HISTORY OF THE GRADUATE SCHOOL

Brown University is the seventh oldest institution of higher learning in America. Founded in 1764 as the College of Rhode Island in Warren, Rhode Island, the school moved in 1770 to its present location on College Hill overlooking the capital city of Providence. In 1804, in recognition of a gift from Nicholas Brown, the College of Rhode Island was renamed Brown University. Graduate study at Brown University began in 1850, when provision was made for the awarding of the Master's degree upon successful completion of one year of academic work beyond the Bachelor's degree. This system was discontinued in 1857. The more modern tradition of graduate study at Brown began in 1887, when the Faculty and Fellows agreed to publish in the Catalogue of the next year, rules for the awarding of both the Master's and the PhD in regular programs of advanced work. The first Master's degrees under the new plan were granted in 1888 and the first PhDs in 1889. Women were admitted to graduate study at Brown almost immediately thereafter, in 1892.

By 1900, Brown University had awarded twenty-three PhDs and eighty-nine Master's degrees under the administration of the Standing Committee of the Faculty, which was charged with this duty. In 1903, a Graduate Department was established with its own dean, Carl Barus, Hazard Professor of Physics, who served until 1926. In May 1927 the Graduate Department became the Graduate School.

Brown is committed to excellence in research as well as in teaching. All regular faculty members, while actively pursuing their own research and intellectual interests, teach in both graduate and undergraduate programs and are active in the direction of theses and dissertations. Today, the University consists of the undergraduate College, the Graduate School, and the Medical School. Its regular teaching faculty numbers about 550 and its student body approximately 7,700, including 1,400 graduate students. In 2003, Brown conferred 143 PhD and 124 Master's degrees.

FACILITIES

The University's extensive facilities include four principal University libraries (the Rockefeller, which houses most of the resources in the humanities and the social sciences; the Sciences Library; the John Hay, where special collections, including the Harris Collection of American Poetry and Plays, and the University Archives are housed; and the John Carter Brown, which is devoted entirely to Americana. The Annmary Brown Memorial is a smaller library that serves as a repository of incunabula. Nearby are the Providence Public Library, the Providence Athenaeum, the library of the Rhode Island Historical Society and the library of the Rhode Island School of Design. More than 3,000,000 volumes are available to students at the University and city libraries.

The important laboratory facilities include the W. Duncan MacMillan Hall (Chemistry, Geological Sciences and Environmental Sciences), the Geo-Chem Building, the Lincoln Field Building (Geological Sciences), the Barus and Holley Building (Engineering and Physics), the Prince Engineering Laboratory, the Medical Research Laboratory, the Biomedical Center, the Hunter Biological Laboratory, the Metcalf Research Building (Cognitive and Linguistic Sciences and Neuroscience), and The Thomas J. Watson, Sr. Center for Information Technology which houses several computer classrooms, a public computer cluster, and the University's mainframe computer.

Significant among the facilities of the social sciences are the Haffenreffer Museum of Anthropology, the Social Science Data Center and the Americana collections of the John Carter Brown Library.

CENTERS

The University sponsors a number of centers for the promotion of interdisciplinary study, research and instruction. These centers offer graduate students a special opportunity for enlarging the scope of their academic endeavors. While the centers normally do not administer graduate degree programs, they can and do work in close cooperation with interested departments and individuals in forming and developing programs of study beyond those normally offered by the individual departments.

They include:

- The Alfred Taubman Center for the Study of Public Policy
- The Center for Alcohol and Addiction Studies
- The Center for Gerontology and Health Care Research
- The Center for Human Development (Child Study)
- The Center for Latin American Studies
- The Center for Statistical Sciences
- The Center for the Study of Financial Markets and Institutions
- The Center for the Study of Languages
- The Center for the Study of Race and Ethnicity in America
- The Lelschetz Center for Dynamical Systems
- The Pembroke Center for Teaching and Research on Women
- The Population Studies and Training Center
- The Social Science Data Center
- The Watson Institute for International Studies

CLASSIFICATION OF STUDENTS

Regular Students: All students who are admitted to an advanced degree program with full graduate standing

Special Students: Students who are not candidates for advanced degrees.

All students may be classified as either full-time or part-time, so long as there is no legal or contractual barrier to the classification.

DEGREE REQUIREMENTS

The statements in this section describe the minimal quantitative requirements for advanced degrees. Each of the graduate programs has its own standards of quality and achievement and these, too, must be met. The mere mechanical fulfillment of the stated basic requirements will not by itself earn any advanced degree.

Master's Degrees: The minimum requirement for a Master's degree is eight graduate-level courses, successfully completed. Normally, all work to be used in fulfillment of the requirements for a Master's degree must be completed within a period of five years. There is no provision for working for any Master's degree outside the established programs.

Individual departments and programs may have additional requirements regarding the number of courses to be taken, proficiency in foreign languages, special examinations, and theses. The department should be consulted for such information about a specific program.

