course track in a Technology Management Specialization as approved by the COE advisor in Engineering.

Sample courses of interest to students pursuing typical tracks (5 required in each track, selected in consultation with the track advisor) are listed below. Remember—the list of available courses is always changing. Some courses have prerequisites that are not listed, but need to be considered in planning. Also remember, it is not possible to list all specialty tracks; those shown are only samples.

### Biotechnology – Biomaterials

- ENGN 1490 Biomaterials
- ENGN 0410 Materials Science (presumes BIOL 0200 offered as the gateway course)
- BIOL 1120 Biomaterials
- BIOL 0170 Biotechnology in Medicine
- BIOL 1090 Polymer Science for Biomaterials
- ENGN 1930R Molecular and Cell Biology for Engineers
- ENGN 1400 Analytical Methods on Biomaterials

### Biotechnology – Biochemistry

- ENGN 1110 Transport and Biotransport Processes
- CHEM 0350 Organic Chemistry I
- CHEM 0360 Organic Chemistry II
- CHEM 0400 Biophysical and Bioinorganic Chemistry
- BIOL 0280 Introductory Biochemistry
- CHEM 1230 Chemical Biology
- CHEM 1240 Biochemistry

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
Undergraduate Concentration Programs

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.

- CHEM 1220 Computational Tools in Biochemistry and Chemical Biology

Nanotechnology
- ENGN 1930B Biophotonics
- ENGN 1490 Biomaterials
- CHEM 1700 Nanoscale Materials: Synthesis and Applications
- PHYS 0120 Adventures in Nanoworld (First year students only)
- CHEM 0500 Inorganic Chemistry
- CHEM 1060 Advanced Inorganic Chemistry

Information Technology and Computer Engineering
- ENGN 1740 Computer Aided Visualization and Design
- ENGN 1640 Design of Computing Systems
- ENGN 1630 Digital Electronics Systems Design
- ENGN 1650 Embedded Microprocessor Design
- ENGN 1930Z Robot Design
- CSCI 0160 Introduction to Algorithms and Data Structures
- CSCI 0320 Introduction to Software Engineering
- CSCI 0220 Introduction to Discrete Structures and Probability

Machine Design and Instrumentation
- ENGN 0520 Electric Circuits and Signals
- ENGN 0810 Fluid Mechanics
- ENGN 1230 Instrumentation Design
- ENGN 1370 Advanced Engineering Mechanics
- ENGN 0410 Materials Science (presumes ENGN 0310 offered as the gateway course)
- ENGN 0720 Thermodynamics (presumes ENGN 0310 offered as the gateway course)
- ENGN 1740 Computer Aided Visualization and Design
- ENGN 1760 Machine Design
- ENGN 1930M Industrial Design
- APMA 1930Z Robot Design

Energy and Environment
- ENGN 1130 Phase and Chemical Equilibria
- ENVS 0490 Environmental Science in a Changing World
- ENVS 0410 Environmental Stewardship
- ENVS 1400 Sustainable Design in the Built Environment
- ENGN 1930U Renewable Energy Technologies
- ENGN 1340 Water Supply and Wastewater Treatment
- CHEM 0080A First Year Seminar - Energy (First year students only)

Photonics and Device Technology
- ENGN 0520 Electric Circuits and Signals
- ENGN 1590 Introduction to Semiconductors and Semiconductor Electronics
- ENGN 1930B Biophotonics
- ENGN 1630 Digital Electronics System Design
- ENGN 1690 Photonics and Applications
- ENGN 1620 Analysis and Design of Electronic Circuits
- ENGN 1600 Design and Implementation of Very Large Scale Integrated Systems
- ENGN 1580 Communications Systems

Functional Materials
- ENGN 1480 Metallic Materials
- ENGN 1490 Biomaterials
- ENGN 1470 Structure and Properties of Non-Metallic Materials
- ENGN 1420 Kinetic Processes in Materials Science and Engineering
- ENGN 1410 Physical Chemistry of Solids
- BIOL 1120 Biomaterials
- BIOL 1090 Polymer Science for Biomaterials

Community Health

Community Health is an interdisciplinary concentration that examines patterns of and explanations for, population health and disease; health policy; cross-cultural and international aspects of health; the organizational and social structures through which health services are delivered/received; and the public health system. Courses in the concentration demonstrate the ways in which the social, political, behavioral and biological sciences contribute to the understanding of national and international health care systems, resource allocation, and patterns of population distributions of health and disease. The concentration provides students with courses in basic research methods and statistics necessary for problem solving and critical thinking in the emerging emphasis on evidence-based health care and public health.

This concentration is relevant for students with career interests in public health; disease prevention and health promotion; health policy and epidemiology; clinical health care delivery; health care administration; international health, and health law.

Required Courses. There are four required courses: PHP 0310, 0320, 1320, 1910.

Electives. The concentration requires eight elective courses.

A. One from each of the following areas:

1. Environmental Health
2. U.S. Health Care Organization and Policy
3. International Health
4. Social and Behavioral Science for Prevention
5. Human Biology/Physiology
6. Statistics

Community Health is an interdisciplinary concentration that examines patterns of and explanations for, population health and disease; health policy; cross-cultural and international aspects of health; the organizational and social structures through which health services are delivered/received; and the public health system. Courses in the concentration demonstrate the ways in which the social, political, behavioral and biological sciences contribute to the understanding of national and international health care systems, resource allocation, and patterns of population distributions of health and disease. The concentration provides students with courses in basic research methods and statistics necessary for problem solving and critical thinking in the emerging emphasis on evidence-based health care and public health.

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2. U.S. Health Care Organization and Policy
3. International Health
4. Social and Behavioral Science for Prevention
5. Human Biology/Physiology
6. Statistics
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B. Two approved courses in the university that are health-related.

Honors. An Honors track is available. Honors track students are also required to enroll in PHP 1970 in both semesters of their senior year to write the honors thesis.

Concentration Advisor: Dr. William Rakowski
(William_Rakowski@brown.edu).

Honors Thesis Advisor: Dr. Susan Masterson Allen
(Susan_Allen@brown.edu).

Inquiries: Susan Furtado (Susan_Furtado@brown.edu).

Comparative Literature

It is important to begin planning early for a concentration in comparative literature. Interested students should consult with the concentration advisor during Semester III and IV, or earlier yet. More detailed descriptions of the programs are also available on the department website.

To ensure sufficient range, courses should be (1) selected to include each of the three major literary genres: poetry, drama, and narrative; (2) distributed within at least three distinct periods: ancient, medieval, Renaissance, eighteenth century, and modern (nineteenth and twentieth century); (3) drawn from at least two literature departments other than comparative literature. Program I requires at least two advanced literature courses in the appropriate foreign literature department; Program II requires at least two advanced literature courses in each of the appropriate foreign literature departments. Some courses in the program may be drawn as well from nonliterary fields related to literature.

To ensure sufficient focus, students should build a number of courses around a particular coherent aspect of literary study (e.g. period, genre, theme, philosophical or literary problems, relation of literature to another discipline). Students not taking honors are urged (but not required) to complete a senior essay, which may be less extensive in scope and length than an honors thesis but which should constitute an integration of some aspect of their study.

There are three concentration tracks as follows:

Concentration in Literature in two languages

Program

A total of at least ten advanced literature courses (generally 1000-level courses), including COLT 1210, drawn from among the offerings of comparative literature, English, and the appropriate foreign literature department. Honors may be undertaken by completing an acceptable honors thesis in addition to the ten course program.

Prerequisite

To have completed before Semester V the prerequisites for taking 1000-level courses in a classical or modern foreign literature.

Concentration in Literature in three languages

Program

A total of at least ten advanced literature courses (generally 1000-level courses), including COLT 1210, drawn from among the offerings of comparative literature, English, and the appropriate foreign literature departments. Honors may be undertaken by completing an acceptable honors thesis, in addition to the ten course program.

Prerequisites

(1) to have completed before Semester V the prerequisites for taking 1000-level courses in a classical or modern foreign literature; (2) to have completed before Semester VII the same prerequisites for another such literature.

Concentration in literary translation (Honors)

Program

(1) three or four courses in English creative writing, translation, and linguistics. COLT 1710; (2) at least five or six advanced literature courses (generally 1000-level courses), including COLT 1210, drawn from among the offerings of comparative literature, English, and the appropriate foreign literature departments; (3) completion of a senior translation project, equivalent to an honors thesis (for which the student may register in COLT 1990, which will be taken in addition to the ten required courses).

Prerequisite

To have completed before Semester V the prerequisites for taking 1000-level courses in a classical or modern foreign literature.

Computational Biology

Standard program for the Sc.B. degree

The standard concentration, Computational Biology, involves the analysis and discovery of biological phenomena using computational tools, and the algorithmic design and analysis of such tools. The field is widely defined and includes foundations in computer science, applied mathematics, statistics, biochemistry, molecular biology, genetics, ecology, evolution, anatomy, neuroscience, and visualization.

Our program provides a liberal education in these fields that builds on a foundation of coursework and allows students to focus on several possible tracks. The program offers four optional concentration tracks: computational genomics, biological sciences, molecular modeling and applied mathematics and statistical genomics. The program requires a senior capstone experience that pairs students and faculty in creative research collaborations.

Computational Biology graduates are candidates for competitive positions in industry or for training in academic science.

The program offers a standard concentration with four optional concentration tracks from which to choose. Assuming the prerequisites are satisfied, the concentration requires 16 courses, including four track courses and one course for the senior project.

Prerequisites:

- MATH 0100 (Introductory Calculus II) or MATH 0170 (Advanced Placement Calculus)
- BIOL 0200 (The Foundation of Living Systems)

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
• or equivalents

General Core Course Requirements:

• Chemistry:
  o CHEM 0330 (Equilibrium, Rate, Structure)

• Biology:
  o BIOL 0470 (Genetics) Prerequisite BIOL 0200 or equivalent
  o and one of the following:
    o BIOL 0280 (Introduction to Biochemistry)
    o BIOL 0500 (Molecular Cell Biology)

• Computer Science:
  o CSCI 0150 (Intro to Object-Oriented Programming & Computer Science) No Prerequisite
  o CSCI 0160 (Algorithms and Data Structures) Prerequisite CSCI 0150
  o or
  o CSCI 0170 (Computer Science: An Integrated Introduction Part I) No Prerequisite
  o CSCI 0180 (Computer Science: An Integrated Introduction Part II) Prerequisite CSCI 0170
  o or
  o CSCI 0190 (Programming with Data Structures and Algorithms)
  o All students must take:
    CSCI 0220 (Introduction to Discrete Structures and Probability) No Prerequisite

• Probability and Statistics:
  o APMA 1650 (Statistical Inference I)

Computational Biology Core Course Requirements:

• CSCI 1810 (Computational Molecular Biology) Prerequisite (CSCI 0160 or 0180)
• CSCI 0220 (Introduction to Discrete Structures and Probability)
• APMA 1080 (Statistical Inference in Molecular Biology and Genomics)

Capstone Experience:

Students enrolled in the computational biology concentration will complete a research project in their senior year under faculty supervision. The themes of such projects evolve with the field and the technology, but should represent a synthesis of the various specialties of the program. A minimum of one semester of independent study is required (such as BIOL 1950 or CSCI 1970), although many students may conduct a full year of independent study.

Honors:

To be a candidate for honors, a student must have a course record judged to be excellent by the concentration advisor and must complete a thesis judged to be outstanding by the faculty member supervising the work.

Optional Concentration Tracks:

Students must complete six courses in one of the following four tracks, as specified below:

Computational Genomics Track:

This track is designed for students whose interests lie in the development of algorithms and high-quality software (tools and systems) for biological applications. Advisor: Sorin Istrail, Computer Science.

• Three of the following:
  • CSCI 1230 (Introduction to Computer Graphics)
  • CSCI 1270 (Database Management Systems)
  • CSCI 1410 (Introduction to Artificial Intelligence)
  • CSCI 1550 (Probabilistic Methods in Computer Science)
  • CSCI 1570 (Design and Analysis of Algorithms)
  • or other Computer Science courses approved by the concentration advisor

Biological Sciences Track:

This track is designed for students whose interests lean more towards biological questions. Advisor: David Rand, Ecology and Evolutionary Biology.

• At least four courses comprising a coherent theme in one of the following areas:
  1. Biochemistry
  2. Ecology
  3. Evolution/Genetics
  4. Neurobiology

  1. Two courses from the following:
  2. CSCI 1950L (Algorithmic Foundations of Computational Biology)
  3. PHP 2620 (Statistical Methods in Bioinformatics)
  4. APMA 1660 (Statistical Inference II)
  5. BIOL 1430 (Computational Theory of Molecular Evolution)

Molecular Modeling Track:

This track is designed for students who wish to gain competence in the field of molecular modeling and drug design. Advisor: William Suggs, Chemistry.

• CHEM 1560A (Molecular Modeling)
• At least three courses from the following:
  • CHEM 1150 (Thermodynamics and Statistical Mechanics)
  • CHEM 1230 (Bioorganic Chemistry), or CHEM 1240 (Biochemistry)
  • BIOL 0530 (Immunology)
  • BIOL 1260 (Physiological Pharmacology)
  • BIOL 1540 (Molecular Genetics)
  • Two courses from the following:
    • CSCI 1950L (Algorithmic Foundations of Computational Biology)
    • PHP 2620 (Statistical Methods in Bioinformatics)

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
Applied Mathematics and Statistical Genomics Track:

This track is designed for students whose interest focuses on extracting information from genomic and molecular biology data, and modeling the dynamics of these systems. Substitution of more advanced courses with consent of advisor is permitted. Advisor: Zhijin Wu, Community Health.

- At least three courses from the following:
  - APMA 1660 (Statistical Inference II)
  - APMA 1690 (Computational Probability and Statistics)
  - APMA 0340 (Methods of Applied Mathematics I) {or APMA 0330}
  - APMA 0360 (Methods of Applied Mathematics II) {or APMA 0350}
- At least three of the following:
  - BIOL 1430 (Computational Theory of Molecular Evolution)
  - CSCI 1950L (Algorithmic Foundations of Computational Biology)
  - PHP 2620 (Statistical Methods in Bioinformatics)
  - APMA 1070 (Quantitative Models in Biological Systems)

Computer Science

Requirements for the Sc.B. degree.

Prerequisites: (2–3 courses)

- Math
  - An approved math course (any MATH course beyond 0090 except for 0420, or APMA 0330).
- Writing
  - A student must take at least one course that satisfies the CS Department Writing Requirement.

Concentration Requirements (16 or 17 courses):

- Core – Computer Science
  - Six core courses are required:
    - (CSCI 0150 and CSCI 0160) or (CSCI 0170 and CSCI 0180) or CSCI 0190*
    - CSCI 0220
    - CSCI 0310
    - CSCI 0320
    - An approved introductory computer science theory course, currently only CSCI 0510
    *If CSCI 0190 is taken, the student must take an additional 1000-level course to meet the six course requirement.

- Additional Computer Science Courses
  - Seven advanced courses in computer science or related areas are required. Normally these advanced courses must be at the 1000-level or higher. These seven courses must include:
    - Two pairs of courses with each pair forming a coherent theme. A list of approved pairs may be found at the approved-pairs web page.
    - A capstone course: a one-semester course, normally taken in the student's last undergraduate year, in which the student (or group of students) use a significant portion of their undergraduate education, broadly interpreted, in studying some current topic in depth, to produce a culminating artifact such as a paper or software project.
    - Of these seven courses, one must be a theoretical computer science course (CSCI 1490, CSCI 1510, CSCI 1550, CSCI 1570, CSCI 1590, CSCI 1730, or CSCI 1760), a second must be an artificial intelligence course (CSCI 1410, CSCI 1430, CSCI 1460, CSCI 1480, or CSCI 1490), and a third must be a computer science systems course (CSCI 1230, CSCI 1260, CSCI 1270, CSCI 1380, CSCI 1600, CSCI 1610, CSCI 1660, CSCI 1670, CSCI 1680, CSCI 1730, or CSCI 1900). No course may be used to satisfy more than one area requirement.
    - Four of the seven courses must be computer science courses.
    - Among the seven courses may be approved courses in Mathematics, Applied Mathematics, Biology, Engineering, Economics, Music, Cognitive and Linguistic Science, Neuroscience, and other departments that cover material relevant to the student's concentration.
    - See the FAQ for a list of approved courses
- Math
  - A concentrator must also complete two semesters of mathematics or applied mathematics beyond MATH 0100/0170. One of these courses must be a linear algebra course (CSCI 0530, MATH 0520 or 0540).
- Science
  - The student must also satisfy a two-course sequence in one of the following departments:
    - Physics
    - Chemistry
    - Biology
    - Engineering
    - Geological Sciences
  - See FAQ for a list of acceptable courses.

Requirements for the A.B. degree

Prerequisites (2–3 courses):

- Math
  - An approved math course (any MATH course beyond 0090 except for 0420, or APMA 0330).
- Writing
  - A course that satisfies the CS Department Writing Requirement.

Concentration Requirements (8 or 9 courses):

- Core – Computer Science
  - Six core courses are required:
    - (CSCI 0150 and CSCI 0160) or (CSCI 0170 and CSCI 0180) or CSCI 0190*
    - CSCI 0220
    - CSCI 0310
    - CSCI 0320
    - An approved introductory computer science theory course, currently only CSCI 0510
    *If CSCI 0190 is taken, the student must take an additional 1000-level course to meet the six course requirement.

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
Prerequisites (4 or 5 courses):

- CSCI 0320
- An approved introductory computer science theory course, currently only CSCI 0510
- *If CSCI 0190 is taken, the student must take an additional 1000-level course to meet the six course requirement.

Advanced Courses

- Three advanced courses in computer science or related areas required. Normally these advanced courses must be 1000-level or higher. These three courses must include a pair of courses forming a coherent theme. A list of approved pairs may be found at the approved-pairs web page.

Computer Science–Economics

The joint computer science-economics concentration exposes students to both theoretical and practical connections between computer science and economics. The intent of this concentration is to prepare students for either academic careers conducting research in areas that emphasize the overlap between the two fields; or professional careers that incorporate aspects of economics and computer technology.

The concentration is offered in two versions, the A.B. and the Sc.B. While the A.B. degree allows students to explore the two disciplines by taking advanced courses in both departments, its smaller number of required courses is compatible with a liberal education. The Sc.B. degree achieves greater depth in both computer science and economics by requiring more courses, and it offers students the opportunity to creatively integrate both disciplines through a design requirement.

Requirements for the Sc.B. degree.

Interested students may contact concentration advisors in either the Department of Computer Science or in the Department of Economics.

Prerequisites (4 or 5 courses):

- Math
- MATH 0090 and 0100, or 0170; 0520 or 0540;
- ECON 0110.
- Writing
- A student must take at least one course that satisfies the CS Department Writing Requirement.

Required Courses (19 courses):

- Applied Mathematics: APMA 1650.
- Computer Science: (CSCI 0150 and CSCI 0160) or (CSCI 0170 and CSCI 0180) or (CSCI 0190 and a 1000-level CSCI course of the student's choosing).
- CSCI 0220, 0310, 0320, and 0510.
- One of the following tracks:
  - (1) Analytical Track:
  - Two courses from the set: CSCI 1410, 1490, 1550, 1570, 1590, 1760, APMA 1210, 1660. (Only one of the two APMA courses may be used.)
  - (2) Information Systems Track:
  - Two courses from the set: CSCI 1230, 1260, 1270, 1380, 1430, 1480, 1660, 1670, 1680, 1730, 1900.
  - One additional 1000-level CSCI course.

- Note: only one of APMA 1210 and CSCI 1490 may be taken for concentration credit.

- Economics: ECON 1110 or 1130, 1210 and 1630; plus at least five other 1000-level economics courses. Of those five courses, at least three must be chosen from the "mathematical-economics" group. This group comprises: ECON 1170, 1470, 1640, 1750, 1759, 1810, 1850, 1860, 1870, and any graduate level Economics course.

- Capstone Course: a one-semester course, normally taken in the student's last undergraduate year, in which the student (or group of students) use a significant portion of their undergraduate education, broadly interpreted, in studying some current topic (preferably at the intersection of computer science and economics) in depth, to produce a culminating artifact such as a paper or software project.

Requirements for the A.B. degree:

Interested students may contact concentration advisors in either the Department of Computer Science or in the Department of Economics.

Prerequisites (4 or 5 courses):

- Math
- MATH 0090 and 0100, or the single course MATH 0170.
- ECON 0110.
- Writing
- You must take at least one course that satisfies the CS Department Writing Requirement.

Required Courses (13 or 14 courses):

- Applied Mathematics: APMA 1650.
- Seven Computer Science courses are required (six if CSCI 0190 is taken). consisting of: (CSCI 0150 and CSCI 0160) or (CSCI 0170 and CSCI 0180) or CSCI 0190; CSCI 0220, 0310, and 0520;
- And two courses from either of the following tracks:
  - (1) Analytical Track:
  - CSCI 1410, 1490, 1550, 1570, 1590, 1760, and one of APMA 1210, and 1660;
  - (2) Information Systems Track:
  - CSCI 0320, 1230, 1260, 1270, 1380, 1430, 1480, 1660, 1670, 1680, 1730, and 1900.
  - Economics: ECON 1110 or 1130, 1210, 1630, and three other 1000-level courses of which two must be chosen from the "mathematical-economics" group. This group comprises: ECON 1170, 1470, 1640, 1750 (old number 178), 1759, 1810, 1850, 1860, 1870, and any graduate level Economics course.
- Note: only one of APMA 1210 and CSCI 1490 may be taken for concentration credit.

Development Studies

Development studies is designed to provide a comparative perspective on the long-term social, political, and economic changes which have accompanied industrialization and the growth of the modern state in Africa, Asia and Latin America and the historical experience of European countries. Course selection should balance analytic training with local and historical knowledge. In the latter respect, at least two
courses should focus on the developing world. Courses must be taken in at least three social science disciplines in order to have an interdisciplinary approach to these processes of change. All DS students are required to write a senior thesis, DEVL 1990.

Since study abroad is a potentially important part of the concentration, the possibility of spending part or all of the junior year in a developing world country should be discussed with concentration advisors and the Office of International Programs at the earliest possible time. Acquisition of relevant foreign language skills is also considered an important part of training in the study of development, although language courses cannot count for concentration.

Ten appropriate courses should be chosen from the following departmental offerings (see partial listing under Development Studies): Africana Studies; Anthropology; Biology and Medicine: Community Health; Economics; Education; Engineering; Environmental Studies; History; International Relations; Latin American Studies; Modern Culture and Media; Political Science; Portuguese and Brazilian Studies; Religious Studies; Sociology; and University Courses. Development-related courses not listed here may be counted with permission of the program director. Important courses to consider include ANTH 1320, DEVL 1800 seminars, INTL 1800 seminars, POLS 1240, POLS 1420, POLS 1450, POLS 1460, SOC 1050, SOC 1600, and SOC 1620. Concentrators are strongly encouraged to include economics development courses in their program; to facilitate this, students who take economics development courses (e.g., ECON 1510 or ECON 1560) for which ECON 1110 or ECON 1210 is a prerequisite are also allowed to count ECON 1110 or ECON 1210 for the concentration. Alternatively, students may enroll in ECON 0510.

All concentrators are urged to take DEVL 1000 in the sophomore year, or if necessary their junior year, and are required to take the Senior Seminar (DEVL 1980 Thesis Writing in Development Studies) in addition to the ten courses chosen. DEVL 1500, Methods in Development Research is a recommended course, primarily for DS juniors. Concentrators must also complete a thesis in their senior year which serves to integrate the work done in the concentration. Two faculty members must supervise the work and evaluate the final result. Seniors must sign up for DEVL 1990, Senior Thesis Preparation, with their primary advisor.

In order to design a coherent program of study with clearly stated goals, concentrators should discuss their entire program with one of the concentration advisors. They are Gianpaolo Baiocchi, Development Studies and Department of Sociology; Cornel Ban, Development Studies; Keith Brown, Department of Anthropology; Patrick Heller, Department of Sociology; Paget Henry, Department of Sociology; Jose Itzigsohn, Department of Sociology; Jeffrey Kirkman, Watson Institute; Lina Fruzzetti, Department of Anthropology; Louis Puterman, Department of Economics; Daniel Smith, Department of Anthropology; Richard Snyder, Department of Political Science.

Early Cultures

The Program in Early Cultures allows the comparative study of the history, literatures, and religions of Mediterranean and South, East and West Asian antiquity (Rome, Greece, North Africa, Egypt, Anatolia, Mesopotamia, Israel, Iran, Arabia, India, China). Faculty from a variety of academic units (Anthropology, Classics, Comparative Literature, Egyptology, History, History of Art and Architecture, the Joukowsky Institute for Archaeology and the Ancient World, Judaic Studies, Philosophy, Religious Studies) offer courses relevant to Early Cultures. Concentration programs are formulated individually by each concentrator in consultation with the concentration advisor to focus on the study of two ancient cultures or to pursue a topic in several ancient civilizations. Examples of possible topics of research in this concentration include the following: cultural contacts between Greece and Egypt/West Asia; animal sacrifice in Greece and Israel; comparative legal studies: Israel, Hatti, and Mesopotamia; gender roles in Rome and Egypt; and Wisdom literature in Egypt, Israel, and Mesopotamia; the historiography of the exact sciences in India and Greece.