Doctor Of Philosophy: There are three general requirements for the PhD: residence, advancement to candidacy and the dissertation. The normal residency requirement is the equivalent of three years of full-time study beyond the Bachelor's degree (i.e., twenty-four tuition units). At least two semesters beyond the Master's degree must be spent exclusively in full-time study at Brown University. A student is advanced to candidacy for the PhD when he or she has satisfactorily completed all the requirements, departmental and general, requisite to beginning work on the dissertation. Candidacy is determined by the department or program of the degree and certified by it to the Registrar and to the Graduate Council.

The candidate must present a dissertation on a topic related to his or her area of specialization which embodies the results of original research and gives evidence of high scholarship. The dissertation must be approved by the professor under whose direction it is written and by the Graduate Council. All requirements for the PhD must be completed within five years after advancement to candidacy.

The PhD is primarily a research degree and, in some departments, there is a formal supervised research requirement for the degree. Teaching is also an important part of the program and some departments require candidates for the PhD to have teaching experience.

Individual departments and programs may have additional requirements regarding the number of courses to be taken, proficiency in foreign languages, special examinations, and theses. The department should be consulted for such information about a specific program.

Special Graduate Study: If, after at least one year of full-time graduate study at Brown, a student wishes to pursue scholarly work which cannot be accommodated within an existing PhD program, the student may apply for permission to enroll as a doctoral candidate in a special graduate study. Application entails drafting a self-designed plan of study, submitting a petition to the Graduate Council for approval and fulfilling the general requirements of the Graduate School for the PhD at Brown.

Cross-Registration: Graduate students at Brown and Harvard who are enrolled in selected doctoral programs may, with the approval of the student's department and the Graduate School, cross-register for a limited number of specific courses. Such courses may not exceed two in any given semester and eight cumulatively.

Exchange Scholar Program: Brown University participates in an Exchange Scholar Program which enables advanced graduate students to study for one or two semesters in the graduate schools of one of the other participating institutions, including the University of California at Berkeley, the University of Chicago, Columbia University, Cornell University, Harvard University, the Massachusetts Institute of Technology, the University of Pennsylvania, Princeton University, Stanford University and Yale University.

Courses taken and research conducted with particular faculty members at one of the institutions above will be registered on the academic record and official transcript at Brown. Students are eligible to be Exchange Scholars only after completing an academic year of study in a doctoral degree program at Brown.

Participating students will be registered as Exchange Scholars with Brown and will hold special non-degree status at the host institution.

To apply, please go to: http://www.upenn.edu/grad/exchange.html

INTERNATIONAL APPLICANTS

All international applicants whose native language is not English must submit OFFICIAL evidence of the TOEFL (Test of English as a Foreign Language) score. The MINIMUM ACCEPTABLE SCORE for an applicant to be considered for admission in all departments is 500 (173 on the Computer-based Test). The TOEFL should be taken early enough to allow the score to reach the Graduate School no later than January 2. Application forms and information about testing dates
FINANCIAL SUPPORT

Most graduate students at Brown receive some form of university-funded support, usually covering tuition, the health services fee, health insurance, and often providing a stipend for living expenses. Last year, more than 70 percent of entering students and 85 percent of continuing students in the Graduate School received some form of financial support from the University. To supplement support from Brown, Federal Direct Student Loans and other loans may be available.

Because Brown University recognizes both merit and financial need as appropriate criteria for the awarding of financial aid to graduate students, all applicants (except foreign nationals) for fellowships, teaching fellowships, teaching assistantships, research assistantships, scholarships, and proctorships from the University and federal loan aid are REQUIRED TO SUBMIT A FAFSA (Free Application for Federal Student Aid). The FAFSA is available on request from the Financial Aid Office, Graduate School, Box 1867, Providence, RI 02912, or from the federal website at http://www.fafsa.ed.gov, or by calling 800/433-3243.

The University provides financial support in the form of fellowships, scholarships, teaching fellowships, teaching assistantships, research assistantships, assistantships, proctorships and teaching assistantships.

FELLOWSHIPS are awarded to both new and continuing students competitively based on academic merit. The award consists of a stipend, tuition, the health services fee and health insurance.

SCHOLARSHIPS are like fellowships in all respects except they include no stipend.

TEACHING FELLOWSHIPS are awarded to advanced students capable of conducting undergraduate courses. Appointments are made by the Graduate School upon recommendation of the department. The award includes a stipend, tuition, the health services fee and health insurance.

TEACHING ASSISTANTSHIPS are awarded to students who do not have primary responsibility for a course, but teach under the supervision of the faculty member responsible for the course. The award includes a stipend, tuition, the health services fee and health insurance.

RESEARCH ASSISTANTSHIPS are given to new as well as continuing students. They are a major form of support in the sciences. Some are awarded in the social sciences and a small number are provided in the humanities. Research assistants work with investigators on academic projects supported by the investigators’ grants or contracts. The award includes a stipend, tuition, the health services fee and health insurance.

ASSISTANTSHIPS are awarded to both incoming and advanced students. Assistants do not teach, but support classroom instruction by preparing materials, grading and consulting with students. The award includes a stipend, tuition, the health services fee and health insurance.