Concentration tracks:
1. History (standard and honors)
2. Religions (standard and honors)
3. Languages and Literatures (honors only)

General Requirements

Each non-honors concentrator will choose to focus on either ancient history or ancient religions and will complete the Concentrators Seminar (ERLY 1000) in both the junior and the senior years, and eight other courses, four in each of two civilizations, or eight in a variety of civilizations.

Honors Requirements:
1. History or Religions (total of up to 12 courses)
   a. The Concentrators Seminar (ERLY 1000) in both the junior and senior years
   b. Two courses on the history or religions of two civilizations (four courses)
   c. Two courses in one ancient language
   d. Two related courses
   e. The honors thesis (one or two courses)

2a. Languages and Literatures (total of up to 12 courses)
   a. The Concentrators Seminar (two courses)
   b. Two 1000-level courses requiring knowledge of Greek or Latin; and two courses requiring knowledge of Egyptian, Hebrew, Aramaic, Akkadian, Sanskrit, or Phoenician (Four courses: two of each of two languages)
   c. Two courses in the literature or culture associated with each of the two languages (For one of these languages, the two courses must be at the advanced level)
   d. The honors thesis (one or two courses)

2b. Languages and Literatures (total of up to 12 courses)
   a. The Concentrator's Seminar (two courses)
   b. Two courses requiring knowledge of two different North African, West or South Asian languages: Egyptian, Hebrew, Aramaic, Akkadian, Phoenician, Sanskrit or Chinese. For one of these languages, the two courses must be at the advanced level. (Four courses: two of each of two languages.)

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
c. Two courses in the literature or culture associated with each of the two languages (four courses: two each for two languages).

d. The honors thesis (one or two courses)

Concentration Advisor: Susan Alcock (Archaeology and the Ancient World), John Bodel (Classics), Stephen Houston (Anthropology).

East Asian Studies

This multidisciplinary concentration is designed to serve students wishing to attain reasonable fluency in Chinese, Japanese, or Korean and specialized knowledge of selected East Asian subjects. Language study through the level of 600 or the equivalent of Chinese, Japanese, or Korean (as part of a study abroad program) is required. History 410, 420 and seven additional courses on East Asia constitute a concentration program. Of the seven additional courses on East Asia, at least one elective must fall outside the primary focus of the concentrator's course of study, which may be defined in linguistic, chronological, thematic or cultural terms. At least one of the seven elective courses must be an advanced research seminar, normally taken in the junior or senior year. One of the seven electives may, with the consent of the concentration advisor, be a course topically unrelated to East Asia, but beneficial to the student's disciplinary and/or theoretical interests. Six of the seven electives should be relatively advanced (usually 1000-level offerings) in the discipline/area in which the student is primarily focused. Concentrators' academic experiences should culminate in their senior project. Concentration advisors (TBD) will guide and supervise students in the planning of individual courses to ensure the development of coherent programs of study.

Honors in East Asian Studies

Candidates admitted to the honors program will, in addition to the nine regular courses, complete East Asian Studies 1930–1940, Research and Writing of the Thesis, working under the direction of a member of the East Asian Studies faculty.

Economics

Economics is the study of the way individuals, businesses, and governments choose to allocate resources to best satisfy their objectives. The study of economics serves a number of purposes: it helps students understand the functioning of markets, of firms, and of financial organizations; it helps students understand public debate about economic policy, including taxation and government expenditure, trade and globalization, health and welfare; it prepares students for graduate study in fields like business and law; and it prepares students for graduate study leading to teaching and research in economics; and it serves as a direct steppingstone towards employment in business, finance, non-profit, and government organizations.

Students are required to begin with ECON 0110, an introductory course that stresses the economic problems of our society, and the vocabulary and principles of economic analysis. Intermediate level courses in microeconomics (ECON 1110), macroeconomics (ECON 1210), and econometrics (ECON 1620) round out the list of foundation courses for the concentration. Economics students must also fulfill a calculus requirement.

The economics department sponsors a number of alternative concentration options. The most popular is the standard economics concentration, described below. Three additional concentration options are administered jointly with other departments and are described separately under their respective titles. They are the concentrations in applied mathematics–economics, in mathematical economics, and in computer science–economics. The first two are especially recommended for students interested in graduate study in economics.

The department offers many of the required courses in an interdepartmental concentration called Commerce, Organizations, and Entrepreneurship (COE). COE is jointly run by the departments of economics and sociology, and the division of engineering. COE has three possible "tracks," one of which, the business economics track, is similar to a business economics concentration that was offered by our department until the early 2000s. Please contact the COE administrator for more details, including information about advising in that concentration.

Standard Economics Concentration

Mathematics Course Requirements:

MATH 0060, 0070, or 0090, or a higher-level math course. Note that certain advanced economics courses may impose additional mathematical prerequisites. The standard mathematics requirement may be met through Advanced Placement tests, but "placing into" a higher level mathematics course than MATH 0090, without actually taking that higher level course, does not satisfy the requirement. The AP mathematics credit must appear on your Brown transcript.

Economics Course Requirements:

ECON 0110. ECON 1110 or 1130, 1210, 1620 or 1630, and at least five other 1000-level Economics courses. The total number of nine required economics courses. In sum, you must complete 10 courses, 1 in mathematics and 9 in economics.

All concentrators in economics programs are encouraged to consult their concentration advisors regularly. Economics concentrators who wish to study abroad should consult first with the department transfer credit advisor.

Honors

Students who wish to enroll in the honors program in economics, or a combined program, should consult the department honors and awards advisor to obtain a complete description of the requirements. Courses taken to prepare an honors thesis are in addition to the regular concentration requirements.

Education (Undergraduate Teacher Education Program)

Note: The Undergraduate Teacher Education Program is not a concentration. It consists of a series of courses which will prepare students for secondary teacher certification.

The Department of Education, in cooperation with other departments, offers a program of study in teacher education leading to certification in secondary school teaching: the Undergraduate Teacher Education Program (UTEP). This program is offered in English, History/Social Studies, Biology/Science Education and Engineering/Physics, and leads to state certification for public school teaching in these fields.

The Undergraduate Teacher Education Program consists of three components: courses in educational theory, courses in the teaching
Education Studies

The Education Department focuses its scholarship and teaching on human learning and development, the history of education, the organization and reform of formal education, and education policy. The Education Studies concentration is designed for students who seek a broad liberal arts background in the field and asks them to select one of two tracks, Human Development or History/Policy. Human Development examines how children and adolescents change over time and how their learning changes, too. History/Policy examines formal education as it evolves within institutions and society, and the implications and consequences of institutional and policy changes.

Education Studies concentrators design a program that includes ten courses, of which at least eight are taken in the Education Department at Brown University. Within Education Studies, concentrators choose one of the two tracks, each designed to enable students to develop critical and creative skills for addressing issues surrounding children, schools, and education.

Course Requirements:

A. EDUC 1100 Introduction to Qualitative Research Methods or EDUC 1110 Introductory Statistics for Education Research and Policy Analysis

B. At least five Education courses in the chosen area of emphasis

C. At least two Education courses outside the chosen area of emphasis

D. Two additional, related courses

Honors

Concentrators seeking to graduate with honors must meet all requirements for the concentration, including a grade-point average established by the Department, and state their plans in writing by the end of their sixth semester. Finally, they must successfully complete EDUC 1990-1991 (Research and Writing in Education) in which they write a 60–70 page thesis under the guidance of a thesis advisor.

Egyptology

A concentration in Egyptology is offered for undergraduates who wish to pursue the bachelor of arts degree; concentrations in other Ancient Near Eastern Civilizations are currently being planned. There are no prerequisites. For a major in Egyptology, students are encouraged to learn German (or French) early in their college careers in order to expand their access to secondary materials. The core of the Egyptology concentration is two years of instruction in ancient Egyptian language and culture (eight courses). Depending on grades and departmental approval, a senior seminar (EGYT 1910) that results in a senior thesis may be taken for honors. In addition to the core courses, others may be taken from related offerings in either language or lecture courses. The department presently offers three variants of its concentration program, but further options can be considered.

1. Program in Egyptian Language and Literature. The program in Egyptian language and literature allows students to pursue more advanced study in Old Egyptian, Late Egyptian, Demotic or Coptic as well as linguistics and other related languages (Greek, Latin, Hebrew, Akkadian, Arabic, and Aramaic). Eight courses are required: Middle Egyptian I and II (EGYT 1310, 1320), Egyptian Texts (EGYT 1330, 1340), Egyptian Literature (EGYT 1410), Ancient Egyptian Religion and Magic (EGYT 1420), as well as two 2000-level language courses (Old Egyptian, Late Egyptian, Demotic or Coptic) as approved by the advisor. This program may be supplemented by courses in related languages.

2. Program in Egyptian Civilization. The program in Egyptian civilization permits specialization in Egyptian culture, including history, literature and religion in addition to language. Eight courses are required: Middle Egyptian I and II (EGYT 1310, 1320), Egyptian Texts (EGYT 1330), Egyptian History I and II (EGYT 1430, 1440), Ancient Egyptian Religion and Magic (EGYT 1420), and two courses in Archaeology of Ancient Egypt (ARCH 0150 and one elective).

3. Program in Egyptian History. The program in Egyptian history stresses this aspect in relation to either Greek, Roman, Early Christian, Judaic, or African history. Eight courses are required: Egyptian History I and II (EGYT 1430, 1440), Middle Egyptian I and II (EGYT 1310, 1320), Egyptian Texts (EGYT 1330), Ancient Egyptian Religion and Magic (EGYT 1420), and two courses in Greek, Roman, Early Christian, Judaic, Ancient Near Eastern or African history. This program may be supplemented by Egyptian History III and IV (EGYT 1450, 1460).

Honors

It is possible for students to receive the A.B. in Egyptology with departmental honors. For this purpose, students will need to write a senior honors thesis according to the following criteria and procedure.

1. Accumulate a 3.5 grade point average by the end of the junior year.
2. At the beginning of the senior year, consult with the department's undergraduate advisor. If the advisor agrees that a senior honors thesis can be undertaken, the student must obtain the agreement of two faculty members (at least one from the department) to serve as readers, and the approval of the department chair.

3. During the first semester of the senior year, prepare a detailed outline of the thesis, with accompanying bibliography, in consultation with both readers. This should result in a thesis plan approved by both readers before the end of the semester.

4. In the second semester of the senior year, register for a Senior Seminar. This will normally involve meetings with the first reader twice a month, and with the second reader monthly, to discuss researching and writing the thesis.

5. Finish writing the thesis before the end of classes in the semester. As a rule of thumb, the thesis should be no more than 100 pages in length, including bibliography.

6. At a half-hour session during the exam period, give a short presentation and defense of the thesis to both readers and any other faculty or students who wish to attend.

### Engineering

**Standard program for the A.B. degree**

Candidates for the bachelor of Arts (A.B.) degree with a concentration in Engineering must complete at least eight approved Engineering courses. The eight courses must include Engineering 0030, and at least two 1000-level Engineering courses. Of these 1000-level courses, one must be a design or independent study course and the other an in-classroom experience. The set of Engineering courses must be chosen so that the student specializes in one particular Engineering discipline, with careful attention to the pre-requisites of the 1000-level courses. Please note that not all engineering courses can be used to satisfy the engineering course requirement for the A.B. degree. For example, ENGN 0020, 0090, 0900, 0930 and 1010 cannot be used to satisfy the engineering course requirement for the A.B. degree. For this reason, it is essential that the set of courses must be developed through consultation with the concentration advisor.

The program must also require preparation in Mathematics equivalent to Mathematics 0200 and Applied Mathematics 0330, as well as at least one college-level science course from the general areas of chemistry, life sciences, physics, or geological sciences. Remedial courses, such as Chemistry 0100, cannot be used to satisfy this requirement. A programming course is also recommended, but not required. The entire program is subject to approval by the Engineering AB concentration advisor and the Engineering Concentration Chair.

Concentration advisor: [Professor Janet Blume](mailto:Janet_Blume@brown.edu).

**Standard programs for the Sc.B. degree**

Standard programs for the Sc.B. degree include seven ABET-accredited degree programs: biomedical engineering, a stand-alone interdisciplinary concentration; and six different tracks in Engineering: chemical and biochemical, civil, computer, electrical, materials, and mechanical engineering. In addition, one interdisciplinary degree program, engineering and physics, is offered. These programs are described in detail in the booklet, [Engineering Undergraduate](http://www.engin.brown.edu/undergrad/guide/index.html).

Students in all of the ABET-accredited degree programs, except Biomedical and Computer Engineering, are expected to successfully complete the seven (or eight) courses ENGN 0030, 0040, 0410, 0510, 0520, 0720, and either 0310 or 0810 (or both in the case of Civil and Mechanical Engineering). Also, they must complete successfully the six courses CHEM 0330, MATH 0190 and 0200 (or equivalent), APMA 0330 and 0340 (or equivalent), CSCI 0040 (or another computing course, subject to approval). Students choosing Chemical and Biochemical Engineering take BIOL 0200 (or higher) instead of CSCI 0040.

Students without one year of secondary school level preparation in calculus should take MATH 0090, 0100 in their first year. These students need to be familiar with multivariable calculus for ENGN 0510, which is often taken during the first semester of the sophomore year. Such students are urged to acquire the necessary math background through self-study, by taking a summer course, or by deferring ENGN 0510 until additional mathematics has been taken. In addition, all students must successfully complete a minimum of four courses in the humanities and/or social sciences. See the entry under 'Biomedical Engineering' and computer engineering for course requirements for these degree programs.

The program of each student must be approved by the Engineering Concentration Committee, which issues more detailed guidelines and program suggestions.

**Chemical and Biochemical Track:**

The concentration is composed of the following courses:

1. The common core program for the Sc.B. (excluding ENGN 0310 and CSCI 0040): ENGN 0030, 0040, 0410, 0510, 0520, 0720, 0810; CHEM 0330; MATH 0190 and 0200; APMA 0330 and 0340; and BIOL 0200.
2. An upper level seven course sequence, including: ENGN 1110, 1120, 1130, 1140 and 1710; plus CHEM 0350; plus one additional chemistry course with a significant laboratory component beyond CHEM 0330 (e.g., CHEM 0360, 0400, 0500, 1170, etc.); and
3. One approved, upper level elective course in the natural sciences, to be selected from the four specific areas of chemistry, physics, life sciences, and materials science. For suggestions of acceptable courses, see the Concentration Advisor.

Concentration advisor: [Professor J. M. Calo](mailto:Joseph_Calo@brown.edu).

**Civil Engineering Track:**

The concentration is composed of the following courses:

1. The common core program for the Sc.B.: ENGN 0030, 0040, 0310, 0410, 0510, 0520, 0720, and 0810; CHEM 0330; MATH 0190 and 0200; APMA 0330 and 0340; CSCI 0040.
2. An advanced sciences course (e.g., GEOL 1580 or 1590).
   - Students interested in Structures, must include the following: ENGN 1300, 1360, 1380, 1930C and 193D (Civil Engineering Project; the latter two courses together count for one course credit), plus one additional course to be chosen from ENGN 1310, 1370, 1740, 1750, and 1860.

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
Undergraduate Concentration Programs

- **Students interested in Environmental Problems and Planning,** must include the following: ENGN 1130, 1300, 1310, 1340, 1360, 1930C and 1930D (Civil Engineering Project; the latter two courses together count for one course credit). Attention is called to the following courses as particularly relevant technical electives: ENGN 1110, 1380, 1710, 1740 and 1860.

Concentration advisor:  
Professor R. J. Clifton, clifton@engin.brown.edu.

### Computer Engineering Track:

The concentration shares much of the core with the other engineering programs, but is structured to include more courses in computer science, and a somewhat different emphasis in mathematics.

There are four elements to the concentration:

1. **Computer Engineering basic core (11):** ENGN 0030, 0040, 0510, 0520; MATH 0190, 0200 (or 0170, 0180); APMA 0330 (or 0350), APMA 1650; one of CHEM 0330 or ENGN 0410; CSCI 0150, 0160 (or 0170, 0180), (or 0040, 0190).
2. **Computer Engineering advanced core (4):** MATH 0520 (or CSCI 0220 or 1570), CSCI 0310, ENGN 1570, and 1630.
3. **Computer Engineering specialties (5):** a. Computer Specialty: ENGN 1620 and ENGN1640; one of ENGN 1580, 1600, 1650, 1680, 2910A, P, W: 2911C, G, X, Y, (or other ENGN courses, subject to approval); two of CSCI 0320, 1260, 1480, 1570, 1670, 1730, 1760, 1900, or other CS courses subject to approval of the Engineering Concentration Committee. b. Multimedia Signal Processing Specialty: APMA 1170; two of ENGN 1580, 1610, 2500, 2520, 2530, 2540, 2560, 2570, 2910X; one of CSCI 0320, 1230, 1410, 1430, 1570, 1900, or other CSCI courses subject to approval of the Engineering Concentration Committee; plus one more course from the above list.
4. **Capstone Course / Independent Study:** ENGN 1970/1971, an independent study relevant to the specialty selected by the student. For the Computer Systems Specialty, ENGN1650 may be used as the Capstone, but then cannot be counted for the ENGN choice above in 3a. The independent study project should provide students with exposure to current research topics. In order to assure satisfactory progress in their independent study, students enrolled will meet at least bi-weekly with their advisors and give two oral reports to the group during the semester. A final written report will also be required. In addition, students will meet as a group with faculty to share ideas and help nurture an environment of collaborative research.

Concentration advisor:  
Professor H. F. Silverman, hfs@lems.brown.edu.

### Electrical Engineering Track:

The concentration is composed of the following courses:

1. **The common core program for the Sc.B.:** ENGN 0030, 0040, 0410, 0510, 0520, 0720, and 0310 or 0810; CHEM 0330; MATH 0190 and 0200; APMA 0330 and 0340; CSCI 0040; and PHYS 0790 or any other 1000-level Physics course.
2. **Seven more courses must included:**
   - Four of these must be: ENGN 1570, 1620, 1630, and one of ENGN 1000, 1930G, ENGN 1970 or 1971.
   - The student shall choose the other three courses to satisfy requirements of a selected specialty area: Bioelectrical Engineering, Communications Systems, Computer Engineering, Multimedia Signal Processing, Microelectronic Systems, or Solid State Electronics and Optoelectronics. (Students should consult the Engineering Undergraduate Programs booklet regarding specific details for each specialty area (available online at http://www.engin.brown.edu/undergrad/guide/index.html).

Concentration advisor:  
Professor H. F. Silverman, hfs@lems.brown.edu.

### Materials Engineering Track:

The concentration is composed of the following courses:

1. **The common core program for the Sc.B.:** ENGN 0030, 0040, 0410, 0510, 0520, 0720, and 0310 or 0810; CHEM 0330; MATH 0190 and 0200; APMA 0330 and 0340; CSCI 0040; and PHYS 0790.
2. **The student must take the following courses:** ENGN 1410, 1420, 1440 and 1000 (or, with permission, ENGN 1970, containing an equivalent design experience relevant to Materials Engineering).
3. **At least three of the following four, upper level materials courses:** ENGN 1450, 1470, 1480, and 1490. These courses are taken in either the junior or senior year.
4. **Upper level courses recommended to satisfy requirements of a selected specialty area, Mechanical Properties and Mechanical Processing, Electrical Properties and Applications of Materials to Solid State Electronics, Chemistry and Materials Processing and Synthesis, or Biomaterials,** may be found in the Engineering Undergraduate Programs booklet available online at http://www.engin.brown.edu/undergrad/guide/index.html.

Concentration advisor:  
Professor D. Paine, David_Paine@brown.edu.

### Mechanical Engineering Track:

The concentration is composed of the following courses:

1. **The common core program for the Sc.B.:** ENGN 0030, 0040, 0410, 0510, 0520, 0720, and 0310 or 0810; CHEM 0330; MATH 0190 and 0200; APMA 0330 and 0340; an approved advanced computer science course; a minimum of four courses in the humanities and social sciences; and PHYS 0790 (recommended for all options except Biomechanics, for which it is BIOL 0800).
2. **Six upper level courses to satisfy requirements of a selected specialty area:** Aerospace Applications, Biomechanics, Energy Conversion and Fluid and Thermal Systems, Engineering Mechanics, or Mechanical Systems: Dynamics, Materials and Design. (Students should consult the Engineering Undergraduate Programs booklet regarding specific details for each specialty area (available online at http://www.engin.brown.edu/undergrad/guide/index.html).

Concentration advisor:  
Professor L. B. Freund, freund@brown.edu.

### Engineering and Physics

The Sc.B. degree program in Engineering-Physics, sponsored jointly by the Division of Engineering and the Department of Physics,
provides students with an in-depth understanding of the fundamental principles underlying modern technology. Specifically, it gives those who are interested in applied technical problems a strong background in physics and mathematics beyond that given in the standard engineering program. Students take a significant part of the usual engineering and physics programs, obtain substantial laboratory experience, and take several upper-level courses focusing on applied physics. The program allows students to take either the standard physics or engineering programs during their freshman and sophomore years and then switch to this combined program.

The total number of physical science courses required for the program is 19. (We assume that a student begins his or her mathematics courses at Brown with MATH 0170 or its equivalent.) The courses are as follows:

1. PHYS 0050, 0060; or PHYS 0070, 0160; or ENGN 0030, 0040.

2. MATH 0170, 0180 (or equivalently, MATH 0190, 0200) and three additional math or applied math courses (two of which are usually APMA 0330, 0340 or APMA 0350, 0360).

3. CSCI 0040 or higher-level programming course such as CSCI 0150.

4. PHYS 0470, 1510, or ENGN 0510, 1560.

5. PHYS 0500 or ENGN 1370.

6. PHYS 1410–1420.

7. PHYS 1530 or ENGN 0720.

8. ENGN 1620.

9. One course from the following: ENGN 0310, ENGN 0810, CHEM 0330, or a physics course on continuum mechanics.

10. One course from the following: ENGN 1690, ENGN 0410, PHYS 0560.

11. One course from the following: PHYS 1560, ENGN 1590, or an approved 2000-level engineering or physics course.

12. A thesis under the supervision of a physics faculty member (PHYS 1990) or engineering faculty member (ENGN 1970 or ENGN 1971).

In addition, students must take four courses in the humanities and social sciences. They are encouraged to consider taking courses dealing with the philosophical, ethical, or political aspects of science and technology.

To accommodate the diverse preparation of individual students, variations of the above sequences and their prerequisites are possible by permission of the appropriate concentration advisor and the instructors involved.

It is required that each student's degree program be submitted for prior approval (typically in semester four) and scrutinized for compliance (in semester seven) by one faculty member from the Department of Physics and one faculty member from the Division of Engineering.

Concentration advisors: A. Zaslavsky (Engineering) and I. Dell'Antonio (Physics).

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.

**Environmental Studies**

**Standard program for the A.B. degree in Environmental Studies.**

Basic prerequisites: Competence in mathematics sufficient to take courses approved for the concentration

**Core Requirements:**

ENVS 0110 Humans, Nature, and the Environment: Addressing Environmental Change in the 21st Century, or an approved alternative/"

3 intermediate level social science or humanities courses appropriate to the student's focus ***, e.g.,

- ENVS 0510 International Environmental Policy
- ENVS 1350 Environmental Economics
- ENVS 1410 Environmental Law and Policy
- ENVS 1710 Environmental Health
- HIST 1790 North American Environmental History

2 intermediate level environmental science courses appropriate to the student's focus ****, e.g.,

- ENVS 0490** Environmental Science in a Changing World
- BIOL 0420 Principles of Ecology
- GEOL 0220 Physical Processes in Geology

Competence in statistics and/or qualitative methods based on the student's focus

ENVS 1920 Analysis and Resolution of Environmental Problems

**Focus:** Four focus courses beyond the introductory level.

**Thesis:** ENVS 1970/1971

**TOTAL # COURSES:** 8 Core + 4 Focus + 2 Thesis = 14 courses

**Environmental Science**

**Standard program for the Sc.B. degree in Environmental Science**

**Basic Requirements:**

Competence in mathematics (MATH 0090, MATH 0100) and chemistry (CHEM 0330)

**Core Requirements:**

ENVS 0110 Humans, Nature, and the Environment: Addressing Environmental Change in the 21st Century, or an approved alternative**/"

2 intermediate level non-science courses appropriate to the student's focus ***, e.g.,

- ENVS 0490** Environmental Science in a Changing World
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- ENVS 1350 Environmental Economics
- ENVS 1410 Environmental Law and Policy
- ENVS 1710 Environmental Health
- HIST 1790 North American Environmental History

3 intermediate level environmental science courses appropriate to the student's focus ****, e.g.,

- ENVS 0490** Environmental Science in a Changing World
- BIOL 0420 Principles of Ecology
- GEOL 0220 Physical Processes in Geology

Competence in statistics, e.g., PHP 2500, PHP 2501 (BC 203, BC 213)

ENVS 1920 Analysis and Resolution of Environmental Problems

**Focus:** Six focus courses beyond the introductory level:

- 5 of 6 must be science courses;
- 3 of 6 must be at the 1000-level;
- a t least one (1) course must have laboratory or field-based component.


TOTAL # COURSES: 3 Basic science + 8 Core + 6 Focus + 2 Thesis = 19 courses. (Advanced placement credit for MATH 0090 or MATH 0090 and MATH 0100 can be used to meet the math competency requirement and reduce the number of required courses).

* Alternatives to ENVS 0110 may include GEOL 0160B Global Environmental Change, ENVS 0070 Environment and Society, or a similar course from transferring institution depending on the student's situation. Substitution requires approval of the concentration advisor.

**A score of 5 on AP exam may be used to satisfy ENVS 0110, ENVS 0490, MATH 0090, or MATH 0100 with permission of the concentration advisor.

***Students are strongly encouraged to take Environmental Economics and an environmental policy course.

****Other intermediate level science courses may be substituted with the approval of the concentration advisor.

Ethnic Studies

Ethnic Studies is an interdisciplinary and comparative concentration that examines the construction of race and ethnicity in social, cultural, historical, political, and economic contexts. Concentrators are required to develop individual programs in consultation with faculty advisors. Each concentrator is required to study the history and experience of more than one group. The focus may be either a United States–based comparative analysis or a United States/international analysis. Each program is to be organized around a set of core courses that help students to identify a set of historical and theoretical questions to be investigated and provide the tools necessary to address those questions.

Each concentrator pursues work in either literature and arts, the humanities, or the social sciences, or some combination of these. The work is to be systematic and well-defined. A faculty advisor works closely with the student to ensure that the work is rigorous and intellectually sound. The primary advisors for ethnic studies concentrators are the members of the Ethnic Studies Executive Committee.

Requirements

The concentration requires ten courses:

1. ETHN 0500 (Introduction to Ethnic Studies);
2. Two of six core courses:
   a. AFRI 0090 or 0100 (An Introduction to Africana Studies)
   b. A section of AMCV 1610 as approved by the concentration advisor
   c. ANTH 1121 (American Indian Cultures)
   d. SOC 1270 (Race, Class and Ethnicity in the Modern World)
   e. ANTH 1400 (Race, Culture and Ethnic Politics) or ANTH 1420 (Ethnicity, Race and Gender in the Americas)
   f. ENGL 0610D (Introduction to Asian American Literature)
   g. Courses taught by core Ethnic Studies faculty may be recognized in consultation with concentration advisor.
3. Three approved courses in ethnic studies that address the student's focus area;
4. Three courses drawn from a list of related courses;
5. ETHN 1900 (Senior Seminar in Ethnic Studies) to be taken in the first semester of the student's final year. The senior seminar is the capstone course and is required of all concentrators.

Honors

Candidates for honors must have at least a B+ average in the concentration and be approved by the Concentration Committee. Honors candidates will propose a thesis project to be completed by the end of their final semester. The development of a thesis project will begin during the sixth semester. Honors candidates will have two readers, at least one of whom must be Ethnic Studies core faculty.

Concentrators who choose not to request consideration for honors will be required to complete a major essay or project by the end of their final semester. The essay or project can be the result of major work completed in the senior seminar.

Students seeking information about the Ethnic Studies Program or in need of advising should contact the Center for the Study of Race and Ethnicity in America (401-863-3080).

French Studies

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
The Department of French Studies offers four standard concentration tracks. Please note that the following apply to the French Civilization, French Literature and French Language tracks:

1. French 600 or equivalent is a prerequisite.

2. The overall requirement is for a minimum of nine courses (ten for Honors).

3. Students are encouraged to take FREN 1020 (History of the French Language); it is required for language concentrators.

4. Two courses per semester abroad may count for concentration credit.

5. The senior seminar (FREN 1900) must be taken during the senior year.

I. French Civilization Track

The concentration in civilization enables students to develop a multifaceted understanding of French and Francophone cultures, histories and contemporary issues. While based in French Studies, the program is interdisciplinary, calling for the integration of elective courses in departments such as History, Africana Studies, History of Art, International Relations, Political Science, etc. A minimum of seven courses are to be taken in French Studies.

Required courses: one upper-level language course (FREN 1510 or 1610), FREN 0750, and FREN 1900.

Elective courses: six courses, including at least four in French Studies (numbered FREN 0760, FREN 1010 and higher; FREN 1410 is highly encouraged) and a maximum of two courses (1000-level or higher) in other departments. A list of extra-departmental electives is posted on the department's web site.

II. French Literature Track

The literature concentration provides a comprehensive view of French and Francophone literature and various types of literary analysis. Introductory courses acquaint students with methods of intellectual inquiry and basic critical approaches. Upper-level courses explore a particular author, literary genre, period, or special topic. Students learn how to use diverse analytical approaches, including semiotic, philosophical, psychological, feminist, and reader-oriented methods of criticism.

Required courses: one upper-level language course (FREN 1510 or 1610), FREN 0760, FREN 1000, and FREN 1900.

Elective courses: five courses numbered 0750, FREN 1010 and higher.

III. French Language Track

The concentration in language combines advanced linguistic proficiency with the study of language as a human phenomenon. It combines course work in French Studies with disciplines that analyze the functioning of language (Cognitive and Linguistic Sciences), use linguistic models to study other fields of human behavior (Anthropology), or provide other specialized insight (e.g., Comparative Literature, Philosophy, Modern Media and Communication).

Required courses: one upper-level language course (FREN 1510 or 1610), FREN 0760, FREN 1000, and FREN 1900.

Elective courses: five courses numbered 0750, FREN 1010 and higher.

IV. French Semiotics Track

This program is offered jointly by the Department of French Studies and the Department of Modern Culture and Media. It is intended for students who wish to receive special preparation in French language and literature, with emphasis on contemporary semiotic theory, and those students whose primary interest is in theory and who wish to strengthen their knowledge of French language, literature, and culture. Students will take five courses in French and five in Modern Culture and Media. Students wishing to declare this concentration must select an advisor from each of the two sponsoring departments. Required courses: two courses in French language FREN 500, 520, 600 or 1510; three upper level courses in French literature, language and civilization; an introductory course in Modern Culture and Media MCM 150, two or three additional courses in semiotic theory, and one or two courses in semiotic production.

Honors: Students who qualify for Honors are eligible to apply to do an Honors project or thesis. Applications will be screened by both MCM and French Studies. (Application forms should be submitted by prospective honors students in the beginning of the 7th semester. They are available in the MCM office.) If approved, a student must then register for MCM 1990 or FREN 1990, a one-credit thesis course in which they complete the Honors project.

Further information on French Concentration Tracks and the Honors Programs is available on the department's web site or from the Director of Undergraduate Studies.

Gender and Sexuality Studies

Gender and Sexuality Studies is an interdisciplinary concentration in which students examine the construction of gender and sexuality in social, cultural, political, economic, or scientific contexts. Each concentrator will focus on a well-defined topic or questions and work closely with a concentration advisor to develop a program that investigates this focus area rigorously and supplements it with foundational courses in the relevant disciplines. Typical areas of focus might include the acculturation of gender, sexuality and race in American politics or activism; the construction of sexual and gendered identities in educational institutions or in various forms of visual media; a contrast between different cultural understandings of sexual identity, a particular national literature and history. Such topics will frequently bring questions of gender and sexuality together; however, students may also organize their concentrations to emphasize questions specifically related to gender or to sexuality if they wish. Introductory
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and methodology courses in the disciplines appropriate to the focus will help students understand the principles grounding such practices as historical research, literary interpretation, and sociological analysis.

Requirements:

The concentration requires 10 courses, 11 for honors concentrators.

1. GNSS 0120. Introductory course on gender and sexuality across the disciplines
2. Four–course focus on some thematic, theoretical, or historical aspect of gender and sexuality
3. Two introductory or methodology courses in disciplines pertinent to the focus
4. One course in gender history, women's history, or history of sexuality
5. One course in feminist theory or theory of sexuality
6. One capstone course, which may include
   o an appropriate upper–level seminar from another department, to be approved by the concentration advisor
   o an independent study with a faculty member; this project may incorporate a community work component, if appropriate to the student's focus
   o for honors, a two–semester honors thesis supervised by a faculty advisor and a second reader

Honors

Candidates for honors must apply to the program's director in their sixth semester. Honors concentrators fulfill the regular requirements, completing a two–semester thesis as their capstone project.

Interested students should contact the concentration advisor: Suzanne Stewart-Steinberg (Suzanne_Stewart-Steinberg@brown.edu). For more information, including current cross-listed courses and sample concentration plans, please consult the concentration webpage (www.pembrokecenter.org/IP_UndergraduateProgram.asp).

Geological Sciences

Standard program for the A.B. degree

This program provides a broad introduction to the geological sciences. Recommended for students seeking a liberal education and a general understanding of Earth processes and Earth history. Especially attractive for double concentrations, such as geology and economics as a career path to law or business, or geology and English as a career path to journalism or technical writing.

1. Four basic supporting science courses:
   a. CHEM 0330 (or advanced placement).
   b. Three of the following: mathematics: MATH 0090, 0100 or more advanced; physics: PHYS 0050, 0060 or more advanced; engineering: ENGN 0030, 0040 or more advanced; and biology: BIOL 0200 or more advanced.

2. Nine concentration courses:
   a. GEOL 0220, 0230, 0240.
   b. Two of GEOL 1410, 1420, 1450.
   c. Two of GEOL 0310, 1110, 1240, 1330 (or 1710), 1580, or a field course.
   d. Two additional courses from upper level geological sciences, mathematics, or supporting sciences with approval from the departmental concentration advisor.

Standard program for the Sc.B. degree

This program is recommended for students interested in graduate study and careers in the geosciences and related fields.

1. Five basic supporting science courses:
   a. Two courses in mathematics at the level of MATH 0090, 0100 or more advanced.
   b. CHEM 0330 (or advanced placement).
   c. PHYS 0050, 0060, or ENGN 0030, 0040 or more advanced. (Advanced placement may be substituted for the first semester of physics.)

2. Fourteen (14) concentration courses:
   a. GEOL 0220, 0230, 0240, 0310, 1240, 1410, 1420, 1450, and a field course.
   b. Four courses from upper level geological sciences, mathematics, or supporting sciences with approval from the departmental concentration advisor.
   c. GEOL 1970 (Senior Research Thesis).

Geology–Biology

Standard program for the A.B. degree

This program emphasizes interrelations between biological and geological processes including an understanding of the origin and development of life as interpreted from the geologic record, evolution of climate and environments, and dynamic processes in the stratigraphic record. Prepares students for work in environmental issues, geology, ecology, oceanography, or global change.

1. Four basic supporting science courses:
   a. BIOL 0200 (or more advanced).
   b. CHEM 0330 (or advanced placement).
   c. Two courses in mathematics and/or physics and/or engineering at the level of MATH 0090, 0100, PHYS 0050, 0060, or ENGN 0030, 0040; or more advanced.

2. Ten (10) concentration courses:
   a. GEOL 0220, 0230, 0240, 0310, 1240.
   b. Three Biology courses such as (but not limited to) BIOL 0410, 0420, 0430, 0470, 0480, 1420, 1430, 1880, and ENVS 1450.

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
Standard program for the Sc.B. degree

This program is recommended for students interested in graduate study and careers in geobiology and related fields.

1. Five basic supporting science courses:
   a. BIOL 0200 (or more advanced).
   b. CHEM 0330 (or advanced placement).
   c. PHYS 0050 or ENGN 0030, or more advanced.
   d. Two courses in mathematics at the level of MATH 0090, 0100, or more advanced.

2. Fourteen (14) concentration courses:
   a. GEOL 0220, 0230, 0240, 0310, 1240.
   b. Three Biology courses such as (but not limited to) BIOL 0410, 0420, 0430, 0470, 0480, 1420, 1430, 1880, and ENVS 1450.
   c. Two upper level geological sciences courses such as (but not limited to) GEOL 1100, 1110, 1120, 1130, 1330, 1350, 1370, 1380.
   d. Three additional courses from upper level geological sciences, upper level mathematics, or supporting sciences with approval from the departmental concentration advisor.

   e. GEOL 1970 (Senior Research Thesis).

Geology–Chemistry

Standard program for the A.B. degree

This program emphasizes geochemical processes and phenomena on and within the Earth. Recommended for students seeking a liberal education and interested in applying physical and chemical principles toward an understanding of Earth history, Earth processes, and environmental and resource issues.

1. Three basic supporting science courses:
   a. PHYS 0050, 0060; or PHYS 0070, 0160; or ENGN 0030, 0040.
   b. CHEM 0330 (or advanced placement).

2. Eleven (11) concentration courses:
   a. GEOL 0220, 0230, 0250, 1610.
   b. Two from GEOL 1410, 1450, 1620 (courses related to solid Earth dynamics); GEOL 1330, 1350, 1580 (courses related to climate and the environment).
   c. Three courses in mathematics, including APMA 0330.
   d. PHYS 0470; or ENGN 0510.
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German Studies

Standard program for the A.B. degree

The Concentration in German Studies offers students an interdisciplinary approach to German culture in a wide variety of areas. Along with courses from the German Studies core program, students have the opportunity to take courses from other departments and programs that deal with topics from the German cultural tradition (including History, History of Art and Architecture, Judaic Studies, Modern Culture and Media, Music, Philosophy, Political Science). Many students elect to complete a double concentration, combining German Studies with one of the above areas, or with fields such as International Relations or Economics, Comparative Literature or History of Art and Architecture. A special joint concentration in Modern Culture and Media Studies - German is also offered.

Concentrators are expected to develop a course of study that will meet their particular needs and interests. In order to do this, students select an area of focus for their concentration, in consultation with the concentration advisor and other appropriate faculty. They should select at least three advanced courses in this area.

Knowledge of the German language is not required for declaring a concentration in German Studies. However, since language fluency is the basis for sophisticated understanding of German culture, students must meet a language requirement by the time they graduate.

Concentration Requirements

- Nine courses beyond GRMN 0400 or 0450;
- At least six of the nine courses must be at the 1000-level (or higher);
- Two of the 1000-level courses must involve writing assignments in German, and students must obtain at least a grade of B in these courses;
- At least five of the nine courses must be taken in the Department of German Studies (or four if a student spends a whole year in Germany on Study Abroad);
- Completion of a Senior Seminar during the senior year (GRMN 1900) as part of the five courses within the Department of German Studies; and
- If a student studies abroad for one semester, as many as four courses, in the case of two semesters, as many as five courses, from study abroad may count toward the concentration.

Honors

Candidates for honors will be expected to have a superior record in departmental courses and will have to be approved by the Department of German Studies. Honors candidates must take one additional course at the 1000-level from the German studies offerings and present an acceptable Senior Honors Thesis. The additional course may be used for preparation of the honors thesis. Students are encouraged to discuss their thesis topics with the concentration advisor no later than the third week of classes in Fall of their Senior year.

Hispanic Studies

The Hispanic Studies concentration offers four tracks.

Prerequisite for all four tracks: HISP 0600 or placement.

Track A: Hispanic Literature and Culture

1. Both HISP 0730, and HISP 0740; at least one of these courses must be taken before any 1000-level courses.

2. Four 1000-level courses in Peninsular literature and culture, one of which should be on Medieval and Early Modern literature and culture (until 1800); one on Post-Enlightenment literature and culture (1800 - present); and two electives.

3. Four 1000-level courses in Spanish American literature and culture, one of which should be on Discovery to Independence literature and culture (until 1830); one on post-Independence literature and culture (1830 - present); and two electives.

4. Seniors must take a Capstone Course, normally designated HISP 1900, which may be used in place of one of the above 1000-level requirements.

With the approval of the concentration advisor, up to four courses from study abroad can be applied towards concentration requirements.

With the approval of the concentration advisor, up to three 1000-level electives may be replaced by courses in relevant fields other than Hispanic literature and culture (i.e., anthropology, comparative literature, history, political science, etc.).

Track B: Interdisciplinary Peninsular Literature and Culture.

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
1. Both HISP 0730, and HISP 0740; at least one of these courses must be taken before any 1000-level courses.

2. Eight 1000-level courses in Peninsular literature and culture, one of which should be on Medieval and Early Modern literature and culture (until 1800); one on post-Enlightenment literature and culture (1800 - present); and six electives.

3. Seniors must take a Capstone Course, normally designated HISP 1900, which may be used in place of one of the above 1000-level requirements.

With the approval of the concentration advisor, up to four courses from study abroad can be applied towards concentration requirements, provided that they have been approved by the concentration advisor.

With the approval of the concentration advisor, up to four 1000-level courses may be replaced by courses in relevant fields other than Peninsular literature and culture (i.e., anthropology, comparative literature, history, political science, etc.).

Track C: Interdisciplinary Latin American Literature and Culture.

1. Both HISP 0730, and HISP 0740; at least one of these courses must be taken before any 1000-level courses.

2. Eight 1000-level courses in Spanish American literature and culture, one of which should be on Discovery to Independence literature and culture (until 1830); one on post-Independence literature and culture (1830 - present); and six electives.

3. Seniors must take a Capstone Course, normally designated HISP 1900, which may be used in place of one of the above 1000-level requirements.

With the approval of the concentration advisor, up to four courses from study abroad can be applied towards concentration requirements, provided that they have been approved by the concentration advisor.

With the approval of the concentration advisor, up to four 1000-level courses may be replaced by courses in relevant fields other than Peninsular literature and culture (i.e., anthropology, comparative literature, history, political science, etc.).

Honors:
Students are normally required to have an A average in their concentration courses before being considered for the Honors Program. Those interested in writing a Senior Thesis should discuss this possibility with the instructor they want as their thesis advisor during the spring semester of their junior year. Applications are due by the third week of a student's seventh semester at Brown.

History

Requirements for the classes of 2012.5 and before.

In the broadest sense, history entails the study of chronologically and culturally diverse societies, considered singly and comparatively. The aim of a History concentration is to provide students with appreciation of different approaches to the study of the past and to encourage them to develop an understanding of the ways in which societies and cultures change over time. At the time of declaring a History concentration, all students must decide, in consultation with their concentration advisor and other members of the department, what particular combinations of courses will best fulfill these objectives in accordance with the following requirements:

1. Basic Requirement: A concentration in History consists of a minimum of ten semester-long courses; of these, at least eight (seven in the case of students who spend more than one semester at another institution; see "Transferring Courses" below) must be offered by the Brown University History Department.

2. Field of Focus: Upon declaring a concentration in History, students must define the area of history that will be the primary focus of their program. The field may be defined by place (such as South Asian history), by time and place (such as modern European history), or by topic (such as environmental history). Students are expected to complete a minimum of four courses in the primary area of focus.

3. Geographical Distribution: Concentrators must distribute their ten-course minimum across at least three of the eight geographic areas listed below, with a minimum of four courses in one area, three courses in a second area, and two courses in one or more other areas.

- Africa
- East Asia
- Europe
- Middle East
- Latin America
- North America
- South Asia
- Other (such as comparative, historiography, or international)

4. Chronological Distribution: All concentrators must distribute their courses between the pre-modern and modern periods, with at least three units in each period. Courses listed in the Banner Catalog are designated "P" for pre-modern, "M" for modern, and "E" for either. Students may elect to count courses designated as "E" as either pre-modern or modern.

5. Introductory Courses: Courses 1-199 include the History Department's "gateway" surveys and first-year seminars as well as other courses designed for students who desire an introduction to a particular topic. A maximum of two such courses may be counted toward the ten-course minimum for the History concentration. However, since the department encourages students to take a freshman seminar, those doing so may apply that seminar to the ten-course minimum as well, to make a total of three courses numbered 199 or below. Additionally, students are advised to take a survey sequence HIST 0010-0020, 0410-0420, or 0510-0520. Students planning to make East Asian history their primary area of focus must normally complete HIST 0410 and 0420. It is advisable for students planning to make European history their primary area of focus to take both HIST 0010 and 0020. As noted in Item 7 ("Honors"), HIST 1992, 1993, and 1994 comprise the honors sequence and may not be used to fulfill concentration requirements.

6. Advanced Undergraduate Seminar: All concentrators must complete at least one advanced undergraduate seminar HIST 1970's. These seminars are designed to provide students with an opportunity to delve deeply into a historical problem and, in most cases, write a major research and/or analytical paper which serves as a capstone experience. Students considering writing a senior honors thesis are advised to take an advanced seminar in their junior year.
7. **Honors:** Students who contemplate enrolling in the honors program in History should obtain the departmental brochure describing the requirements and meet with the honors advisor. Prospective honors students must take HIST 1992 during the second semester of their junior year. Students who are abroad that semester are excused from this requirement, but, as a result, it is more difficult for them to prepare to write their theses. They should find an advisor and settle upon a topic before they leave for their term of foreign study. Students in the honors program must complete HIST 1993 and 1994 during their senior year. HIST 1992, 1993 and 1994 are in addition to the ten courses required for concentration. For additional information, please consult the History Department website: www.brown.edu/Departments/History/

8. **Transferring Courses:** The History Department encourages students to take history courses at other institutions, either in the United States or abroad, as well as history-oriented courses in other departments and programs at Brown. Students may apply two courses taken in other departments/programs at Brown to the ten-course minimum for the History concentration. Students who spend one semester at another institution may apply to their concentration a maximum of two courses, and those who spend more than one semester at another institution may apply to their concentration a maximum of three courses.

Students wishing to apply such courses must present to their concentration advisor written justification that those courses complement some aspect of their concentration. Transferred courses from other Brown departments may not be applied toward the chronological distribution requirement; courses transferred from other institutions may be applied toward the chronological distribution requirement so long as they clearly are history courses.

For foreign study, it is normally expected that students will have declared their intention to concentrate in History and have their courses required for concentration. For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu). Students who choose a geographical focus must provide a thematic or chronological rationale for the coherence of courses with a broad chronological span. Students who are interested in a thematic or transnational focus (such as Science, Technology, Environment and Medicine or the Ancient World) may include courses from different geographic areas. All students should consult a concentration advisor early in the process. All fields are subject to approval by the concentration advisor.

9. **Regular Consultation:** Students are strongly urged to consult regularly with their concentration advisor or a department advisor about their program. During the seventh semester, all students must meet with their concentration advisor for review and approval of their program.

**Requirements for Class of 2013 and Later**

In the broadest sense, history entails the study of chronologically and culturally diverse societies, considered singly and comparatively. The aim of a History concentration is to provide students with an appreciation of different approaches to the study of the past and to encourage them to develop an understanding of the ways in which societies and cultures change over time. At the time of declaring a History concentration, all students must decide, in consultation with their concentration advisor and other members of the department, what particular combinations of courses will best fulfill these objectives in accordance with the following requirements:

1. **Basic Requirement:** A concentration in History consists of a minimum of ten semester-long courses; of these, at least eight (seven in the case of students who spend more than one semester at another institution; see “Transferring Courses” below) must be offered by the Brown University History Department, including x-listed courses.

2. **Introductory Courses:** Students may count no more than two lecture surveys numbered 0520 or lower and only one HIST 09707 or HIST 0980 seminar toward the concentration requirements. It is recommended that concentrators in their first or second years take HIST 09707 or HIST 0980 for a seminar-based introduction to historical reasoning, discussion, and writing.

3. **Field of Focus:** Upon declaring a concentration in History, students must define the area that will be the primary focus of their program. The primary field of focus must include minimum of four courses. The field may be defined by geographical regions (see #4), by geographical regions with thematic or chronological emphases, or by topic.

Students who choose a geographical focus must provide a thematic or chronological rationale for the coherence of courses with a broad chronological span. Students who are interested in a thematic or transnational focus (such as Science, Technology, Environment and Medicine or the Ancient World) may include courses from different geographic areas. All students should consult a concentration advisor early in the process. All fields are subject to approval by the concentration advisor.

4. **Geographical Distribution:** Concentrators must distribute nine of the ten required courses as follows: four courses in the primary geographic area. Thereafter, five courses in two or more secondary areas, with a maximum of three in any of these areas. Comparative and transnational courses may count for the geographical requirement with the approval of the concentration advisor. The geographic areas are:

- Africa
- East Asia
- Europe
- Latin America and the Caribbean
- Middle East and South Asia
- North America

5. **Chronological Distribution:** All History Department courses are designated “P” for pre-modern, “M” for modern, and “E” for either pre-modern or modern. Concentrators must complete at least three courses in the pre-modern period and three courses in the modern periods. Two of the courses must be designated “P” and two must be designated “M”. Courses designated “E” may fulfill the requirements for a third course in each category.

6. **Capstone Seminar:** All concentrators must complete at least one capstone seminar (HIST 1970 and HIST 1980 series courses or an approved x-list seminar). These seminars are designed to serve as an intellectual culmination of the concentration. They provide students with an opportunity to delve deeply into a historical problem and to write a major research and/or analytical paper which serves as a capstone experience. Ideally, they will be taken in the field of focus and during the student’s junior or senior year. Students considering writing a senior honors thesis are advised to take an advanced seminar in their junior year.

7. **Honors:** To be admitted to the honors program, students must have achieved two-thirds “quality grades” in History department courses. A “quality grade” is defined as a grade of “A” or a grade of “S” accompanied by a course performance report indicating a performance at the “A” standard. Honors is normally a three-semester process, with...
students taking HIST 1992, "History Honors Workshop for Prospective Thesis Writers," one semester and HIST 1993, "History Honors Workshop for Thesis Writers," for two semesters. Both classes will be offered every semester, so students may begin the process in either their 5th or 6th semester.

HIST 1992 is strongly recommended but not required. The class may count as one of the 10 courses required for graduation in history. Students may be admitted into HIST 1993 in one of two ways.

- 1. By receiving a grade of A- or above in HIST 1992.
- 2. By submitting a thesis prospectus of equivalent quality (A- or above) no later than the first day of their 7th semester. This method of entry into HIST 1993 is geared especially, but not limited to students who have spent their junior year away from Brown.

Students who take HIST 1992 in the 5th semester can finish the thesis in the 7th semester. Students who take HIST 1992 in the 6th semester will finish it in the 8th semester.

Students who contemplate enrolling in the honors program in History should consult the department website. They are also encouraged to meet with the Director of Undergraduate Studies, who serves as the honors advisor.

8. **Transferring Courses:** The History Department encourages students to take history courses at other institutions, either in the United States or abroad, as well as history-oriented courses in other departments and programs at Brown. Students may apply two courses taken in other departments/programs at Brown to the ten-course minimum for the History concentration. Students who spend one semester at another institution may apply to their concentration a maximum of two courses from other departments or institutions, and those who spend more than one semester at another institution may apply to their concentration a third course transferred from another institution.

Students wishing to apply such courses must present to their concentration advisor justification that those courses complement some aspect of their concentration. Courses from other Brown departments may not be applied toward the chronological distribution requirement; courses transferred from other institutions may be applied toward the chronological distribution requirement so long as they clearly are history courses.

It is normally expected that students will have declared their intention to concentrate in History and have their concentration programs approved before undertaking study elsewhere. Students taking courses in Brown-run programs abroad automatically receive University transfer credit, but concentration credit is granted only with the approval of a concentration advisor. Students taking courses in other foreign-study programs or at other universities in the United States must apply to the Transfer Credit Advisor.

Final transfer and concentration credit will not be granted until the student successfully completes the course(s) and returns to Brown. Approval by the department advisor for transfer credit will be contingent on satisfactory course content and performance (to be demonstrated by documents such as a transcript showing the grade, syllabi, notes, papers, exams, etc).

9. **Regular Consultation:** Students are strongly urged to consult regularly with their concentration advisor or a department advisor about their program. During the seventh semester, all students must meet with their concentration advisor for review and approval of their program.

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
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1. Four general lecture courses (HIAA 0010 through HIAA 0040 and HIAA 0110 through 0940) distributed between three of the seven available areas of the discipline (see list below)

2. Two seminar courses (numbered between HIAA 1040 and 1890)

3. Two additional courses (either seminars or lectures), preferably in the student's chosen area of focus (see below).

Distribution:

Students should take courses in three of the following seven areas:

- Ancient
- Medieval
- Islamic
- East Asian
- Latin American
- Early Modern (ca. 1400-1800)
- Modern/Contemporary

Honors:

Students who have done outstanding work in concentration courses and who wish to integrate their studies in a special two-semester project may apply to the honors program. One course of the two-course sequence may be counted as one of the two required seminars. Course requirements remain the same as in the standard concentration pattern. Thus, honors candidates will complete nine courses in the concentration. Students who wish to write an honors thesis must apply to the honors program in the late spring of their junior year. They must have an "A" average in the concentration, and should have already spoken with a faculty member who would be an appropriate advisor for the thesis. Students will be notified of the success of their applications before the end of the spring semester. Students who are graduating in December will not be eligible to take part in the honors program, but are encouraged to speak with the concentration advisor about an alternative writing project if they wish.

Architectural Studies Track

The architectural studies concentration, within the Department of History of Art and Architecture, blends a variety of disciplines toward the study of buildings and the built environment. The concentration prepares students for the continued study of architecture and the history of architecture in graduate school as well as careers in related areas such as urban studies.

The concentration requires four lecture courses and two seminars in the history of architecture and urbanism that are offered by the Department of History of Art and Architecture. One of the seminars is a project seminar, taken in junior or senior year, which is designed as a capstone experience for the architectural studies concentrator. Courses that may be counted toward the concentration are listed with an "A" at the end of the course description.

Because the architectural studies program is especially designed for students wishing to gain greater experience in the practical skills necessary for a career in architecture or a related field, concentrators are required to take a course in design either from the Visual Art department or at another accredited venue chosen in consultation with the concentration advisor. Students are encouraged to take pertinent courses from such departments or programs as the Institute for Archaeology and the Ancient World and the Departments of American Civilization, Engineering, Mathematics, History, Modern Culture and Media, Urban Studies, and Visual Art. They may receive concentration credit for some of these courses in consultation with the concentration advisor.

Study abroad can be a valuable enrichment of the academic work available on campus. It offers opportunities for first-hand knowledge of architecture and the built environment as well as providing exposure to foreign languages and cultures. Study abroad should be planned in consultation with the concentration advisor in order to make certain that foreign course work will relate meaningfully to the concentrator's program of study.

Only two courses taken outside the department may count for concentration credit (including courses taken abroad and at other institutions in the U.S.). These credits will be counted as lecture courses, not seminars. From time to time a seminar in a related department may be accepted for seminar credit in consultation with the concentration advisor.

Requirements:

The concentration consists of 8 courses (9 for honors):

1. Four lecture courses distributed over three areas in architectural history (numbered between HIAA 0020 and 0040, and HIAA 0110 and 0940):
   - Ancient
   - Medieval
   - Islamic
   - East Asian
   - Latin American
   - Early Modern (ca. 1400-1800)
   - Modern/Contemporary

2. One seminar in architectural history (numbered between HIAA 1100 and 1890).

3. The project seminar (HIAA 1910 or acceptable substitute to be chosen in discussion with the concentration advisor) is required of all concentrators and is taken in the junior or senior year. Priority is given to architectural studies concentrators. Students are advised to complete their seminar and architectural drawing requirements before taking the project seminar.

4. One studio art course in design.

5. One additional course. This can be a course in art or architectural history offered by the Department of History of Art and Architecture, or a course in an outside department, which is pertinent to architectural studies. Possibilities include (but are not limited to) MATH 0090 and 0100, PHYS 0030 and 0040, ENGN 0030, urban studies courses, and scenic design and technical production (Department of Theatre Arts and Performance Studies).

It is expected that concentrators will wish to focus on a particular period (e.g. ancient, modern architecture), a particular branch of the field (e.g. urbanism), or a methodology (e.g. semiotics, critical interpretation, archaeology), but students are encouraged to formulate their own coherent program of study.

While knowledge of foreign languages is not required for the concentration, concentrators who mean to continue their studies in

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
architectural history beyond the bachelor's degree should be aware that language skills are a necessary part of all graduate work.

Honors:

The honors thesis may evolve out of a project seminar or it may be an independent project. Requirements are the same as in the History of Art and Architecture concentration. Students who wish to write an honors thesis must apply to the honors program in the late spring of their junior year. They must have an "A" average in the concentration, and should have already spoken with a faculty member who would be an appropriate advisor for the thesis. Students will be notified of the success of their applications before the end of the spring semester. Students who are graduating in December will not be eligible to take part in the honors program, but are encouraged to speak with the concentration advisor about an alternative writing project if they wish.

Human Biology

Human biology is an interdisciplinary concentration whose goals are to provide a rigorous foundation in the biological sciences with substantive course work in humanities and social sciences. This approach is based on the understanding that biology and human impacts are inextricably related within the fields represented in each of the four program tracks: Human Health and Disease; Race and Gender; Brain and Behavior; and Ecosystems, Evolution and Environment.

The program includes background courses, biology core courses, a set of theme courses, and a Senior Capstone activity. Background courses provide the essential foundations in chemistry, mathematics, methods, and basic biology. These support the Biology core comprised of a flexible menu of intermediate and advanced courses. A required portion of the Biology core is Genetics, which is considered a cornerstone of human biology and its interface with other fields.

The Biology core underscores the related coursework within the chosen Track. The Tracks are built of predominantly social science and humanities courses and must form a cohesive, thoughtful grouping. Suggested track subfoci must be discussed and approved by an advisor. It is expected that these course selections will evolve over the course of the student’s college career, as each semester’s experience builds on the previous ones.

Finally, the human biology program requires a Senior year CAPSTONE course or experience, which should build on the program’s theme. The capstone may be a research project, an advanced seminar, or an academic internship.

Students who complete the Human Biology program are prepared for a variety of professional paths and graduate programs. Examples include health careers, clinical psychology, environmental law, conservation, academic science, epidemiology, health education, and teaching.

A.B. Program:

- Required courses:

  1. MATH 0090; CHEM 0330; BIOL 0200 (or equivalents).

  2. Statistics or Methods course (chosen with advisor's approval); examples: CLPS 0900 (formerly PSYC 0090/COGS 0090); SOC 1100; APMA 0650, 1650; EDUC 1110; PHP 2120 and others; MATH 1600; ECON 1620.

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3. Biology: Five courses including:

   a. Genetics, which can be fulfilled in the following ways:
      - BIOL 0470 (Genetics)
      - or
      - BIOL 0480 (Evolutionary Biology) PLUS 0500 (Cell & Molecular Biology)
      - or
      - BIOL 0480 (Evolutionary Biology) PLUS 0510 (Microbiology)
      - NOTE: These latter two options involve TWO courses both of which would therefore count as part of the biology course portion of the program. Also, BIOL 0480 serves as the organismal/population biology course that is required, if desired.

   b. One course in structure, development, and physiology such as BIOL 0300, 0310, 0320, 0400, 0440, 0800, 1310, 1880; NEUR 0010.

   c. One course in organismal/population biology such as BIOL 0360, 0390, 0400, 0410, 0420, 0430, 0450, 0460, 0480, 1410, 1480, 1880; ENVS 0490, 1460 .

   d. Two biology (BIOL or NEUR) courses that relate to and support the chosen theme (see below); at least one of these at the advanced level.

4. Tracks: Choose one of the four Tracks and take four additional courses, usually chosen from outside BIOL offerings. These MUST form an approved, cohesive grouping.

   a. Human Health and Disease: These courses are usually chosen from these Depts: ANTH, PHP, CLPS (PSYC, COGS), EDUC, SOC, HIST.
      - Examples of subthemes for Health and Disease:
        - Health Behavior
        - Health Education
        - Health Systems Structure and Policy
        - Culture and Health
        - International Health
        - Women's/Children's Health

   b. Race and Gender: Courses focusing on culture, gender, history, and race: AFRI, AMCV, ANTH, PHP, BIOL, CLPS (COGS, PSYC), EDUC, HIST, POBS, SOC.
      - Examples of subthemes for Race and Gender:
        - Individual development of racial, ethnic identity in the U.S. or elsewhere
        - Race and gender in comparative cultures
        - Gender expression in specific racial or ethnic populations in the U.S. or elsewhere

   c. Brain and Behavior: Courses in ANTH, CLPS (COGS, PSYC), NEUR, EDUC, and SOC dealing with behavioral science.

   d. Ecosystems, Evolution and Environment: CLPS (COGS, PSYC), ENVS, GEOL, ANTH courses dealing with evolution, behavior, communication, the environment.

STIPULATIONS for Track courses:

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
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- All courses to be included must be approved by the advisor, and represent a coherent grouping.
- Track courses should be taken mainly outside of biological sciences, in keeping with the interdisciplinary intent of the program.

5. Senior Capstone Activity: May be fulfilled by an independent study such as Directed Research Project (BIOL 1950/1960); a suitable advanced course or seminar; or an appropriate internship. The Capstone activity must be approved by the concentration advisor. Honors in Human Biology is based on research, thesis and presentation (see http://bms.brown.edu/bug/ugres.html).

NOTE: The inclusion of independent study courses (such as BIOL 1950/1960) within this program, and their fulfillment of the advanced level course requirements are subject to approval by the advisor.

Sc.B. Program:

Same as the A.B. program with the following additions:

1. CHEM 0350
2. A sixth advanced biology elective
3. A fifth advanced Theme course
4. Capstone must be an approved, for-credit, research project expected for at least two semesters.

Capstones in Human Biology

Sample Capstones in Human Biology may be found at: http://bms.brown.edu/bug/hb_capstones.html

Advisors:

Overseeing all Programs and initial consult: Marjorie Thompson.

Human Health and Disease—Lundy Braun; Sharon Swartz; Marjorie Thompson; Peter Heywood; Peter Shank; Andrew Campbell; Mary Hixon (except class of 2011).

Race and Gender—Marjorie Thompson.

Brain and Behavior—Robert Patrick; Marjorie Thompson.

Ecosystems, Evolution and Environment—Marjorie Thompson; Sharon Swartz.

Independent Concentration

Independent concentrations represent a distinctly personal and individualized approach to undergraduate education. An independent concentrator creates his or her own program of study, organizing a body of courses from several departments around a central theme, topic, or set of related inquiries. The approach and coursework draw on different existing departments, but the concentration must articulate a coherent field of study, with a disciplinary focus and cohesive connection between its various components. This program encourages students to strengthen their skills in a subject or area of knowledge that is academically rigorous and intellectually rewarding.

The independent concentration must explore some question or field of study that cannot be explored in a similar way in one of the standard concentrations available at Brown. Like all concentration programs at Brown, independent concentrations must articulate how the concentration is part of the Liberal Arts program at Brown, and must, therefore, accord with Brown’s Mission Statement. Concentrations that focus on vocational, technical, or business training of the kind not offered at Brown will not be accepted.

International Relations

The International Relations (IR) concentration is a rigorous and comprehensive program that maximizes student choice with cross-disciplinary training and strong international skills. The objective is to foster creative thinking about pressing global problems and equip students with the analytic tools, language expertise, and cross-cultural understanding to guide them in that process. To this end, the concentration draws on numerous departments including political science, history, economics, anthropology, sociology, psychology, religion, and environmental studies. It also incorporates courses from the humanities and has a 3-year language requirement. The IR concentration is organized around a multidisciplinary core and the sub-themes of global security, political economy and development, and culture and identity. It offers a quality honors program in which students undertake thesis research on an international topic.

The program is divided into three tracks or themes, from which concentrators must select one:

- Global Security
- Political Economy and Development
- Politics, Culture, and Identity

Each track brings together a set of courses which focuses broadly on each of these themes. Overall, concentrators in international relations must take eleven courses approved for the concentration (no double-counting within concentration) plus fulfillment of the language requirement.

1. The core courses (4 courses) Required for all students, preferably to be taken during their freshman or sophomore years. These four courses provide a multidisciplinary conceptual basis for approaching international relations. Advanced Placement credit does not count toward the concentration. The four courses are:

   - POLS 0400: Introduction to International Politics
   - ECON 0110: Principles of Economics or ECON 1210 Intermediate Macroeconomics
   - HIST: a modern (20thC) regional History course
   - One of the following: ANTH 0100: Introduction to Cultural Anthropology, ANTH 1232: War and Society, ANTH 1251: Violence and the Media, SOC 0150 Economic Development and Social Change, or SOC 1620: Globalization and Social Conflict

2. The Tracks (3 courses from ONE track) Take two courses form the website track list and one of the following track keystones courses:

   - Global Security:
     - ANTH 1232, War and Society
     - POLS 1390, International Organization and World Politics
     - POLS 1480, Theories of International Relations
     - POLS 1560, American Foreign Policy
   - Political Economy and Development:
     - ANTH 1320, Anthropology and International Development: Ethnographic Perspectives on Poverty and Progress

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- ECON 1500, Current Global Macroeconomic Challenges
- ECON 1510, Economic Development
- POLS 1420, Money and Power in the International Political Economy
- POLS 1450, Political Economy of Development
- SOC 1600, Comparative Development

- Politics, Culture and Identity:
  - ANTH 1230, Political Anthropology
  - ANTH 1232, War and Society
  - ANTH 1233, Ethnographies of Global Connection: Politics, Culture and International Relations
  - POLS 1380, Ethnic Politics and Conflict

3. **Regional Focus** (1 course) Student choice: Course on one region or country, from a historical or contemporary perspective in the social sciences. (see IR website for more information).

4. **Electives:** (1 course 1000-level or above) Student choice: Course must contribute to track and overall coherence of the student's program and be approved by the concentration advisor.

5. **Research Methods** (1 course) A quantitative or qualitative research methods course (see IR website for list). Recommended prior to senior year.

6. **Senior Seminar:** INTL 1800 (1 course) One IR or IR-XLIST seminar taken junior or senior year (see IR website for list).

7. **Language Requirement** Three full years of university study or equivalent (see IR website).

Detailed lists of courses that satisfy these requirements may be obtained from the IR program website: www.watsoninstitute.org/IR.

The program is administered by affiliated faculty from different departments at Brown. It has a director, an assistant director/concentration advisor, and a faculty advisor for each track to assist students in planning their academic programs.

**Italian Studies**

It is quite possible to concentrate in Italian studies without having studied the language before coming to Brown, although doing so requires an early start. Having fulfilled the language requirement (Italian 0600), students will be able to enroll in a variety of advanced courses taught in Italian, reflecting the interdisciplinary scope of Italian studies at Brown (including literature, history, history of art and culture). Students are strongly encouraged to take Italian Studies courses taught in English before fulfilling the language requirement.

The concentration requires that students demonstrate proficiency in the Italian language by completing up to Italian 0600 (or the equivalent in Bologna). Italian 0600 is the first language course that counts toward the eight required courses for the concentration. At least four of the eight courses should be taken in Italian.

**Italian Studies Concentration and the Brown Program in Bologna**

Concentrators who enroll in the Brown in Bologna program should fulfill the requirements according to the following sequence: prior to departure, the student should complete the level of Italian language study required (Italian 0300) and enroll in one of the courses in the four distribution areas -- Italian literature; Italian History; history of Italian art and architecture; film or performance. Upon return from Bologna, the student should enroll in at least one advanced course offered by the department, preferably a course taught in Italian. Any student returning from the Bologna program must enroll in a course above the language level of Italian 0600.

Credits toward the Italian Studies concentration may also be transferred from the Brown in Bologna Program. Concentrators may count three courses per semester toward the concentration (or six courses total for the year), although the course content must focus on Italy if the student wishes to count the course toward the concentration requirements. Concentrators should consult the concentration advisor to know which courses may or may not transfer as credits toward the concentration.

**Honors in Italian Studies**

Concentrators are encouraged to expand their understanding of Italian language, history, or culture through independent research that will result in a thesis, a translation, or a multimedia project, developed in consultation with the undergraduate concentration advisor and the individual faculty member who will advise the student’s project. The Honors thesis in Italian Studies is a two-semester thesis. Students who intend to complete an honors project should enroll for the first semester in Italian Studies 1920 (Independent Study), and have their project approved by their advisor by October 15. During the second semester, students enroll in Italian Studies 1990 and continue to work with their advisor to complete the project. Italian Studies 1990 does not count as one of the eight courses required for the concentration.

**Capstone experiences in Italian Studies**

A Capstone experiences in Italian Studies would consist of a course or project that a student, in consultation with the undergraduate advisor, feels would integrate the various intellectual engagements of this interdisciplinary concentration, and constitute a culminating experience in Italian Studies at Brown. Such experiences are strongly encouraged, and should be arrived at through conversations with the concentration advisor or a professor in the department. This could include the Brown Program in Bologna, typically taken in the Junior year, and/or the honors thesis in the senior year. However, students may also apply early in the Fall or Spring semester of their senior year for permission to designate one of their courses (1000-level or above) a Capstone course. In consultation with the professor, students in Capstone courses complete an independent research, writing, or multimedia project that is well beyond the required assignment for the course. Italian Studies 1920 (Independent Study) may also be designated a Capstone course with the permission of the instructor.

**Judaic Studies**

The concentration in Judaic Studies allows students to learn how several academic disciplines deal with a single subject, the study of Jews and Judaism. The principal disciplines represented in the Program are History, Language (Hebrew, Aramaic), Literature, Religious Studies, and Sociology. The Program thus joins humanistic and social scientific approaches to learning. The educational goal of the concentration is to show how different scholarly disciplines approach the study of Jews and Judaism in different chronological settings ranging from biblical times to the present. This interdisciplinary approach aspires to two goals: first, it aims to instill in students some substantive understanding of the historical, religious, literary, philosophical, sociological and political experiences of the Jews; second, it demonstrates how scholars of diverse academic disciplines frame questions and answer them, thus providing the student with some understanding of what it means to approach the same subject with different perspectives and methodologies. The concentration requires a year of course work in Hebrew, for the Hebrew language is one of the strands that unifies the history of Judaism from ancient to modern times, and a knowledge of Hebrew is indispensable for any serious study of Judaism.
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Required Coursework

• Six topical courses in Judaic Studies
• JUDS 0110 and JUDS 0120 Introduction to Modern Hebrew
• Two additional JUDS courses either topical or language

Topical courses (non language courses)

• Upon declaring a concentration in Judaic studies, students must define the area of study that will be the primary focus of their program. The field may be defined as an historical period (ancient/modern), as a discipline (humanities/social science), or as a topic (religion, culture, history, language/literature, etc.). Students are expected to complete a minimum of four courses in their area of focus, but the final number will be finalized in discussion with the concentration advisor.
• Of the six required topical courses, four must be taken in the Judaic Studies Program at Brown.
• Of the six required topical courses, at least one should focus on the ancient period and one should focus on the modern period.
• Of the six required topical courses, at least one should be an 1000-level seminar or another advanced course (including independent study) approved by the concentration advisor in the student's area of focus.
• In either their junior or senior year, all concentrators will be required to take a seminar in Judaic Studies that focuses on a specific comparative and historical theme. The goal is to provide an interdisciplinary and integrated experience for Judaic Studies concentrators. The theme will vary from year to year, depending on faculty interest, and will always involve the participation of several faculty members in Judaic Studies coordinated by one Judaic Studies faculty member. Potential topics include but are not limited to: Jewish Ethnicity and Religion; Jewish-Non-Jewish relationships; Jewish Families; Jews in Cities; Gender and Jewishness; Jewish intermarriages; the literature of the Jews. Preferably, the seminar will be taken in the senior year.
• All students are required to designate an advanced departmental course as the capstone for his or her concentration. Within the frame of this capstone course, the concentrator will write a final course paper, which displays the student’s concentration focus, addressing in an appropriate way the theoretical and interpretive issues of the concentration focus. Students are encouraged to fulfill this requirement in the comparative Judaic Studies seminar.
• In consultation with the concentration advisor, students may petition for the right to apply up to two courses taken in other departments/programs at Brown to the ten required for the Judaic Studies concentration. These courses must relate directly to the student’s focus and provide a comparison of a Judaic topic with some other relevant topic.
• Students who study at other institutions, either in the United States or abroad, may apply a maximum of two topical courses to their concentration in Judaic Studies. Hebrew language courses may also be transferred.
• In consultation with the concentration advisor, students may apply up to two advanced language courses (JUDS 0150 or 0300) to the six required topical courses for the concentration.

Language Courses

• One full year of Elementary Hebrew. Generally, this requirement will consist of two courses in Modern Hebrew (JUDS 0110 and JUDS 0120) or the equivalent as determined by a proficiency examination. Students who pass the proficiency exam are encouraged, but are not required, to continue the study of Hebrew (for example, Intermediate Hebrew, JUDS 0130 and JUDS 0140; Writing and Speaking Hebrew, JUDS 0150). Fulfillment of the Hebrew requirement through examination does not reduce the requirement to take ten courses for the concentration.

Honors Thesis

A candidate for honors in Judaic Studies will write a thesis in the senior year. In order to be considered a candidate for honors, students will be expected to maintain an outstanding record (at least A-) in Judaic Studies courses. The honors thesis, which fulfills the capstone requirement, will normally be written as a two-semester individual study project (JUDS 1970). At the end of the senior year, the thesis advisor (a faculty member of the Judaic Studies Program), and a second reader, chosen by the thesis advisor in consultation with the student, will evaluate the thesis, and the Judaic Studies faculty will determine if it is worthy of honors in Judaic Studies. Students interested in honors should approach a potential adviser by the spring registration period of their junior year. When taken as preparation of the honors thesis, JUDS 1970 count towards the ten required courses in the concentration.

Further Information

Students who are interested in further information about the concentration should contact the Judaic Studies Office at 163 George Street to make an appointment with the undergraduate concentration advisor. [Tel: 863-3912 or Judaic@brown.edu]

Latin American and Caribbean Studies

The concentration in Latin American and Caribbean Studies is designed to help students develop an interdisciplinary understanding of culture, history and contemporary issues in Latin America and the Caribbean. Social, political, economic, literary, and cultural factors combine to explain the Latin American societies of today. Concentration in Latin American and Caribbean Studies provides the opportunity to use the methods of various disciplines and integrate different ways of knowing.

Requirements are intentionally broad and flexible to accommodate the interests of students in understanding the diverse reality of Latin America and the Caribbean, yet the concentration also encourages focus. Concentration requirements cover four general areas: language and literature, area studies, independent research, and out of classroom experience.

Language. Basic competence in either Spanish or Portuguese is required. Each student must take either HISP 0100, 0200; POBS 0110 or any more advanced Spanish or Portuguese language course. This requirement may be satisfied by examination, but the examination will not count as a course. No more than one advanced language course (not including literature courses) may be counted among the ten courses required for the concentration.

Literature. Some familiarity with the literature of the region is required. Each concentrator must take at least one of the following: HISP 0730, POBS 0610, or a 1000-level Spanish or Portuguese literature course dealing with Latin America.

Area Studies. 6 courses: Two types of area-focused courses are required: (1) courses specifically designated "Latin American Studies"
(LAST, not including LAST 1990-1991), and (2) courses in several departmental programs that demonstrate the ways in which various disciplines have contributed to our understanding of Latin America. Approved area studies courses for the concentration are listed in Appendix B of the Concentration Guide.

At least 2 disciplines (not including Latin American Studies) must be represented among the six area studies courses. Other 1000-level courses dealing with related subjects that are especially pertinent to the study of Latin America may be substituted with approval.

Senior Thesis or Project. 2 courses: A Senior Thesis or Project is optional for concentrators. It includes course credit for a reading and research course (LAST 1990-1991). In order to integrate the diverse perspectives gained in courses and readings, seniors may elect to complete a Senior Thesis or Project under the direction of one faculty member. Seniors will also choose one additional faculty member to serve as a reader. The reader will receive a draft and a finished copy of the student's thesis or project, which the reader will be responsible to grade. The reader may be involved in the earlier development of the thesis or project depending upon the arrangement made by the student with the reader. The Senior Thesis or Project will normally consist of a major research paper. A student may, with prior permission of the Latin American and Caribbean Studies Concentration Advisor, present a film, videotape, museum exhibition, or other appropriate project, together with a paper that clearly demonstrates the academic relevance of the project. Only the Senior Thesis qualifies the student (along with a minimum B+ average) for Honors. The Senior Project is quite often of a more personal nature, such as observations on practice teaching or a survey of social resources on Latin America. Near the beginning of the seventh semester, students should submit to the concentration advisor a 5 to 8 page prospectus accompanied by the signature of one faculty member indicating that he or she is willing to serve as primary advisor on the project.

If a concentrator chooses to do neither a senior thesis nor a senior project, then a research paper must be written in an advanced undergraduate seminar (1000-level). The seminar must be among the approved area studies courses listed in Appendix B of the Latin American Studies Concentration Guide, and will count as one of the ten courses required for the concentration. Research papers will typically be 20-30 pages in length and must be approved by the Concentration Advisor. Students who choose this option do not take LAST 1990 or 1991. The seminar counts as the research component of the program. The distribution requirements for this option are: 2 language courses, 7 area studies courses and 1 research course (i.e. the seminar for which the paper is written).

Internships/Community Service. The Concentration in Latin American and Caribbean Studies requires students to complete an internship or volunteer service work in Latin America or with a local organization that works primarily with Spanish or Portuguese speaking peoples. The Center maintains a database of local and international internship opportunities. Students are strongly encouraged to consult with the Swearer Center for Public Service. Internships and community service work are available to Brown students who study abroad at the Brown programs in Mexico (Universidad de las Americas) and in Brazil (Catholic University of Rio de Janeiro). Examples of local service work performed by concentrators in previous years include: helping compile a Spanish language guide to welfare service agencies, developing a culturally appropriate adaptation of a health testing and education program, and ESL instruction to Latin American immigrants. Such extracurricular work can be rewarding in itself; in consultation with a faculty member, it can often be used to earn academic credit and furnish material for either a Senior Thesis or Project.

A minimum of one semester or a summer of internship or volunteer service work is required. Students need to submit an internship/service work proposal form to the Latin American and Caribbean Studies Concentration Advisor for approval prior to starting the internship or service work. Upon completion of the internship or service work, students are required to submit to the Concentration Advisor a brief summary report of their experience, which must be signed by the supervisor of the student's internship or service work.

Honors. Qualified undergraduates may pursue work towards the B.A. with Honors. The requirements for graduation with Honors are the following:

1. Maintenance of at least a B+ average in the ten courses counting for the concentration.
2. Maintenance of at least a B+ average in all course work done for the B.A. at Brown.
3. Completion of a Senior Thesis approved by the primary advisor and reader as acceptable for Honors. The senior thesis should be "A" level work, although an "A" thesis does not automatically qualify for honors.

Prizes and Awards: Graduating seniors in Latin American Studies are eligible for an award administered by the concentration for outstanding Senior Thesis.

Foreign Study. Study abroad (normally in the junior year) is encouraged as an important part of the concentration. Interested students should begin early to prepare for such a venture. Popular programs with Latin American concentrators include Universidad de las Americas-Puebla, Mexico, and the Catholic University (PUC-Rio) of Rio de Janeiro, Brazil. Up to three courses taken abroad may be counted toward the ten courses required for the concentration. A list of Brown programs and approved non-Brown programs is available from the Office of International Programs (OIP) located in Rhode Island Hall. Feel free to consult the Latin American and Caribbean Studies concentration advisor about study abroad.

Linguistics

Linguistics is at the crossroads of many fields of inquiry. The concentration in linguistics is designed both for students interested in the discipline itself and also for those wishing to use their understanding of linguistic structure to pursue other disciplines. Linguists are concerned with such issues as what all human languages have in common, why languages change, how our linguistic abilities interact with our cognitive abilities, how language is learnable, and developing formal models of linguistic structure. Fields as diverse as anthropology, legal reasoning, language pathology, technical writing and editing, as well as aspects of Artificial Intelligence (AI) including speech recognition, machine translation and natural language user-interfaces all rely heavily upon methods and models developed in linguistics.

The undergraduate concentration in linguistics is designed to provide students with an introduction to the formal analysis of language with respect to its phonetic, phonological, syntactic, and semantic properties. Further course work explores the computational nature of linguistic systems, how language is learned by children and perceived by adults, how languages vary, and how they change over time. Course work in the Department of Cognitive and Linguistic Sciences may be complemented with related courses in English, Anthropology, Philosophy, Computer Science, and various languages.

Concentration Advisor: Katherine Demuth, x3-1053, Katherine_Demuth@brown.edu

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
The concentration in linguistics requires a total of ten courses in linguistics or related disciplines, including the following:

A. Prerequisite: CLPS 0030 (COGS 0410) Introduction to Linguistic Theory (may be waived in special instances).

B. Four Required courses:

1. CLPS 1310 (COGS 1210) (Introduction to Phonological Theory)
2. CLPS 1330 (COGS 1310) (Introduction to Syntax) It is recommended that students take COGS 1210 and COGS 1310 before higher level courses.
3. One course in phonetics, phonology, syntax, or semantics
   - CLPS 1340 (COGS 1110) Introduction to Semantics
   - CLPS 1341 (COGS 1120) Lexical Semantics
   - CLPS 1342 (COGS 1130) Formal Semantics
   - CLPS 1891 (COGS 1240) Research Methods in Physiologic and Acoustic Phonetics
   - (1630, no longer offered) COGS 1630 Topics in Phonology
   - (1640, no longer offered) COGS 1640 Topics in Syntax and Semantics
4. One course in psycholinguistics
   - CLPS 1800 (COGS 1410) Language Processing
   - CLPS 1810 (COGS 1420) Syntactic Theory and Syntactic Processing
   - CLPS 1650 (COGS 1430) Child Language Acquisition
   - CLPS 1890 (COGS 1450) Research in Psycholinguistics
   - (1470, no longer offered) COGS 1470 Language Learning Disorders
   - CLPS 1820 (COGS 1480) Language and the Brain
   - (1740, no longer offered) COGS 1740 Topics in Child Language

C. Five Electives:
The remaining five courses may be drawn from any of those listed above, or from the following courses in Linguistics and related disciplines, with the restriction that only 2 may be below 1000-level courses:

- Cognitive and Linguistic Sciences
  - (0070, no longer offered) COGS 0070 Language, Truth, and Advertising
  - CLPS 0810 (COGS 0320) The Biology and Evolution of Language
  - CLPS 0800 (COGS 0450) Language and the Mind
  - (0870, no longer offered) COGS 0870 Language in Africa
  - (0880, no longer offered) COGS 0880 Meaning and Thought
  - (1360, no longer offered) COGS 1360 Introduction to Computational Linguistics
  - CLPS 1350 (COGS 1720) Introduction to Mathematical Linguistics
  - (1780, no longer offered) COGS 1780 Psychological Acoustics
- Anthropology
  - ANTH 1800 Sociolinguistics, Discourse and Dialogue
- English

Courses above the 1000-level from other departments dealing with the history and structure of language may also qualify with the consent of the advisor. At least three of these courses must be at the 1000-level or above. Other courses may be substituted at the discretion of the concentration advisor.

II. Degrees with Honors:

Candidates for Honors in Linguistics will take a minimum of ten courses for the concentration which will consist of all requirements for the standard program plus two additional courses in Linguistics or related disciplines. One of these courses may be an independent study project upon which the thesis is based. Honors candidates should formalize their projects in consultation with their advisors by the end of Semester 6. Honors students will give an oral presentation of their work.

Although no specific grade-point average has been set for acceptance into the Honors Program, only students with a good record and an advisor willing to work with them will be allowed into the Honors Program.

III. Independent Study:

Independent study is encouraged for the A.B. degree. Students should sign up for CLPS 1970 (COGS 1970) with a faculty advisor who is a member of the Department of Cognitive and Linguistic Sciences. Arrangements should be made in Semester 6 for students expecting to do independent study during Semesters 7 and/or 8.

IV. Comments:

Foreign language courses will generally not count towards the concentration requirements, except those which focus on the structure or history of the language. Students are, however, advised to gain familiarity with a foreign language, and are encouraged to take at least one course which deals with the structure of a language other than English.

It is strongly recommended that students take CLPS 1310 (COGS 1210) and CLPS 1330 (COGS 1310) before Semester 7.

Literary Arts

The concentration in Literary Arts is designed to allow students to develop their skills as writers in one or more genres while deepening their understanding of the craft of writing. A degree in Literary Arts does not guarantee that a student will become a great writer. Its purpose, rather, is to allow students to learn about writing as a literary art. While some students may place primary focus on a particular genre, others may explore the relations between genres. The requirements of the concentration balance creative and critical concerns. Students complete four creative writing workshops and six reading-intensive courses in literary criticism and history. These requirements are intended to encourage students to deepen their understanding of the craft of writing and the complementarity between literary art and scholarship.

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
Candidates for the Bachelor of Arts degree with concentration in Literary Arts will be expected to complete the following course work:

1. At least four creative writing workshops from among:
   LITR 110, 210, 310, 610, 1010, 1110, and 1150; at least two genres must be covered within the four courses taken. An independent study in literary arts (LITR 1310) may count toward the workshop requirement. Other writing-intensive courses may also count, at the discretion of the advisor.

2. Six elective reading and research in literary arts courses, which must include:
   * a course in literary theory or the history of literary criticism
   * a course that primarily covers readings and research in literary arts created before 1800
   * a course that primarily covers readings and research in literary arts created between 1800 and 1900
   * a course that primarily covers readings and research in literary arts created after 1900

   These courses, selected in consultation with a concentration advisor, may come from (but are not limited to) the following departments: Africana Studies, American Civilization, Classics, Comparative Literature, East Asian Studies, Egyptology, French Studies, German Studies, Hispanic Studies, Italian Studies, Judaic Studies, Linguistics, Literatures and Cultures in English, Middle East Studies, Modern Culture and Media, Music, Portuguese and Brazilian Studies, Slavic Studies, South Asian Studies, Theatre, Speech and Dance, Visual Arts. With approval from the concentration advisor, courses covering pre-20th century time periods may be distributed in a variant manner, so long as they cover two distinct literary time periods that precede the 20th century.

3. Among the ten required courses, at least four must be at the 1000-level or above. No more than a total of four classes (workshops or reading/research courses) may be taken outside of the Literary Arts Program at Brown (whether at another institution or within another department's curriculum). No more than two of the ten required courses for the concentration may also count toward fulfilling a second department's curriculum. Students who are enrolled in or have completed at least one 1000-level workshop (or independent study) may submit honors applications to the Literary Arts Program from the first day of the fall semester to 20 September. Interested students should obtain information from the office of the Literary Arts Program.

4. During the senior year, all students must take at least one course within the Literary Arts course offerings (courses with LITR designation by the Registrar, or courses approved by the concentration advisor).

   Honors in Creative Writing: Course requirements are the same as those for the regular concentration (four workshops, six elective literature-reading courses), with the following changes and additions: honors candidates must include two 1000-level workshops or independent studies among their courses; and complete a thesis. Students who are enrolled in or have completed at least one 1000-level workshop (or independent study) may submit honors applications to the Literary Arts Program from the first day of the fall semester to 20 September. Interested students should obtain information from the office of the Literary Arts Program.

   A given course may satisfy two requirements (for example, a designated Area I course may also satisfy a focus requirement). However, a total of ten courses must be completed to satisfy requirements for the concentration. Five of the ten required courses must be at the 1000-level or above.

   As many as two courses dealing primarily with the practice of writing rather than the interpretation of literature may be counted as electives toward the concentration. This provision differs slightly for students focusing in nonfiction writing (see below).

   Students concentrating in English will learn to think about the relation between a literary text and its moment in history; develop a sense of the work as shaped by, and shaping, contemporary practices and debates; and encounter critical models as bodies of knowledge with their own histories, tensions and traditions. The principle of our activity in the English department is an alertness to our own historical moment as a prism in which new aspects of a work may come to light.

   All concentrators must have their concentration programs approved by a concentration advisor. To declare a concentration, students need the Registrar's Declaration of Standard Concentration form and the English Department's concentration advising form.

   Concentration Requirements

   The concentration in Literatures and Cultures in English consists of ten courses. The ten courses must include one course in literary theory or the history of literary criticism as well as two courses in each of the following areas:

   1. I. Medieval and Early Modern Literatures and Cultures
   2. II. Enlightenment and the Rise of National Literatures and Cultures
   3. III. Modern and Contemporary Literatures and Cultures

   Students are encouraged to choose at least one course in each area that will provide a coherent sense of the literary history and the major critical developments during a substantial portion of the period covered by the area. Courses numbered ENGL 0210, 0410, and 0610 are specifically designed for this purpose.

   Concentrators also choose a four-course focus from one of the following focus areas: (a) historical development of literature, (b) historical period, (c) anglophone, post-colonial, and multicultural studies, (d) American, British, or another national/regional literature, (e) gender and sexuality, (f) genre, (g) theory, (h) nonfiction writing, or (i) independent. For further information about these specializations, see below.

   A given course may satisfy two requirements (for example, a designated Area I course may also satisfy a focus requirement). However, a total of ten courses must be completed to satisfy requirements for the concentration. Five of the ten required courses must be at the 1000-level or above.

   As many as two courses dealing primarily with the practice of writing rather than the interpretation of literature may be counted as electives toward the concentration. This provision differs slightly for students focusing in nonfiction writing (see below).
Models for the Four-Course Focus

- **A. Historical Development of Literature**
  The study of the history of English literatures throughout the centuries, from earliest medieval writings to 21st-century world English, directed to exploring how literary canons and models of literary history form and change. Students will complete at least one course from each of the following four categories: medieval (7th-15th centuries), renaissance and early modern (16th-17th centuries), 18th-19th centuries, and 20th-21st centuries. Students are encouraged to take a history course in one of their areas of study, as an elective.

- **B. Historical Period**
  The in-depth study of a single area of scholarly research of literatures in English by taking four courses in any one of the following areas of study: (I) medieval and early modern literatures and cultures; (II) enlightenment and the rise of national literatures and cultures; or (III) modern and contemporary literatures and cultures. Within the area, students may focus on a particular genre or on a particular theme or problem.

- **C. Anglophone, Post-Colonial, and Multicultural Studies**
  The study of literature as a cultural production that reflects, mediates, and creates competing conceptions of race, ethnicity, nationalism, and colonialism.

- **D. American, British, or Another National/Regional Literature**
  The study of literature in English produced: 1) in the American colonies and the United States, 2) in Great Britain and the British Isles, or 3) in another nation or region with a tradition of literature in English.

- **E. Gender and Sexuality**
  The study of literature as a cultural production that reflects, mediates, and creates social conceptions of gender and sexuality. Students choosing this specialization may explore not only the implications of historically specific constructions of gender and sexuality, but also the effects of these social constructions on literary authorship, genre, textual reception, and language itself.

- **F. Genre**
  The study of a particular literary genre such as narrative, poetry, or drama. With the approval of the concentration advisor, students may specify other genres and modes such as nonfiction prose, autobiography, satire, etc. With advisor approval, a 1000-level course dealing with the practice of writing in the focus genre may count as one of the courses in the four-course focus.

- **G. Theory**
  The study of theoretical models of literary production, interpretation, and value. Emphasis may fall upon one or more of the many aspects of theory: aesthetics, historical materialism, feminist theory, psychoanalytic theory, semiotics, the history of literary criticism, etc. Two of the courses are expected to cover fields of literature.

- **H. Nonfiction Writing**
  The study and practice of nonfiction writing as integrated with the student’s interest in literature. For example, students interested in creative nonfiction may choose to study travel writing, memoir, science writing, literary journalism, or historical narrative. Three advanced-level nonfiction writing courses (ENGL 1140, 1160, 1180, 1190, or 1200) may count toward the focus (and thus the concentration); the fourth focus course must come from relevant literature offerings.

- **I. Independent**
  This focus allows students to specialize in an interest not covered by those described above. A proposal for an Independent focus must be approved by the English Department’s curriculum committee.

**Honors in Literatures and Cultures in English**
Requirements are the same as those for the regular concentration, with the following changes and additions:

- Honors candidates must complete at least three upper-level seminars or comparable small courses and complete ENGL 1991 and ENGL 1992. Honors candidates must also earn more A’s than B’s in courses taken as part of the English concentration (or receive the equivalent faculty evaluation on a Course Performance Report for courses taken S/NC).

**Honors in Nonfiction Writing**
Requirements are the same as those for the regular concentration, with the following additions:

- Honors candidates must successfully complete ENGL 1200 (Independent Study in Nonfiction Writing) and ENGL 1990 Senior Honors Thesis in Nonfiction Writing. Honors candidates must also earn more A’s than B’s in courses taken as part of the English concentration (or receive the equivalent faculty evaluation on a Course Performance Report for courses taken S/NC).

**Honors in Creative Writing**
This program is only open to students who matriculated in Spring 2005 or before. For students who began their studies at Brown in Fall 2005 or thereafter, this option is not available. Interested students should obtain information from the office of the Literary Arts Program.

**Marine Biology**

**Standard program for the Sc.B. degree**

Marine biology encompasses the study of living organisms in the ocean or other marine or brackish bodies of water. Marine life is a vast resource, providing food, medicine, and raw materials. At a fundamental level, marine life helps determine the very nature of our planet. Marine organisms contribute significantly to the oxygen cycle, and are involved in the regulation of the earth’s climate. The habitats studied by marine biology are diverse and may include coral reefs, kelp forests, tide pools, muddy, sandy and rocky bottoms, and the open ocean.

It is understood that the biology of marine organisms and other organisms (including humans) are linked in very fundamental ways, with interfaces in every sphere of ecology.

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
In this program, students take a broad range of courses germane to understanding marine systems, and are encouraged to obtain hands-on research experience at Brown or marine field stations elsewhere. The field experience is a key feature of this program and provide scholarly interaction with leaders in the field so that students are mentored at the cutting edge.

The Marine Biology concentration prepares students for careers in marine and coastal ecology, environmental science, conservation research and education, even medicine.

Requirements:

1. CHEM 0330; PHYS 0030, 0040; MATH 0090, 0100 (or equivalents).
2. Two additional courses in physics, chemistry, mathematics, applied mathematics, computer science, engineering, or geological sciences, as approved by advisor.
3. Seven courses in biology: i) Four from the following: BIOL 0410, 0420, 0510, 0800, 1440, 1880; ii) and three additional biology courses: highly recommended are BIOL 0200, 0470, 0480, 0490, 0500, 1180, 1310, 1410, 1420, 1460, 1470.
4. Two out of the following group of related science courses (or substitutions as approved by the concentration advisor): CSCI 0040; ENGN 0060; GEOL 0070, 0310, 1100, 1110, 1120, 1130, 1240, 1330, 1580; CHEM 0350, 0360; ENVS 0120; an approved course in statistics.
5. Directed Research: BIOL 1950/1960, conducted at Brown or an approved marine lab or field station. A summer or semester at a field station is recommended. Please note that some recommended courses are offered every other year; others have limited enrollment and require early sign-up.

Concentration advisor: Mark Bertness.

Mathematical Economics

Designed to give a background in economic theory plus the mathematical tools needed to analyze and develop additional theoretical constructions. Emphasis is on the abstract theory itself.

Course Requirements:

1. Economics:
   a. ECON 1130 (or 1110 with permission)
   b. ECON 1210
   c. ECON 1630
   d. At least three other 1000-level economics courses. Of these three courses, at least two must be chosen from the "mathematical-economics" group. This group comprises ECON 1170, 1470, 1640, 1750 (old number 178), 1810, 1850, 1860, and 1870.
2. Mathematics:
   a. At least two calculus courses through MATH 0180 or its equivalent
   b. Linear algebra (MATH 0520 or 0540)
   c. Either option A or option B as follows:
      o Option A is MATH 1610, MA 1620, plus one course from the "advanced mathematics" group (see below).
      o Option B is APMA 1650, plus two courses from the "advanced mathematics" group (see below).

The "advanced mathematics" group comprises MATH 1010, 1110, 1120, 1130, and 1140.

Mathematics

Concentrators in mathematics should complete the prerequisites by the end of their sophomore year. Those interested in graduate study in mathematics are encouraged to take MATH 1130, 1140, 1260, 1410, and 1540. It is strongly recommended that students take MATH 1010 before taking MATH 1130.

Standard program for the A.B. degree

Prerequisites

multivariable calculus and linear algebra (e.g., MATH 0180/0520; 0180/0540; 0200/0520; 0350/0540; or the equivalent).

Program

(1) MATH 1530; (2) five other 1000- or 2000-level Mathematics courses (one of which may be replaced, with the approval of the concentration advisor, by a mathematically-oriented course in science, economics, or applied mathematics).

Standard program for the Sc.B. degree

Prerequisites

same as for the A.B. degree.

Program

(1) MATH 1130/1140; (2) MATH 1530 and either 1540 or 1560; (3) four other 1000- or 2000-level Mathematics courses; (4) four courses in science, economics, or applied mathematics approved by the concentration advisor.

Honors

Honors degrees may be recommended for students who have exhibited high achievement in mathematics. Candidates must complete at least eight mathematics courses at the 1000 or 2000 level with sufficiently good grades and must write an honors thesis under the guidance of a faculty member. The honors thesis is usually written while the candidate is enrolled in MATH 1970. The candidate should consult with the concentration advisor for the precise grade requirements.

Mathematics–Computer Science

Requirements for the Sc.B. degree

Prerequisites: (5 courses)

- Math
  - Three semesters of calculus through MATH 0180, 0200, or 0350
  - MATH 0520 or 0540
- Writing
Concentration Requirements (14 or 15 courses):

- Core – Math
  - MATH 1530

- Core – Computer Science
  - (CSCI 0150 and CSCI 0160) or (CSCI 0170 and CSCI 0180) or CSCI 0190
  - Two of:
    - CSCI 0310
    - CSCI 0320
    - CSCI 0510

- Advanced Mathematics
  - Three 1000-level Mathematics courses.

- Advanced Computer Science
  - Three advanced courses in Computer Science. These courses must be at the 1000-level or higher. The three courses must include a pair of courses with a coherent theme. A list of approved pairs may be found at the approved-pairs web page.

- Additional Courses
  - Four courses different from any of the above:
    - Three 1000-level courses chosen from Mathematics, Computer Science, Applied Mathematics, or related areas. These must be approved by a concentration advisor.
    - A capstone course in Computer Science or Mathematics: a one-semester course, normally taken in the student's last undergraduate year, in which the student (or group of students) use a significant portion of their undergraduate education, broadly interpreted, in studying some current topic in depth, to produce a culminating artifact such as a paper or software project.

Mathematics–Physics

Standard program for the A.B. degree:

Prerequisites: MATH 0090, 0100, or 0190; PHYS 0050 or 0070. The required mathematics courses are MATH 0180 or 0200 or 0350 and 0520 or 0540; 1110; and at least one of the following: 1060, 1120, 1610. The required physics sequence consists of PHYS 0060 or 0160; 0470; 0500; 0560; and at least two of the following: 1410, 1420, 1510, 1530, 1560. Concentrators are required to take at least one course in mathematics and one in physics in each of their last two semesters.

Standard program for the Sc.B. degree:

Substantial completion of the A.B. requirements in mathematics and physics. Prerequisites: PHYS 0070, 0160 (or 0050, 0060), MATH 0190 (or 0090, 0100), 15 courses in mathematics and physics beyond the prerequisites including a senior thesis. Students should consult with the Physics Concentration Advisor regarding their specific course choices.

Medieval Studies

The Program in Medieval Studies offers a standard concentration in Medieval Studies with an optional concentration track in Late Antique Cultures.

The concentration in Medieval Studies is focused on the eighth through the fifteenth centuries C.E., combining interdisciplinary perspectives on this period with depth of study in one or two disciplines.

Requirements:

Ten courses approved by the Program in Medieval Studies, including two courses in medieval history and one 1000- or 2000-level course in which primary texts in a medieval language other than Middle English are used. Interested students should discuss their plans with a member of the program faculty. A concentration proposal should be prepared in consultation with the faculty advisor and submitted to the program chair for approval.

Honors in Medieval Studies are awarded to students who present a meritorious honors thesis in addition to completing the required courses of the concentration. Application for admission to honors should be made in the spring of the junior year, by which time honors candidates must have completed a minimum of six approved courses in Medieval Studies. Accepted candidates write the thesis in a two-semester course sequence (MDVL 1990) under the supervision of a director and second reader drawn from the faculty of the Program in Medieval Studies.

Interested students should contact the concentration advisor for further details or consultation (863-1994).

The Program in Medieval Studies includes the following members: Professors Bonde (History of Art and Architecture), Bossy (Comparative Literature, French Studies), Bryan (English), Harvey (Religious Studies), Khalek (Religious Studies), Martinez (Italian Studies), Molholt (History of Art and Architecture), Papaianoun (Classics), Pucci (Classics), Remensnyder (History), Russom (English), Satlow (Judaic Studies), and Vaquero (Hispanic Studies).

Late Antique Cultures

Late Antique Cultures exists as an optional track of the Medieval Cultures concentration. Late Antique Cultures focuses on the third through ninth centuries C.E., when ancient cultural forms were still in place but medieval cultures were beginning to take shape simultaneously. Organized to facilitate the study of human activity in all its variety, unrestricted by the conventional demarcations of classical and medieval studies, the concentration serves those students who are interested in the changing relations of the many kinds of cultural forms, social patterns, political and economic forms, and artistic and literary traditions in this transitional period.

Requirements:

1. Two courses, one each in Roman history (CLAS 1310 or 1320; 1320 is recommended over 1310) and in medieval history (HIST 1030 or 1040).

2. One course at the advanced level (numbered at least 1000) in one approved language; the language in most cases will be Latin, but students will present different competencies and interests; other languages, such as Greek, Hebrew, or one of the medieval vernaculars can be substituted for Latin, with the approval of the concentration advisor and in conjunction with a clearly articulated program of study.

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
3. Six other courses drawn from appropriate offerings and with the approval of the concentration advisor. These courses should support a concentration area of special interest.

**Honors** in Late Antique Cultures are awarded to students who present a meritorious honors thesis in addition to completing the required courses of the concentration. Application for admission to honors should be made in the spring of the junior year, by which time honors candidates must have completed a minimum of six approved courses in Late Antique Studies. Accepted candidates write the thesis in a two-semester course sequence (MDVL 1990) under the supervision of a director and a second reader to be determined in consultation with the advisor.

Interested students should contact the concentration advisor, Mr. Pucci, Department of Classics, MacFarlane House, 48 College St., Box 1856, 863-2958, for further details or for consultation. Cooperating Faculty include Professors Bonde (History of Art and Architecture), Bryan (English), Harvey (Religious Studies), Molholt (History of Art and Architecture), Papaianou (Classics), Pucci (Classics), Remensnyder (History), Russom (English), Stowers (Religious Studies), Vaquero (Hispanic Studies), and Winkes (Institute for Archaeology and the Ancient World).

**Middle East Studies**

The Middle East encompasses a diversity of cultures. It includes the lands where the first cities were built and the earliest writing system was developed, the same lands where the three monotheistic religious traditions – Islam, Judaism and Christianity – flourished. The region has always been a crossroads for states and empires, networks of trade and intellectual discourse. Therefore we define it beyond traditional geographic parameters, which tend to focus on the Arab world, North Africa, Iran and Turkey. The concentration approaches the study of the Middle East of the 21st century as a global phenomenon, one that has generated diasporic communities throughout the world as well as transnational Islamic and other religion-based movements. The Middle East is integral to the making of global socio-economic networks, political discourses and the histories of colonialism and empire. While the contemporary popular media focus on the Middle East of late modernity, the concentration promotes the study of the region through a long-term perspective from antiquity to the present day. As an interdisciplinary concentration, Middle East Studies integrates diverse methodological approaches drawn from a variety of disciplines.

The concentration is designed to provide a broad knowledge of the region as well as a comparative understanding of Middle Eastern cultures, societies, states and economies. Within the concentration, students can choose from the following three focus areas:

I. **Religions and Cultures:** This focus area largely – although not exclusively – prioritizes pre-modern and early modern cultures and religions in the lands of the Middle East. Grounded primarily in the humanities, courses engage in an ongoing genealogy of the major cultural formations and religious traditions through the work of ethnographers, archaeologists, historians, sociologists, theologians, historians of science, literary critics and numerous other realms of scholarship. Topics covered in relevant coursework vary widely, ranging from Arabic literature to the history of Syriac Christianity to the medieval pilgrims of the Holy Land.

II. **Modern Politics and Society:** This focus area centers on issues that have been particularly salient in the colonial and post-colonial periods of the countries and peoples from the region and practicing its major faiths. Relevant coursework examines the formation of political regimes, the development of nationalist and supra-nationalist ideologies such as Arab nationalism or Islamism, ethnic and sectarian movements and identity formation, as well as regional conflict and accommodation in the modern and contemporary periods.

III. **Economies and Resources:** Water, oil, cultural patrimony: From the Petra artifacts adorning RI Hall to the diesel that powers emergency generators which keep experiments running during winter storms, this university is intimately linked to the resources and economic logics that help to make the lands of the Middle East an object of academic study. Coursework in this focus area centers on two possible trajectories, including the economics of heritage practices (i.e., tourism to archaeological sites) or economic development and underdevelopment in the region (i.e., the political economy of oil, labor, water and other resource flows).

All concentrators are required to fulfill seven courses in addition to the language competency requirements for a total of eleven courses:

1. One course in a major religious tradition (i.e., Christianity, Islam, Judaism);
2. One course on the history of the Middle East. (Note: Students whose coursework deals primarily with the ancient or pre-modern periods, are strongly encouraged to take a modern history course while students whose coursework deals primarily with the modern period are strongly encouraged take an ancient or pre-modern history course);
3. Three focus area courses (the list of eligible courses for each focus area is available at the Middle East Studies website: http://www.watsoninstitute.org/middleeast/); and
4. Two electives, including any two courses from any focus area in the concentration or independent studies approved by the MES director. (Note: Language courses beyond the requirements are eligible).
5. Language competency: Intermediate competency in a Middle Eastern language (i.e., Arabic, Aramaic, Egyptian, Farsi, Hebrew, Hindi-Urdu, Turkish), or four semesters of language coursework in the same language, is required. The requirement may be met by successfully passing courses in the given language at the intermediate level at Brown or another institution. Students wishing to fulfill this requirement on the basis of study outside of Brown are required to pass a competency test administered by an authorized Brown faculty member as listed on the MES website. Students who complete the language requirement in fewer than four courses – whether at Brown or elsewhere – are required to take courses equivalent to the number of language courses they do not need to fulfill. These may include more advanced language courses, courses in a second language, or courses from any of the three focus areas.

**Capstone Project**

All concentrators are required to complete a capstone project. Students undertake the project in conjunction with one or more faculty members with interests in the Middle East. The project may take the form of an undergraduate honors thesis, an independent study project, or with permission, an enhanced final project for a regularly scheduled course.

**Concentration Colloquium**

All concentrators are required to attend the annual concentration colloquium at which students who have completed a capstone project make a presentation related to that project. The colloquium is held during spring semester.

**Honors**

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
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Students may graduate with Honors in Middle East Studies by completing an undergraduate Honors thesis under the supervision of a primary reader drawn from the Middle East Studies faculty and one additional reader from the Brown or Brown-affiliated faculty. Honors students must increase the number of courses in the concentration to twelve, of which two course credits (i.e., one thesis credit course and one elective course) may be devoted to the preparation of the thesis.

Study Away from Brown:

Up to two courses taken at educational institutions other than Brown may be credited toward the concentration upon approval of the concentration advisor. All students must provide a syllabus and samples of written work before the MES Director can review coursework taken at other institutions for approval. For languages courses taken abroad, students may provide evaluation forms or transcripts instead of written work for review by an appropriate language instructor at Brown.

Double Concentrators:

Up to two courses may be cross-listed with another concentration in order to qualify for a double concentration in Middle East Studies.

Concentration Advisor:

Professor Melani Cammett (MES/Political Science). All concentration proposals are subject to review by the Middle East Studies Concentration Advisor. Students are expected to submit their concentration proposals no later than two weeks before the end of the preregistration period in their sophomore year.

Modern Culture and Media

The Modern Culture and Media concentration combines the study of contemporary theories of representation and cultural production with the analysis of diverse texts – visual and verbal, literary and historical, archival and imaginative – in the period broadly designated as “modern” (18th to 21st centuries). Since the appearance of modern means of textual production and reproduction (print, film, video, sound recording, digital practices, etc.), traditional artistic and literary forms have changed significantly and new forms have been developed. MCM pursues teaching and research premised on the centrality of these changes to the analysis of modern culture. We may study the modern media or on the canonical texts of the humanities, but we examine all texts as elements in cultural systems that influence and organize textual production and reception at any moment in history. Our work always aims at better understanding ourselves as participants in and products of an international, mass-mediated culture.

Track I **

Track I concentrators may choose to study a particular historical moment, a medium, or a mode of textual production, in combination with theoretical studies that examine the categories of cultural analysis: for example, the distinction between high and low culture. Possible focus areas include but are not limited to film, post-coloniality, the novel, and theories of ideology. Productive work in some modern medium or textual mode is encouraged for all concentrators. MCM’s approach to production recognizes the inextricable link between theory and practice, and the possibility of a fruitful complicity between them. Production, in the sense defined here, is a theoretically informed sphere or practice, one within which acknowledged forms of cultural creation are tested and extended in close complementarity with the analyses conducted elsewhere in MCM.

Track I Concentration Requirements:

1. MCM0150
2. Two of the following: MCM0100, MCM0230, MCM0240, MCM0250, MCM0260, MCM1110. Only one additional course from this list may count for concentration credit.
3. Five additional courses, of which:
   a. two may be at any level in MCM above MCM0260
   b. one must be an upper level course numbered MCM1200
   c. two must be senior seminars (MCM1500 or MCM1700)
4. Three additional courses.

Other Requirements:

1. Focus Area: The student’s plan of study must include at least 3 courses in a focus area approved by a concentration advisor. These courses may be MCM courses, related courses, or a combination or the two, and they must represent a concentration on some aspect of modern literature, theory, media, art or culture. Examples of possible focus areas are: mass/popular culture, gender/sexuality, language/representation/subjectivity, narrative, the novel, film, modern thought, the modern arts, modern Europe, colonialism and post-colonialism. This is not an exhaustive list. Production courses may be in the focus area but must be in addition to the minimum 3 courses.
2. Production: Work in production related to the student’s focus area (as defined above) is not required but encouraged for all Track I concentrators. Of the 11 courses required for concentration, as many as 3 may be in production. These may be in the production courses offered by MCM (film, video, digital media) or in creative writing, painting, photography, journalism, etc., provided they do not bring the total number of concentration courses taken outside MCM to more than 3.

Honors: Students who qualify for Honors in Track I are eligible to apply to do an Honors project or thesis. Applications will be screened by the MCM Honors Committee. (Application forms should be obtained by prospective honors students in their 7th semester. They are available in the MCM office.) If approved, a student must then register for MCM1990, a one-credit thesis course in which they complete the Honors project.

Track II **

Track II concentration combines production courses with the critical study of the cultural role of practice. It aims to engage students in the analysis of theories of production elaborated within philosophical, artistic, and technological traditions, while encouraging them to produce works that interrogate these traditions.

An MCM Track II concentration consists of 11 courses distributed as follows: two core courses, two additional courses below the 1000-level, three 1000-level courses, four production courses, and one senior seminar. Students are expected to meet regularly with their concentration advisors; they are required to meet at the beginning of their seventh semester to review their concentrations.

Track II Concentration Requirements:

1. Two courses (chosen with the advisor to reflect the student’s production interest)
   a. MCM0100 or MCM0150

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
b. Introductory Practice Course (For example: MCM0710, MCM0730, MCM0750, VISA0100, VISA0110, VISA0120, MUSC0200, CSCI0150, LITR0110, LITR0210) or History of a Medium or Practice (for example: HIAA0010, TSDA0030, MUSC0010, or MUSC0040)

2. One additional course from the following: MCM010, MCM0150, MCM0230, MCM0240, MCM0250, MCM0260.

3. Three 1000-level theory courses in Modern Culture and Media approved by advisors. (May include: MCM1110, MCM1200, MCM1500.)

4. Four practice courses selected in consultation with an advisor. Courses can be in any medium or combinatory sequence of media: Modern Culture and Media, Visual Art, Music, Literary Arts, Theatre, Speech and Dance, Computer Science, supplemented by approved courses at Rhode Island School of Design and study abroad.

5. One senior seminar: MCM1700 Seminars in Production or other equivalent in Production.

Honors: Honors in Track II entails one additional course, generally an independent study (MCM1980 Honors Thesis Project). Enrollment in this course is approved upon acceptance of an Honors Proposal. Application forms must be submitted by prospective Honors students in the beginning of their seventh semester and are available in the MCM office. The course is taken in the student’s final semester. An Honors degree reflects not only the completion of the thesis course and project, but generally distinguished performance in the concentration.

** As of the date of publication, the tracks will not appear on students’ academic record.

Modern Culture and Media-German

This joint concentration offers interested students an opportunity to explore the phenomenon of “Germany” using the approaches of cultural theory. Students will take a number of required courses through which they learn the basic theories and approaches to issues of language and meaning, subjectivity and identity, ideology and consciousness, gender and sexuality, and theories of narrativity. Other courses offer the student an overview of the German textual traditions in literature, philosophy, music, film, and the fine arts. German language proficiency is expected of all participants in the program and may be gained by a variety of approaches available within the German Studies Department. Overseas study at Berlin’s Humboldt University or in special cases at an equivalent institution is considered a normal part of this joint concentration. All students will be required to complete a final project.

Concentration Requirements:

Twelve courses are required for the concentration.

Prerequisites:

1. Two courses from among:
   - MCM0100: Screens and Projections: Modern Media Cultures
   - MCM0150: Text/Media/Culture: Readings in Theory
   - MCM0230: Digital Media
   - MCM0240: Television Studies
   - MCM0250: Visuality and Visual Theories
   - MCM0260: Cinematic Coding and Narrativity
   - MCM1110: The Theory of the Sign

2. GRMN 0900, Introduction to German Studies

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** Concentration Requirements:**

1. Two courses in German Studies at the 1000-level with topics relevant to the concentration focus area
2. A senior thesis (GRMN1990 or MCM1990)
3. Six courses from the following:
   - Strongly recommended for all concentrators:
     - HIST1370 (Germany, 1914 to the Present), or
     - COLT1210 (Introduction to the Theory of Literature).
   - Also recommended:
     - HIAA0850 (Modern Architecture),
     - GRMN1440 (Studies in Literary Genre),
     - GRMN1450 (Seminars in German Literature),
     - MCM1200: (Special Topics in Modern Culture and Media),
     - MCM1500: (Senior Seminars in Modern Culture and Media),
     - PHIL1660 (Metaphysics)

Students are encouraged to examine the Course Announcement carefully in consultation with their advisors to select courses that augment their concentration and, in particular, inform their final projects. In addition, students will normally complete two to four of those electives while studying in Berlin or at another location approved by the concentration advisor.

4. Students who are unable to study in Germany will be required to demonstrate reading knowledge of German.

Students are encouraged to consult with the concentration advisors for German Studies and Modern Culture and Media as early as possible in order to begin planning their course work sequences and their final project.

Modern Culture and Media-Italian

The Italian Studies Department and the Department of Modern Culture and Media have established a concentration in Modern Culture Media/Italian. The Concentration includes 11 courses; requirements are as follows:

The following 6 Courses are to be taken in the Italian Studies Department:

- ITAL 1120 (Introduction to Italian Literature)
- ITAL 1130 (Introduction to Modern Italian History)
- ITAL 1140 (Introduction to the Theory of Modern Culture)
- ITAL 1150 (Introduction to the Theory of Modern Media)
- ITAL 1160 (Introduction to the Theory of Modern Art)
- ITAL 1170 (Introduction to the Theory of Modern Architecture)

Any 3 courses of the following:

- ITAL 1340 (Garibaldi and the Risorgimento)
- ITAL 1350 (Contemporary Italian Literature)
- ITAL 1390 (Modern Italian History)
- ITAL 1400 (Special Topics in Italian Studies)

The following 5 courses are to be taken in the Modern Culture and Media Department:

Any 3 courses of the following:

- MCM010: Screens and Projections: Modern Media Cultures
- MCM0150: Text/Media/Culture: Readings in Theory
- MCM0230: Digital Media
- MCM0240: Television Studies
- MCM0250: Visuality and Visual Theories
- MCM0260: Cinematic Coding and Narrativity
- MCM1110: The Theory of the Sign

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
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- MCM 0100 (Screens and Projections: Modern Media Cultures)
- MCM 0150 (Text/Media/Culture: Readings in Theory)
- MCM 0230 (Digital Media)
- MCM 0240 (Television Studies)
- MCM 0250 (Visuality and Visual Theories)
- MCM 0260 (Cinematic Coding and Narrativity)
- MCM 1110 (The Theory of the Sign)

At least 1 Course Numbered MCM 1200

At least 1 Course Numbered MCM 1500

Students are encouraged to consider study at the University of Bologna through the Brown Program in Bologna, though this is by no means a requirement for fulfillment of the Concentration. Courses taken at the University of Bologna may substitute for Italian Studies and MCM courses (no more than 2 from either department) at the discretion of the Concentration advisors.

Advising: The Concentration will be jointly administered by Italian Studies and MCM, and each Concentrator must have a declaration signed by an advisor in each department. Thereafter, advising will be undertaken jointly.

Honors: Honors will require a thesis and will normally be undertaken by signaling intent during the junior year. No thesis will be required for completion of the concentration, though students will be strongly advised to undertake some capstone project during their senior year.

Music

The A.B. offered by the Music Department is a general degree, integrating theory, history, ethnomusicology, technology, composition and performance in a single, liberal concentration.

The department currently offers a standard concentration in Music that emphasizes theory, history and composition; and two optional concentration tracks: one that focuses on computer music and multimedia.

MUSC 0550 and 0560 are required for all three tracks. These courses should be taken in the first year if possible; they must be completed by the end of the sophomore year. (N.B. The sequence starts in the fall.) The basic keyboard skills expected of concentrators are tested at the end of MUSC 0560.

The Department of Music does not award course credit for Advanced Placement (A.P.) courses. Students may receive placement credit for MUCS 0550 and/or MUSC 0560, however. Students interested in placing out of MUSC 0550-0560 must take the theory placement test administered during the first class meeting of MUSC 0550 at the beginning of the fall semester. Each student who passes the test will consult with the director of the course to work out individual arrangements for placement credit.

Participation in one or more of the departmentally sponsored performing organizations is highly recommended: Chorus, Orchestra, Jazz Band, Wind Symphony, Chamber Music Performance, Electroacoustic Ensemble, Sacred Harp/Shape-Note Singing, Old-time String Band, Javanese Gamelan, or Ghanaian drumming.

All music courses -- including performance courses -- are open to all Brown students, provided that they have satisfied the prerequisites.

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
Undergraduate Concentration Programs

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.

• MUSC 0550: Theory of Tonal Music I
• MUSC 0560: Theory of Tonal Music II

Other Foundational Courses (2)
The two courses below are required. 1900 is usually offered annually and should be taken before the senior year.

• ANTH 0100: Cultural Anthropology - Understanding Human Societies
• MUSC 1900: Introduction to Ethnomusicology

History (2)
Any two of the three courses below are required; the third is optional.

• MUSC 0910: Medieval and Renaissance Music
• MUSC 0920: Baroque and Classical Music
• MUSC 0930: Romantic and Modern Music

Electives in Ethnomusicology (4)
Four additional courses in ethnomusicology numbered 1000 or higher are required. For a list of qualifying courses, see the Concentration Advisor.

Computer Music and Multimedia Track:

Music Theory (2)
MUSC 0550-0560 are prerequisites for any upper-level music courses, 0550 is offered every fall; 0560 is offered every spring.

• MUSC 0550: Theory of Tonal Music I
• MUSC 0560: Theory of Tonal Music II

Computer Music Foundation (3)

• MUSC 0200: Computers and Music
• MUSC 1200: Seminar in Electronic Music -- Recording Studio as Compositional Tool
• MUSC 1210: Seminar in Electronic Music -- Real-Time Systems

Musicology/Ethnomusicology Elective (1)
One scholarly course numbered above MUSC 0900.

Other Electives (4)
Students must take four elective courses selected in any combination from the following groups:

• Computer Music and Multimedia courses, MUSC 1220–1290 or MUSC 2200–2290
• Theory and composition courses, MUSC 1020–1190
• No more than one lower-level Computer Music and Multimedia course, MUSC 0210–0230
• No more than one electronic art production course (VISA or MCM) from approved list (see the Concentration Advisor for current approved courses in this area)

Undergraduate Concentration Advisor:

Prof. Dana Gooley
Dana_Gooley@brown.edu
225 Orwig Music Building
(401) 863-3711

Neuroscience

Standard program for the Sc.B. degree

The concentration combines a general science background with a number of specific courses devoted to the cellular, molecular, and integrative functions of the nervous system. The concentration allows considerable flexibility for students to tailor a program to their individual interests. Elective courses focus on a variety of areas including molecular mechanisms, cellular function, sensory and motor systems, neuropharmacology, learning and memory, animal behavior, cognitive function, bioengineering, theoretical neuroscience and computer modeling.

The concentration in neuroscience leads to an Sc.B. degree. The following background courses, or their equivalent, are required for the degree: MATH 0090, 0100; PHYS 0030, 0040; BIOL 0200; CHEM 0330, 0350. The core concentration courses are NEUR 0010, 1020, 1030, one neuroscience lab course, one critical reading course, one statistics course, and four electives related to neuroscience. Independent study and honors research projects are encouraged.

Philosophy

There is one standard concentration program in Philosophy, with two optional concentration tracks.

Standard Concentration: Eight courses in philosophy, which may not include more than one course numbered below 0350. They must include at least one course in each of the following five areas: ancient philosophy (0350, 1250, 1260 or 1310), early modern philosophy (0360, 1700, 1710, or 1720), logic (0540 or higher), ethics or political philosophy (0500 or higher), and epistemology or metaphysics (1660, 1750, or 1770). In addition, at least one of the courses must be an undergraduate or graduate seminar.

Optional tracks:

Ethics and Political Philosophy: Eight courses in philosophy, which may not include more than one course numbered below 0350. They must include a course in ancient philosophy (0350, 1250, 1260 or 1310), a course in early modern philosophy (0360, 1700, 1710, or 1720), and a course in logic (0540 or higher). They must also include at least three courses in ethics or political philosophy at the level of 0400 or higher.

Logic and Philosophy of Science: Eight courses in philosophy, which may not include more than one course numbered below 0350. They must include a course in ancient philosophy (0350, 1250, 1260 or 1310), a course in early modern philosophy (0360, 1700, 1710, or 1720), a course in logic at the level of 1630 or higher, and a course in epistemology or metaphysics (1660, 1750, or 1770). They must also include at least three courses in philosophy of science at the level of 0650 or higher. With the approval of the concentration advisor, two appropriate science or mathematics courses may be taken instead of philosophy courses.
Cross-listed courses may be used to fulfill the requirements of any of the concentrations above only with the approval of the concentration advisor.

Honors

Seniors wishing to earn honors by presenting a senior honors thesis should consult their concentration advisor during their sixth semester concerning procedures and requirements. In addition to completing the usual non-honors requirements, a student must write a thesis judged to be of honors quality by two readers and have a strong record in philosophy department courses (of which at least five must be taken for a letter grade). Honors theses are usually written during a student's final semester at Brown.

Physics and Philosophy

The Physics and Philosophy A.B. Concentration is for undergraduates who have a deep interest in understanding physics but do not need to acquire the laboratory and computational skills of a professional physicist. It acquaints students with the most philosophically interesting physics and balances the student's need to grapple with some computational problems with their need to deepen their investigation of conceptual and epistemological issues. By the end of the program, students are expected to possess an excellent conceptual understanding of the most philosophically interesting physics, relativity and quantum mechanics. They should be able to discuss the central interpretational issues in physics.

This concentration should prepare a student either for graduate study, especially in a history and philosophy of science (HPS) program, or for employment in science education or journalism. Other professions such as law and medicine will look favorably on such concentrators for having versatile interests and being able to master difficult material. The concentration may serve as an excellent preparation for a law school since physics and philosophy both exercise a rigorous approach to problems of immediate relevance to life but at the same time assume two complimentary and sometimes competing viewpoints.

Advising

Concentration advisors from the Departments of Physics and Philosophy will guide students working towards the A.B. degree.

Curriculum

The curriculum builds around the fields of physics that have had the biggest impact on philosophy, especially Quantum Physics, and the fields of philosophy most relevant for physics, such as Epistemology, Metaphysics and Philosophy of Physics. It is strongly recommended that students complete at least one relevant history course.

There are 11 required courses (5 in Physics, 5 in Philosophy or History, one course in mathematics) and a final project. The choice of the courses is dictated by the following considerations. The field of physics with both deepest philosophical implications and deepest influence on the rest of physics is Quantum Mechanics. Thus, a 1000-level course in Quantum Mechanics or a closely related field such as Statistical Mechanics is indispensable. The second field of physics most relevant for the concentration is Relativity. This field touches upon and serves as a foundation for a broad list of subjects with major philosophical implications of their own (e.g., PHYS 1170 - Elementary Particle and Nuclear Physics, PHYS 1280 - Cosmology, PHYS 1510 - Classical Field Theory, PHYS 1100 - General Relativity, etc.). This requires another 1000-level physics course in the concentration. 1000-level Physics courses cannot be taken without certain preliminary work, most importantly, PHYS 0470, which serves as a prerequisite for most higher-level physics courses and which relies in turn on PHYS 0160 or PHYS 0060. Another lower-level physics course is necessary for a student to develop familiarity with the tools which have been employed in producing the physics knowledge.

A natural introduction into philosophy of physics comes from a course in Early Modern Philosophy. To a large extent, Early Modern Philosophy was shaped by scholars who combined interest in philosophy and physics (e.g., Rene Descartes, Blaise Pascal, Gottfried Wilhelm Leibniz). The influence of the XVII century physics revolution on other central figures such as Kant is unquestionable. Early Modern Philosophy sets an intellectual stage for many subsequent developments in the Philosophy of Physics and directly addresses some of the most perplexing issues like the connection (or lack thereof) between physics and religion. The core of the Philosophy requirement involves two courses in Epistemology, Metaphysics and Philosophy of Science. One course in this field would not be sufficient due to its very broad nature. Students are strongly advised to take a relevant History course. This requirement can be substituted by an additional philosophy course to reflect interests of those students who want a deeper background in Epistemology, Metaphysics and Philosophy of Science or have other related interests such as Ancient Natural Philosophy.

In addition to the above philosophy courses, PHIL 0210 (Science, Perception, and Reality) serves as a gateway into the concentration. It may be substituted by other relevant courses such as PHYS 0100 (Flat Earth to Quantum Uncertainty: On the Nature and Meaning of Scientific Explanation).

A course in calculus is a prerequisite for most physics and some philosophy classes.

Required courses for the A.B. degree are listed below:

Physics Courses:

- An introductory course in Modern Physics:
- PHYS 0060 - Foundation of Electromagnetism and Modern Physics or
- PHYS 0160 - Introduction to Quantum Mechanics and Relativity.

- A course in Special Relativity and Classical Field Theory:
- PHYS 0470 - Electricity & Magnetism.

- A course in Methods of Experimental and Theoretical physics:
- PHYS 0500 - Advanced Classical Mechanics or
- PHYS 0560 - Experiments in Modern Physics.

- A course in Quantum Mechanics and its applications:
- PHYS 1410 - Quantum Mechanics; or
- PHYS 1530 - Thermodynamics & Statistical Mechanics.

- One more 1000-level Physics course;

Philosophy Courses:

- A gateway course:
- PHIL 0210 - Science, Perception, and Reality or

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
Undergraduate Concentration Programs

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.

**Physics**

**Standard concentration for the A.B. degree**

PHYS 0070, 0160 (or 0030, 0040 or 0050, 0060), 0470, 0500, 0560, 1410, 1530 and one additional 1000-level course or a mathematics course beyond the introductory level.

**Standard program for the Sc.B. degree**

*Prerequisites:* PHYS 0070, 0160 (or 0050, 0060); MATH 0190, or 0090, 0100.

*Program:* PHYS 0470, 0500, 0560, 1410, 1420, 1510, 1530, 1560, 1980. One additional science course, chosen from PHYS 1170, 1280, 1720, 2410, or upper level courses in related fields of science chosen by the student with agreement of his or her advisor. Mathematics: 4 courses beyond 0190 or 0090, 0100 including choices from Applied Mathematics. In addition, courses in computer programming are recommended.

A senior thesis is required. This is to be prepared in connection with PHYS 1990 under the direction of a faculty supervisor. The topic may be in a related department or of interdisciplinary nature. In any event, a dissertation must be submitted.

**Honors**

Candidates for honors in physics will be expected to pursue a more rigorous and extensive program than those merely concentrating in the subject. In addition they will be required to begin an honors thesis during the seventh semester and to complete it (as part of PHYS 1990) during the eighth semester. Honors candidates are also expected to take a special oral examination on the thesis at the end of the eighth semester. Further details about the program may be obtained from the chair of the department or the departmental honors advisor.

**Political Science**

Political science concentration offers opportunities for learning in a number of different areas. Students completing the program of study will be prepared for jobs in government, private corporations, and nonprofit organizations as well as for more advanced study in law, business, or graduate school.

The undergraduate concentration is organized around three broad tracks, or programs of study: American politics, international and comparative politics, and political theory.

**Requirements**

Students interested in graduating with a degree in political science need to complete the following requirements:

1. Twelve courses overall: Ten within the Department of Political Science and two from areas outside the department related to your chosen track. Thirteen courses are required if the methods requirement is fulfilled with a course outside the department.

2. For the American politics and political theory tracks; two introductory courses from the following group: POLS 0010, 0100, 0110, 0200 or 0400. One of which must be the introductory course associated with chosen track.
Portuguese and Brazilian Studies

The concentration in Portuguese and Brazilian Studies is the study of the Portuguese-speaking world, a large and diverse geographical and cultural area spread over five continents, including Brazil, Continental and Insular Portugal, Lusophone Africa and Luso-America, and inhabited by two hundred million people. Although students are encouraged to explore the global nature of the Portuguese-speaking world, their individual program will generally focus on one of the specific geographical areas mentioned above.

Using the Portuguese language as a basis, the concentration in Portuguese and Brazilian Studies allows students to develop their interests in the areas of language, literature, education, history or the social sciences in general. The concentration consists of eight interrelated courses to be selected by the student, in consultation with the Concentration Advisor, from the offerings in Portuguese and Brazilian Studies as well as in other departments, such as History, Political Science, Africana Studies, Anthropology and Sociology. At least four courses must be conducted in Portuguese.

To obtain an advisor, contact the concentration coordinator, Patti Gardner.

Honors

Students wishing to undertake the honors program need to complete the same requirements as shown for the concentration. Completion of the methods requirement is required prior to applying to the Honors program. Students must also complete an honors research project and take POLS 1910 and 1920 during the senior year.

Program A (Language and literature focus): (1) POBS 0610 (Mapping Portuguese-Speaking Cultures: Brazil) and 0620 (Mapping Portuguese-Speaking Cultures: Portugal and Africa); (2) At least two literature courses at the POBS 1500 level or higher; (3) An advanced writing course (POBS 1030 or 1320); (4) POBS 1800 (Concentration Seminar); (5) Two electives, at least one of which should be a course outside the field of language and literature.

Program B (Interdisciplinary focus): (1) POBS 0610 (Mapping Portuguese-Speaking Cultures: Brazil) and 0620 (Mapping Portuguese-Speaking Cultures: Portugal and Africa); (2) POBS 1800 (Concentration Seminar); (3) Five courses to be selected from the offerings in Portuguese and Brazilian Studies and/or related departments, such as Africana Studies, Anthropology, History, Political Science, and Sociology.

Foreign Study: Study either in Brazil or in Portugal (usually in the junior year or during the summer) is encouraged as an important part of the concentration. Up to four credits from participation in foreign-study programs can be applied towards the concentration. Students should begin to prepare early for participation in such programs.

Psychology

The Department of Psychology offers A.B. and Sc.B. degrees. Either degree prepares a student for graduate study in psychology and related fields. The Sc.B. degree, however, provides additional background in sciences that are closely related to psychology and ensures that the student acquires research experience.

Standard program for the A.B. degree

1. CLPS 0010 (PSYC 0010) (or, advanced placement with score of 4 or 5, or IB score of 5 or above). An elective with prior approval from the Psychology Concentration Committee must be taken if placement for CLPS 0010 (PSYC 0010) is granted.

2. CLPS 0900 (PSYC 0090 or COGS 0090), or another statistics course with prior approval of the Psychology Concentration Committee.

3. Six courses (at least one in each area should be at 1000-level)
   a. Two courses in Perception and Cognition
   b. Two courses in Behavioral Neuroscience
   c. Two courses in Social, Personality and Developmental Psychology

4. An advanced laboratory course

5. An advanced seminar

6. One biology course (or AP biology credit with a score of 4 or 5) and one other science course, with the prior approval of the Psychology Concentration Committee.

Standard program for the Sc. B. degree

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
1. Ten courses as described for the A.B. degree (in 1-5 above)

2. Six supporting science courses selected from at least three of the following areas, with the prior approval of the Sc.B. Concentration Advisor: applied mathematics, biomedical sciences, chemistry, computer sciences, engineering, linguistics, mathematics, neuroscience, or physics. At least one course must be from either biomedical sciences or neural sciences. (Some courses offered by science departments, such as those intended for non-science concentrators, may not meet this requirement). AP credit can substitute for only one of these courses.


Honors

The honors program in psychology offers A.B. and Sc.B. candidates an opportunity to perform research in collaboration with a member of the psychology faculty. This research typically involves an advanced course in research methods in psychology (or an elective with the prior approval of the Concentration advisor), a semester of independent reading (e.g., CLPS 1970 (PSYC 1970)), and a semester of research (e.g., CLPS 1970 (PSYC 1990)), and it culminates in a senior honors thesis. For information concerning eligibility and requirements, see a departmental honors advisor.


Public Policy and American Institutions

Public Policy and American Institutions focuses on the formation, implementation and evaluation of solutions to social, economic, and political problems in the United States. Among the policy areas covered are education, health care, urban welfare, law, technology, race, and gender. Students may choose to specialize in a specific substantive area of public policy on policymaking and policy analysis more generally.

Requirements for the standard concentration:

1. Core courses required of all concentrators (five courses): POLS 0100; ECON 1110 or 1130 (or EDUC 1130); POLS 1600, ECON 1620 or 1630, EDUC 1110, or SOC 1100; POLS 1950 or PPAI 1700T; POLS 1950 or PPAI 1700N.

2. Additional requirements (five courses): (1) at least three courses in political institutions, one of which must be in comparative institutions; (2) two courses in public policy problems, preferably in the student's area of specialization.

3. One of the five required courses listed above in 2) must be from the list of Public Policy 1700/1701 Junior/Senior Seminars.

4. Honors: Candidates for honors should apply in the Spring term of their third year. Successful candidates will enroll in the Public Policy Colloquium and prepare a senior honors paper.

The concentration offers two optional concentration tracks:

Law and Public Policy offers students a contemporary, interdisciplinary view of the legal system. This track is open to all interested students and is not intended as preparation for law school. The track requires the five core courses of the concentration, a comparative institutions course, and one course in policy problems. Additionally, this track requires two courses in legal institutions, one multi-disciplinary perspectives course related to law, and either PPAI 1700T or PPAI 1700N.

Economics and Public Policy focuses on the economic analysis of governmental programs. It requires the five core courses of the concentration and at least three courses in political institutions, one of which must be in comparative institutions. In addition, the track requires ECON 1480 and two courses in economic policy problems.

Religious Studies

Concentration in religious studies includes course work in RELS 1000 (junior seminar in methods in the study of religion) and eight other courses conforming to the following requirements.

Each student in consultation with appropriate faculty members devises a concentration program, which may include up to three courses given outside the department. The student presents (for approval by the concentration advisor) a written statement of the objectives of his or her concentration program and a list of the component courses. The program is expected to encompass the study of at least one religious tradition from each of the following groups. Ordinarily, this requirement is satisfied by two or more courses in each of these areas:

1. Traditions that emerge from West Asia and the Mediterranean world
2. Traditions that emerge from South and East Asia

The plan of study will take account of more than one approach to the study of religions, e.g., philosophical and historical; contain at least two Intermediate-level courses (0200-0999), RELS 1000, and two additional advanced-level courses (above 1000). This means that no more than four courses (out of nine) can be at the introductory-level.

No later than the end of spring registration in the junior year, concentrators will determine if they wish to write an honors thesis or choose a capstone course for the concentration. A capstone course will be selected in consultation with the concentration advisor and other faculty as appropriate. Within the frame of this capstone course, the concentrator will address in an appropriate way the theoretical and interpretive issues of his or her particular focus in the Religious Studies concentration.

Honors:

A Religious Studies concentration with Honors requires, in addition to RELS 1000 and eight other courses, an Honors thesis (RELS 1999, during both semesters of the senior year). To receive Honors, a student must have at least a high B in the concentration and an A on the thesis. Students who study abroad, or who petition to include Brown courses not cross-listed with Religious Studies, must still complete at least five courses in Religious Studies.

Renaissance and Early Modern Studies

The Program in Renaissance and Early Modern Studies (REMS) encourages students to pursue interdisciplinary and multidisciplinary approaches to the study of Europe and its relation with the Americas and Asia in the early modern period. The late fourteenth through the late eighteenth centuries saw the development of new cultural and political forms through the imitation and reworking of those of classical antiquity, while later witnessing the restructuring of patriarchal society...
The Science and Society Concentration is an interdisciplinary program that examines the processes of scientific discovery and the establishment of scientific policies and systems of belief from historical, philosophical, anthropological and sociological perspectives.

Requirements

Consisting of 12 courses, the program of study outlined below will be developed by each student in consultation with the concentration advisor. Where appropriate, independent reading, lab courses or GISPS may count for up to three of the twelve total courses. Students will take a minimum of 7 intermediate to advanced courses.

Required Courses (2)

The concentration has two required courses.

- SCSO 1400: Science and Society: Theories and Controversies, or equivalent introductory course: usually taken in the second or third year.
- SCSO 1900: Senior Seminar, also open to non-majors with the proper background, usually taken senior year.

Thematic Track (3) **

Students will organize their course of study around the choice of a thematic track. The theme may be thought of as the applied content portion of the concentration. Students will take a minimum of three courses, at least one of which must be at an advanced level, in one of the thematic areas listed below:

- History & Philosophy of Science
- Gender & Science
- Race, Science & Ethnicity
- Health & Medicine
- Representing Science in Literature & Culture
- Policy, Persuasion & the Rhetoric of Science
- Environment & Society
- Independent Focus

Science Track (4) **

Students will take a minimum of four courses in one of the following scientific areas: physical sciences, life sciences, mathematics/computer science. The chosen area should provide appropriate background and support for the chosen concentration theme. The science courses will be sequenced such that a concentrator will move enough beyond the introductory level to gain some understanding of the world view of scientists within a chosen field. The particular sequence of courses which best meets the science requirement will be chosen in consultation with the concentration advisor. When necessary, the concentration advisor will seek guidance from faculty within the chosen scientific field.

Science and Technology Studies Theory (3) **

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
Students will take three Science and Technology Studies-related courses in the social sciences and humanities. These courses, which will provide critical theoretical background for the study of Science and Society, should address questions of historiography, epistemology and methodology in the field of science and technology studies. A full list of such courses and sample concentrations may be found at http://www.brown.edu/Faculty/COSTS.

Honors

To qualify for Honors a student must:

1. Apply for candidacy for Honors by the end of the student’s seventh semester.

2. Maintain a high level of excellence in courses within the concentration and above average performance in non-concentration courses. In the event that a student has taken a number of courses S/NC he or she will submit CPR’s for consideration by the concentration advisory committee, which will evaluate the student’s candidacy.

3. Complete an Honors Thesis judged by the advisor and an additional reader to be of superior quality.

4. Deliver an oral presentation based on thesis work that is favorably reviewed by the concentration faculty and the advisory committee.

** As of the date of publication, the tracks will not appear on students' academic record.

Slavic Studies

The Department of Slavic Languages offers standard and honors programs in Slavic studies. This concentration integrates study of the languages, literatures, and civilizations of the Slavic world. Built on sound knowledge of one or two Slavic languages, the program allows students to develop an in-depth appreciation and understanding of the East European cultures and civilizations on which they are primarily focused through a broad spectrum of interdisciplinary fields at Brown. All concentrators are strongly encouraged to study abroad in a Slavic country, either during the academic year or the summer. Students can enroll in the Brown-in-St.-Petersburg summer program and the Brown-in-Prague semester program. Brown also has approved exchange programs in Moscow, Petersburg, Prague, and Yaroslavl.

Requirements

1. Six semesters of one Slavic language or the equivalent (normally Czech or Russian), or a combined total of eight semesters of two Slavic languages or the equivalent.

2. Seven 1000-level courses devoted to the study of the East European civilizations: literature, history, culture, theater, political science, economics, international relations. Typically, at least four of these courses will be from within the Department of Slavic Languages. Students’ choice of courses is subject to the approval of the concentration advisor.

Honors

Honors candidacy in Slavic studies assumes an excellent academic record, particularly in the concentration. Additional requirements are the same as those for a standard concentration, plus the writing of a senior thesis (SLAV 1990). For procedures and schedule for writing a senior thesis, please refer to the department guidelines.

Sociology (changes pending CCC approval)

The Sociology concentration exposes students to some of the most important issues in the social sciences: international development and globalization, inequality in the United States and the global south, the environment and environmental change, the social organization of health and medicine, the self and society, and contemporary cities and urban problems. In addition, the concentration features a strong set of courses in the areas of statistics, methodology, and social theory. Sociology is an especially appropriate concentration for students who seek to develop their critical and analytical skills. These skills will allow them to continue to graduate or law school, if they so desire, or to take positions in a variety of fields in the private, non-profit, and public sectors.

Nine courses are required:

Three required courses:

- a. SOC 1010. Sociological Theory
- b. SOC 1020. Research Methods
- c. SOC 1100. Statistics (or an equivalent).

Six optional courses:

- a. At least four of the optional courses have to be 1000-level courses and one of them a senior seminar.
- b. Students can choose to take up to two lower level (0100-level) courses.
- c. Students can petition to take a course outside of the concentration (this will be allowed only when the proposed course makes sense given the interests of the student, and there is no equivalent sociology course).

Honors

The honors program in Sociology offers an excellent opportunity for students who seek to pursue independent and original research during their senior year. Acceptance into the honors program requires a grade of "A" in at least one half of all sociology courses. Honors students must write a thesis under the guidance of two sociology faculty members, an advisor and a reader. In addition, they must enroll in SOC 1950 (Senior Seminar) and SOC 1980 and 1990 (Senior Honors Thesis) in order to develop the substantive integration of the concentration studies, and to prepare the thesis (with the advisor’s consent, students may substitute other courses for those listed above).

South Asian Studies

Students who concentrate in South Asian Studies should emphasize one or several aspects of this broad field. They may work primarily in a given chronological period (e.g. ancient, medieval, early modern or contemporary) or in a given geographical area (e.g. Bangladesh, Bengal, Maharashtra, North India, Pakistan, South India, Sri Lanka) or in a given discipline (e.g. anthropology, Hindi/Urdu, history, religion, or Sanskrit) but should also take courses in areas outside their chosen area of emphasis. The aim is to gain facility in using the approaches and methodologies of multiple disciplines for a better and broader understanding of historical and contemporary complexities of South

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
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Asian Nations and cultures. Courses are available or can be arranged in economics, literature, philosophy, political science, and theatre arts, as well as the core disciplines mentioned above. Each student should work out a coherent course of study in consultation with one or more members of the South Asia faculty listed below. Courses that allow the student to write a major paper on a topic related to South Asia may be included in those needed to fulfill the concentration requirement.

Course Requirements

All South Asian Studies concentrators must take and pass 10 courses as approved by their concentration advisor.

- These should include:
  - HIST 1580 The Making of Modern South Asia

At least one of the following courses in pre-modern history, philosophy, religious studies and literature:

- CLAS 0180 Indian Civilization through Its Literature
- CLAS 0810 Religious and Philosophic Thought in Ancient India
- CLAS 0820 Epics of India
- CLAS 0830 Classics of Indian Literature
- CLAS 0840 Classical Philosophy of India
- CLAS 0990 Concepts of Self in Classical Indian Literature
- HIST 1590 Beyond Hindu, Muslim: Recovering Early South Asia
- RELS 0140 Introduction to Indian Religions
- RELS 0130 Introduction to Hinduism

At least one of these social science courses:

- ANTH 1250 Film and Anthropology: Identity and Images in Indian Societies
- ANTH 1321 Impact on Colonialism: Gender and Nationalism in India
- ANTH 1131 Peoples and Cultures of India
- ANTH 2321 Coming to Terms with India
- POLS 1280 Politics of India (Varshney)

At least one course in the visual arts, modern literature, music, cinema, or theatre of South Asia such as:

- COLT 1410J The Partition of India in Fiction and Film: A Literature of Trauma
- HIAA 0060 Introduction to Indian Art
- HIAA 1410A Topics in Islamic Art: Islamic Art and Architecture on the Indian Subcontinent
- HNDI 1080 Advanced Hindi-Urdu
- MUSC 1933 The Music of India
- PRSN 1200 Iranian Cinema: Before and After the Islamic Revolution
- RELS 0910 Music, Drama, and Religion of India
- TSDA 1270 Non-Western Theatre and Performance

An Honors Thesis or a Capstone Course taken in an appropriate Department.

Five electives, two of which may be language courses in Hindi/Urdu or Sanskrit taken in conjunction with the language requirement.

If course rotations or the introduction of new courses warrant, substitutions within these categories may be made with approval of the faculty advisor.

Language Requirements

Proficiency in a South Asian language is required for the concentration. Students who are not native speakers of a South Asian language may prove proficiency by taking two years of Hindi/Urdu or of Sanskrit at Brown, by successfully passing a course at the intermediate (4th semester) level at Brown or the approved equivalent at another institution, or by successfully passing a special examination administered by an approved faculty member. Two courses taken to fulfill the language requirement may be counted among the elective courses required for concentration.

Study Abroad

All South Asian concentrators are encouraged to take Hindi/Urdu and to participate in Brown in India, a junior-year study abroad program at St. Stephen's College and Lady Shriram College in Delhi. Students can also opt to enroll in any other Brown approved study-abroad program in South Asia.

Capstone Project

All concentrators other than honors concentrators will designate an upper-level course in the area of their primary focus as their capstone course. The student will take this course during the senior year and will produce as part of the written work for the course a substantial paper or annotated translation displaying the unique focus of his or her concentration.

Honors

A South Asian Studies Concentration with Honors requires a high B or A average in courses taken for the concentration as well as an honors thesis in the department of the student's main focus. Candidates for the honors program should apply to the South Asia Faculty Group through their advisor by the middle of their sixth semester.

Concentration Advisors

The following are members of the South Asia Faculty and should be consulted according to the student's disciplinary interests. All students should file their concentration forms with the concentration advisor, currently Lina Fruzzetti.

- John Emigh, Theatre Arts and Performance Studies
- Lina Fruzzetti, Anthropology Department
- Ashok Koul, Hindi-Urdu
- Peter Scharf, Classics; Sanskrit
- Donna Wulff, Religious Studies
- Vazira Zamindar, History
- James Fitzgerald, Classics
- Vasuki Nesiah, International Relations
- Ashutosh Varshney, Political Science

The following is a list of possible South Asian courses. This list is not exhaustive, as any class which allows the concentrator to complete a

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
substantial final project on South Asia may be counted towards the concentration requirements. Classes marked by an asterisk (*) are either sections of special topics courses still in the course catalogue or are offered irregularly. Check current course listings on Banner for more information.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>HNDI 0100</td>
<td>Beginning Hindi or Urdu (Koul)</td>
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<tr>
<td>HNDI 0200</td>
<td>Beginning Hindi or Urdu (Koul)</td>
</tr>
<tr>
<td>HNDI 0300</td>
<td>Intermediate Hindi-Urdu (Koul)</td>
</tr>
<tr>
<td>HNDI 0400</td>
<td>Intermediate Hindi-Urdu (Koul)</td>
</tr>
<tr>
<td>HNDI 1080</td>
<td>Advanced Hindi-Urdu (Koul)</td>
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</tbody>
</table>

- *HNDI 0400 Intermediate Hindi-Urdu (Koul) |
- *HNDI 0300 Intermediate Hindi-Urdu (Koul) |
- *HNDI 0200 Beginning Hindi or Urdu (Koul) |
- *HNDI 0100 Beginning Hindi or Urdu (Koul) |

- *ANTH 0066K International Perspectives of Women's Agency and Society (Fruzzetti) |
- ANTH 1131 Peoples and Cultures of India (Fruzzetti) |
- ANTH 1220 Comparative Sex Roles (Fruzzetti) |
- ANTH 1250 Film and Anthropology: Identity and Images in Indian Societies (Fruzzetti) |
- ANTH 1311 Impact on Colonialism: Gender and Nationalism in India (Fruzzetti) |
- ANTH 2320 Ideology of Development (Fruzzetti) |
- ANTH 2321 Coming to Terms with India (Fruzzetti) |
- CLAS 0180 Indian Civilization through Its Literature (Fitzgerald, Scharf) |
- CLAS 0810 Religious and Philosophic Thought in Ancient India (Fitzgerald, Scharf) |
- CLAS 0820 Epics of India (Fitzgerald) |
- CLAS 0830 Classics of Indian Literature (Fitzgerald, Scharf) |
- CLAS 0840 Classical Philosophy of India (Fitzgerald, Scharf) |
- CLAS 0990 Concepts of Self in Classical Indian Philosophy (Scharf) |
- *COLT 1410J The Partition of India in Fiction and Film: A Literature of Trauma |
- *COLT 1420Z Post-Colonial Narratives: Fiction, Memoir, Theory |
- *COLT 1421C Subaltern Studies: History, Literature, Theory |
- DEVL XXXX (Several courses in Development Studies are potentially appropriate; check to see if the course allows for a South Asian focus) |
- ECON 1520 The Economic Analysis of Institutions (Munshi) |
- *HIAA 0060 Introduction to Indian Art |
- *HIAA 1410A Topics in Islamic Art: Islamic Art and Architecture on the Indian Subcontinent (Bonde) |
- *HIST 0970V Gandhi's Way (Zamindar) |
- *HIST 1971L History of Islamic Law: Theory and Practice (Akbari) |
- *HIST 1440 Islamic History 1400-1800 (Akbari) |
- HIST 1580 The Making of Modern South Asia (Zamindar) |
- HIST 1590 Beyond Hindu, Muslim: Recovering Early South Asia (Zamindar) |
- *HIST 1950B European Empires in the East (1500-1800): A Comparative Analysis (Flores) |
- *HIST 1950E Europe and the Indian Ocean 1500-1800 (Flores) |
- *HIST 2971A Science in a Colonial Context |
- INTL 1800J Identity, Rights, and Conflict (Nesiah) |
- INTL XXXX (Several other courses in International Relations are potentially appropriate; check to see if the course allows for a South Asian focus) |
- HNDI 0100 Beginning Hindi or Urdu (Koul) |
- HNDI 0200 Beginning Hindi or Urdu (Koul) |
- HNDI 0300 Intermediate Hindi-Urdu (Koul) |
- HNDI 0400 Intermediate Hindi-Urdu (Koul) |
- HNDI 1080 Advanced Hindi-Urdu (Koul) |
- MUSC 0041 World Music Cultures (Middle East and Asia) (Perlman) |
- *MUSC 1933 Music of India (Perlman) |
- *PHIL 0090 Philosophy East and West |
- POLS 0210 Understanding Radical Islam |
- POLS 1380 Ethnic Politics and Conflict (Cook) |
- POLS 1430 Roots of Radical Islam |
- PRSN 0100 Basic Persian (Anvar) |
- PRSN 0200 Basic Persian (Anvar) |
- PRSN 0300 Intermediate Persian Language and Culture (Anvar) |
- PRSN 0400 Intermediate Persian Language and Culture (Anvar) |
- PRSN 1200 Iranian Cinema: Before and After the Islamic Revolution (Anvar) |
- RELS 0040 Great Contemplative Traditions of Asia (Roth) |
- *RELS 0090B Hindu and Christian Modes of Loving Devotion (Wulff) |
- RELS 0100 Introduction to Buddhism (Roth) |
- RELS 0130 Introduction to Hinduism (Wulff) |
- RELS 0140 Introduction to Indian Religions (Wulff) |
- RELS 0150 Introduction to Islam (Khalek) |
- RELS 0500 The Theory and Practice of Buddhist Meditation (Roth) |
- RELS 0540 Buddhist Psychology (Roth) |
- *RELS 0610 Islam and South Asia |
- RELS 0640 Martyrdom and Jihad in Islamic Tradition (Khalek) |
- RELS 0910 Music, Drama, and Religion in India (Wulff) |
- RELS 0920 Women, Gender, and Religion in South Asia (Wulff) |
- RELS 1520 Pilgrimage in the Land of Medieval Islam (Khalek) |
- RELS 1530 Methods and Problems in Islamic Studies (Khalek) |
- RELS 1540 Monks, Mystics and Martyrs (Khalek) |
- SANS 0100 Elementary Sanskrit (Fitzgerald, Scharf) |
- SANS 0200 Elementary Sanskrit (Fitzgerald, Scharf) |
- SANS 0300 Intermediate Sanskrit (Fitzgerald, Scharf) |
- SANS 0400 Intermediate Sanskrit (Fitzgerald, Scharf) |
- SANS 1020 Early Sanskrit Philosophy and Religion (Fitzgerald, Scharf) |
- SANS 1080 The Central Episodes of the Mahabharata (Fitzgerald) |
- SANS 1100 Vedic Sanskrit (Fitzgerald, Scharf) |
- SANS 1400 The Sanskrit Grammatical Tradition (Scharf) |
- SANS 1800 Classical Schools of Indian Philosophy (Fitzgerald, Scharf) |
- SANS 1910 Advanced Sanskrit (Fitzgerald, Scharf) |
- SANS 1990 Conference: Especially for Honors Students in Sanskrit (Fitzgerald, Scharf) |
- TSDA 1270 Non-Western Theater and Performance (Emigh, Mia) |
- *URBN 1870B Business Networks in Asia |

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**Overview and Goals of the Program:**

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
Statistics has a theoretical core surrounded by a large number of domains of application in diverse fields, including economics, psychology, biology and medicine, sociology, population sciences, government, anthropology, astronomy, physics, chemistry, geology, engineering, and computer science. At Brown, graduate training in Biostatistics is available in the Department of Community Health and in Mathematical Statistics in the Division of Applied Mathematics. In addition, several other departments are offering introductory and even advanced courses in statistical methodology, including the Departments of Economics, Sociology, Psychology, Political Science and Computer Science.

The Undergraduate Concentration in Statistics, established in 1997, is an interdepartmental program, administered by the Center for Statistical Sciences and leading to the Sc.B. degree. It is supervised by a faculty program committee, representing all interested departments. The program is constructed on several premises: that statistics is a scientific discipline in its own right, with its characteristic methodology and body of knowledge; that it is essentially concerned with the art and science of the analysis of data; and that it is best taught in conjunction with specific, substantive applications. To this end, the concentration is designed to provide a foundation of basic concepts and methodology, requiring students to take core courses in the discipline itself, and to expose students to a cross-section of statistical applications, through courses (of their own selection and subject to approval) in the social, biological, and natural sciences. In a senior honors thesis, each student will be required to carry out a major project of statistical data analysis in one of these disciplines. The Concentration prepares students for careers in industry and government, for graduate study in statistics or biostatistics and other sciences, as well as for professional study in law, medicine, business, or public administration.

Program Requirements:

The program begins with a foundation in mathematics and computing, combined with an elementary introduction to statistical thinking and practice. A set of three core courses builds on this foundation by providing a comprehensive account of the fundamentals of statistical theory and data analysis. At this point, the students in the concentration are ready to delve into more advanced material covering important areas of statistical methodology. In addition to formal coursework, students will have opportunities to acquire practical experience in study design, data management, and statistical analysis by working as undergraduate research assistants in projects in one of the participating academic departments or research centers at Brown.

The concentration requires twelve one-semester courses and participation in the senior seminar. The required courses are as follows:

**Level I: Foundations**

- Mathematics: Three courses, including courses in multivariate calculus and linear algebra.
- Computing:
  - APMA 0160 (Introduction to Computing Sciences)
  - Introduction to statistical thinking and practice: one of the following
    - ECON 1620 (Introduction to Econometrics)
    - APMA 0650 (Essential Statistics)

**Level II: Core courses in theory and data analysis**

- Foundations of mathematical statistics:
  - APMA 1650, 1660 (Statistical Inference)
  - or MATH 1610 (Probability), 1620 (Mathematical Statistics)
- Principles of Biostatistics and Data Analysis: PHP 2510

**Level III: Advanced courses in statistical methods**

- Statistical Computing: APMA 1690 (Computational Probability and Statistics)
- Applied regression analysis: PHP 2511
- Two electives from the following courses:
  - Social Sciences:
    - ECON 1630, 1640 (Econometrics)
    - ECON 2030 (Introduction to Econometrics I)
    - ECON 2040 (Econometric Methods)
    - ECON 2630 (Econometric Theory)
    - ECON 2640 (Microeconometrics)
    - SOC 2010 (Multivariate Analysis)
    - SOC 2220 (Advanced Quantitative Methods of Sociology Analysis)
    - SOC 2230 (Techniques of Demographic Analysis)
    - SOC 2960G (Spatial Data Analysis Techniques in the Social Sciences)
  - Biostatistics:
    - APMA 1710 (Information Theory)
    - APMA 1810 (Inference in genomics and Molecular Biology)
    - APMA 2810R (Computational Biology Methods for Gene/Protein Networks and Structural Proteomics)
    - BIOL 1420 (Experimental Design in Ecology)
    - PHP 2620 (Statistical Methods in Bioinformatics)
    - PHP 2630 (Modern Methods for Categorical Data Analysis)
    - PHP 2220 (Methods in Epidemiologic Research)
    - PHP 2520 (Analysis of Lifetime Data)
    - PHP 2030 (Clinical Trials of Methodology)
    - PHP 2603 (Analysis of Longitudinal Data)
    - PHP 2530 (Bayesian Statistical Methods)

Prospective students will be able to obtain Advanced Placement credit for the requirements in mathematics, computing, and introductory statistics. Students who have already completed an introductory course in statistics will be granted permission to proceed to Level II core courses if they meet the prerequisites in mathematics and computing.

**Honors**

Honors work in statistics requires the completion of a senior thesis and a superior record in the concentration.

**Contact Information:**

The concentration is administered by the Center for Statistical Sciences, located at 121 South Main Street, 7th floor. For inquiries/administrative matters please contact: Susan Furtado, Box G-S-121-2; Telephone: 401-863-3681; Fax: 401-863-3713; e-mail: Susan Furtado

For further information on the program please contact: Professor Jean Wu, Center for Statistical Sciences, Box G-S-121-7; Telephone: 401-863-1230; Fax: 401-863-9182; e-mail: Jean Wu

For complete, up-to-date course information please see the Banner Schedule (http://selfservice.brown.edu/menu).
Theatre Arts and Performance Studies

The Department of Theatre Arts and Performance Studies offers two tracks within its concentration: Theatre Arts, and Performance Studies. Each track has classes that overlap with the other tracks. Each track requires 10 courses to fulfill the concentration requirements.

Theatre Arts Track

This concentration combines the study of dramatic literature, theatre history, performance theory, and studio work in the various theatre arts. All concentrators in Theatre Arts will gain practical experience through the study of acting and directing as well as in the technical production of plays, preparing students in the practical study of a cross-section of the vital aspects of theatre craft, including one class in either dance or speech. An essential aim of the concentration track is the engagement of students in performance procedures (acting, dancing, directing, choreography, design, playwriting, dramaturgy, etc.) in order to experience the inter-relationships among social contexts, dramatic texts and theatrical enactments. Along with practical study in craft, concentrators will graduate having studied theatre history and performance theory in global perspective. The study of theatre history provides a Theatre Arts concentrator with the necessary background to understand a variety of dramatic and theatrical forms. The study of performance theory enhances a student’s ability to ask fundamental questions about the role of theatre in social, political, cultural and cross-cultural arenas.

Of the ten courses required, at least four must be in theatre history and dramatic and theatrical theory that forms a backbone for further study in these areas. Students should take at least one course that exhibits geographic or topical breadth beyond what might loosely be called “mainstream” Euro-American tradition. Basic courses in technical theatre and design are required of all students, as is a senior seminar, taken by most students in their seventh semester. The remaining three courses for the concentration may be taken in areas of applied theatre (though this is not a requirement); there are sequences of courses available in acting/directing, playwriting, design/technical theatre, and dance.

Students wishing to enroll as concentrators in Theatre Arts and Performance Studies and take the Theatre Arts track should see Professor Lowry Marshall, who serves as the undergraduate Theatre Arts and Performance Studies track advisor, in order to discuss options that will best serve their interests.

Required Courses

1: TSDA 0230 Acting/Directing
2: TSDA 0250 Technical Production of Plays
3: TSDA 1230 Performance Theory: Ritual, Play and Drama in Context
4: TSDA 1240 Performance Historiography and Theatre History
5: TSDA 1250 Twentieth-Century Western Theatre and Performance
6: One course in Dramatic or Performance Literature, Theory, History and/or Criticism offered or cross-listed in the department *
7: Either TSDA 0220 or any dance history or practice course. *
8-9: Two electives to be selected from applied areas and/or from relevant theoretical and text-based studies throughout the university. *

Performance Studies Track

The Performance Studies track in the Theatre Arts and Performance Studies concentration offers a base for students interested in a variety of performance forms, performance media, or in intermedial art. A concentrator in this track will study the multiple modes in which live performance articulates culture, negotiates difference, constructs identity, and transmits collective historical traditions and memories. Because Performance Studies is not primarily invested in one performance mode over another (such as theatre or dance), a concentrator will gain exposure to a broad spectrum of performance modes. Studying ritual, play, dance, dance allow for geographic and historical flexibility as not all cultures use theatre to dance, nor, historically, genres of religious or political rituals in genres of entertainment, play, or game. At least two of the ten required classes must show geographic or cultural breadth, and be approved as such by the undergraduate concentration advisor. Participation in practical classes in modes of performance is also required.

Students wishing to enroll as concentrators in Theatre Arts and Performance Studies and take the Performance Studies track should see Professor Patricia Ybarra, who serves as the undergraduate Performance Studies track advisor, in order to discuss options that will best serve their interests.

Required Courses

1: TSDA 1230 Performance Theory: Ritual, Play and Drama in Context
2: TSDA 1240 Performance Historiography and Theatre History
3-5: Three of the following, one of which must show geographical breadth:

- TSDA 1250 Twentieth-Century Western Theatre and Performance
- TSDA 1270: Non-Western Theatre and Performance
- TSDA 1330: Dance History: The 20th Century
- TSDA1280N: New Theories for a Baroque Stage
- TSDA 1281H: Black Diaspora, Dance and Vernacular Embodiments
- TSDA1280T: Contemporary Mande Performance
- TSDA 1380: Mise en Scene
- TSDA 1430: Russian Theatre and Performance
- TSDA 1610 Political Theatre of the Americas

Textbook information for classes that have ordered materials through the Brown Bookstore will be available in the Brown Course Scheduler as of July 1, 2010.
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- TSDA 1610: Performativity and the Body: Staging Gender, Staging Race
- TSDA 1640: Theatre and Conquest
- TSDA 1650: 21st Century American Drama
- TSDA 1670: Latino Theatre and Performance
- TSDA 1690: Performance, Art, and Everyday Life
- TSDA 2120: Revolution as a Work of Art
- AFRI 0990: Black Lavender: Black Gay/Lesbian Plays/Dramatic Constructions in the American Theatre
- AFRI 1110: Voices Beneath the Veil
- AFRI 1120: African American Folk Traditions and Cultural Expression

6-7: Two full credit courses based in performance craft in either Acting, Directing, Speech, Dance, Design, Literary Arts (with a performance emphasis), Visual Arts or Music. These classes must be approved by the concentration advisor.

8-9: Two additional courses in the academic study of performance and performance culture(s) to be culled from those listed above as well as other courses in the Department of Theatre Arts and Performance Studies or throughout the university in consultation with advisor. An extensive list of courses that might be considered Performance Studies can be made available to interested students

10: TSDA 1520 Senior Seminar

For all concentrators, regardless of track:

In cases where dual concentrations are declared, the Department allows two courses to be counted toward both concentrations.

Honors:

The standard pattern above, plus an honors thesis (TSDA 1990), the topic of which would be determined before Semester VII. Candidates for the honors program should have an outstanding academic record and should apply to the Department by Semester VI. The honors advisor is Prof. Patricia Ybarra.

Further Aides to Successful Concentration Experiences:

Capstone Experiences:

The tracks come together in several courses but also in a culminating senior seminar. In addition to the senior seminar there are a wide variety of ways students who concentrate can construct a “capstone” experience—such as directing a production, a solo performance, a dance piece, an honor’s thesis, or a design project.

Urban Studies

The Urban Studies Program focuses on urban phenomena through the approaches of different disciplines, thus providing an interdisciplinary context in which to understand various dimensions of urban life and the urbanization process. Although the program provides sufficient flexibility to allow students to pursue specific interests without being overly bound by requirements, it is designed so that there is a basic core content to the program of study. Within that, students can follow one of three focus areas, mix and match, or design their own focus. The program is structured to ensure that each student will undertake two or more research or fieldwork projects, as part of their course work as an undergraduate. The primary aim of the program is to contribute to a broad, liberal education. Its purpose is to satisfy the needs of those students who are interested in urban phenomena but do not feel well served by the existing departmental programs in a single discipline.

For a concentration, the program requires ten courses selected from four course groups:

1. Introduction (one course): URBN 0210 or POLS 0220.

2. Research Skills (one course): ECON 1620; EDUC 1110; POLS 1600 or SOC 1100. There are also other statistics courses offered by other departments (e.g., Applied Mathematics, Cognitive Sciences, and Psychology). On occasion, an alternative research skills course may be approved for a specific concentration.

3. Basic Curriculum (total of 6 different courses required):

   a. Core Courses: Three courses required (covering 3 of the 7 core areas: American Civilization, Economics, History, History of Art and Architecture, Literature, Political Science, and Sociology) selected from among: AMCV 1520, 1530; COLT 1810C; ECON 1410; ENGL 0800A; HIAA 0700, 0840, 0850, 0860, 0900, 1850D; HISP 1500C; HIST 1820, 1830; POLS 0220, 1320; SOC 1330, 1640; URBN 1200.

   b. Seminar Courses: (3 courses required). The courses provide opportunities to undertake research or fieldwork projects and all qualify as "capstone" experiences. AMCV 1903E; EDUC 1650; ENGL 1760F, 176OK; ETHN 1870A; HIAA 1910A; HIST 1974F, 1974T; POLS 2220; URBN 1000, 1010, 1420, 1870A, 1870D, 1870E, 1870F, 1870H, 1870i, 1870j, 1870M, 1870N.

4. Complementary Curriculum (two courses required):

   a. Any course(s) listed in groups 1 and 3 above, and not used to fulfill this requirement.

   b. Any of the following from recent listings of courses around the University: AFRI 0600, 0620; AMCV 0150I, 1611A, 1612D, 1912A; ARCH 0400, 1150, 1200F, 1600, 1900, 2020B, 2040A; COLT 1810H, 2820; EDUC 1150; ENGL 0200K, 1710I; ENGN 1930S; ENVS 1410, 1700A, 1920; ETHN 1890A; GEOG 1320; GRMN 1660B; HIAA 0020, 0490, 0550, 0560, 1200D, 1560C, 1850C; HIST 1540, 1670, 1972V; POLS 1310; PPAI 1200, 1700J, 1700Q, 1700R; SOC 0130, 1270, 1540, 1871F. Other options may be available with approval of the concentration advisors.

   c. RISD courses approved by the Urban Studies Program each semester as applicable to the Urban Studies concentration. No more than two may be used to satisfy the requirements of this concentration. The RISD course is identified in the student's record at Brown by a RISD course code.

Off-Campus Courses: Some courses taken outside Brown (e.g., in study abroad programs) may be used for credit towards the concentration if the material covered directly corresponds to that taught in Brown courses, or is relevant to the complementary curriculum. Such courses will be approved each semester by the concentration advisor.

5. Honors Candidates for Honors must apply to the Director of the Program in letter form by the middle of the second semester of their junior year. They must include a brief statement of the intended research proposal required for honors, as well as the name of the member of the Urban Studies faculty who would serve as their advisor and with whom they must work closely. They must also arrange for a
second advisor/reader. Honors candidates must maintain a high grade record. Twelve courses are required of an Honors concentrator, two in addition to the ten courses required for a standard program. These two courses may be either one research skills course and one thesis preparation (one independent reading and research - URBN 1970, one semester course), or two thesis preparation (URBN 1970, two semesters). The candidate's thesis and course record must be of outstanding quality, in order to qualify for honors.

Possible Focus Areas: To help guide students in the basic curriculum, we list courses that belong to three broad focus areas. Students need not follow these areas and are encouraged to "mix and match" or develop their own focus. The basic curriculum is divided between core and seminar courses. The latter all provide students with opportunities to carry out research and fieldwork projects and all qualify as "capstone" experiences. The focus areas are:

**Literature and Arts**: AMCV 1611A; COLT 1810C; ENGL 0800A, 1760F, 1790K; HIAA 0700, 0840, 0860, 0900, 1850D; HISP 1500C; URBN 1870A.

**Social Sciences**: AMCV 1520, 1530, 1903E; ECON 1410; EDUC 1650; HIST 1820, 1830, 1974F, 1974T; POLS 0220, 1320; SOC 1640; URBN 1000, 1200, 1420, 1870A, 1870D, 1870F, 1870I, 1870J, 1870M.

**Urban Built Environment**: AMCV 1520, 1530, 1903E; ECON 1410; HIAA 0700, 0840, 0860, 1850D, 1910A; HIST 1820, 1830; URBN 1000, 1010, 1200, 1870D, 1870E, 1870F, 1870N.

**Concentration Advisors**: Professors Chudacoff, Henderson, Katz, Morone, Neumann, Orr, Silver, Wong, and Zipp.

Total number of courses: 10 (concentration) 12 (honors)

**Visual Art**

This concentration, directed toward the practice of art, is broadly based in the studio areas of painting, sculpture, printmaking, drawing, photography, and digital imaging. Courses in art history combine with these to frame the direction of the concentrator's work and to give them skills in critical thinking. Students are encouraged to develop their own direction and to cultivate an informed and thoughtful individual perspective.

The concentration program consists of twelve courses.

**Introductory Course Requirements** (3 courses)

1. VISA 0100 Studio Foundation, or VISA 0110 Advanced Studio Foundation, and VISA 0120 Foundation Media, per class of 2011. VISA 0100 and VISA 0110 do not count as one of the 7 studio concentration requirements; VISA 0120 does count towards the requirements. VISA 0100 or VISA 0110 are prerequisites for all studio courses.

2. HIAA 0010, Introduction to the History of Art and Architecture, or HIAA 0020, Introduction to the History of Architecture and Urbanism or HIAA 0030, Foundations of Western Art in Antiquity. (Unless waived these courses are concentration requirements.)

**Concentration Program Requirements**

1. VISA 1110 Drawing I (will be counted as one of the 7 studios).