PROCTORSHIPS involve non-instructional academic employment. The award pays a stipend. Awards of tuition and the health services fee do not automatically accompany a proctorship.

TRAINEESHIPS carry with them stipulations as to the field of academic study. They depend for their existence on grants to faculty members, and are available in only a few departments. The award includes a stipend, tuition, the health services fee and health insurance.

THE FEDERAL DIRECT STUDENT LOAN PROGRAM may provide loans in amounts up to $18,500 per year to eligible applicants. International students are not eligible for these loans. The FAFSA form must be received by the Graduate School Financial Aid.
TUITION AND FEES

TUITION for the 2003-2004 academic year for regular full-time students is $29,200. Part-time students are allowed to pay according to the number of courses taken. The 2003-2004 rate is $3,630 per course.

Master's degree students must pay tuition for a minimum of one year of full-time study (eight units of tuition) unless credit has been allowed for graduate work done while in graduate residence at another institution. No more than one of the eight units can be replaced in this manner. Some Master's programs require more than the minimum of one year of full-time study.

PhD students must pay tuition for the equivalent of three years of full-time study (twenty-four units of tuition) unless credit has been allowed for graduate work done while in graduate residence at another institution. No more than eight of the required twenty-four units can be replaced in this manner.

Students who have fulfilled the tuition requirement, but not the academic requirements for their degree, must pay an enrollment fee until their academic work has been completed. For 2003-2004 the enrollment fee is $1752 per semester.

REQUIRED FEES include $510 for health services and a $30 student activity fee.

HOUSING AND MEALS

Miller Hall, a colonial style building located on the Pembroke campus at the north end of the University, provides housing for fifty graduate students. Almost all the rooms in this residence hall are singles and they are large and pleasant. One of the University's computer clusters is located near Miller Hall and the libraries, laboratories and main campus are all within a short walking distance. The 2003-2004 rate for a single room is $5030 for nine months. The University Refectory, which serves meals in cafeteria style, is close by. The 2003-2004 nine-month contract for twenty meals per week costs $3066. Other board plans with fewer meals are available. There are several other eating places within walking distance.

Additional housing information may be obtained from the Rental Facilities Office, Box 1867, Brown University, Providence, RI 02912; telephone 401/863-3500.

Brown has no housing for married students who, for the most part, live in apartments or rooms in the University's immediate neighborhood. The University maintains a list of houses, apartments and rooms for rent. Contact the Rental Facilities Office, Box 1802, Brown University, Providence, RI 02912, telephone 401/863-2541, web URL http://www.brown.edu/Administration/Rental_Facilities/.

FIELDS OF STUDY. The program strives for a rigorous interdisciplinary approach to the diverse cultures, groups, and experiences that make up American civilization. The faculty work in folklore, nineteenth century literature, environmental literature, oral history, popular culture, history of technology, material culture, museum studies, ethnic studies (particularly Asian American and Latino studies). Afro-American studies, medical history, social welfare history, family and childhood history, history of the American left, gender and women's history. Students also take courses with faculty in other departments including African studies, anthropology, biology, English, history, modern culture and media, music and political science. The core of the graduate program has traditionally been American history and literature and these disciplines continue to serve as a basis for students to study issues surrounding race, ethnicity, gender, and social class.

FACILITIES. The Center for the Study of Race and Ethnicity and the Pembroke Center for Teaching and Research on Women at Brown promises additional facilities and chances for collaboration. Brown University offers other facilities for research in American civilization including the Americana Collection of the John Carter Brown Library, the Harris Collection of American Poetry and Plays, and the McClenan Collection of Lincolniana.

REQUIREMENTS FOR THE AM. Introduction to Interdisciplinary Methods (AC201), three graduate seminars; four lecture courses; no more than four courses in any one discipline.

REQUIREMENTS FOR THE AM in AMERICAN CIVILIZATION/MUSEUM STUDIES. Course requirements for the AM, four additional courses in museum studies; summer internship.

REQUIREMENTS FOR THE PHD. Course requirements for the AM; American Studies: Method and Theory (AC252), one research seminar, teaching one semester; oral preliminary examination; dissertation and oral defense.

ADMISSION. GRE: General Test required. Writing Sample: recommended (area of intended specialization). Interview: recommended.

POSTAL ADDRESS. Department of Anthropology, Box 1921, Brown University, Providence, RI 02912
E-MAIL ADDRESS. Anthropology@brown.edu
VOICE. 401-863-7588
FAX. 401-863-7388
WEB URL. http://www.brown.edu/Departments/Anthropology/
APPLICATION DEADLINE: JAN. 15

ANTHROPOLOGY

AM, PhD


FACILITIES. The University offers a variety of research and teaching facilities in the Anthropology Department. The Brown Museum of Natural History is one of the nation's largest and most diverse museums of anthropology. The department also has a significant collection of cultural and natural history materials, including the Americana Collection of the John Carter Brown Library, the Harris Collection of American Poetry and Plays, and the McClenan Collection of Lincolniana.

REQUIREMENTS FOR THE PHD. The program is designed to provide students with a broad understanding of the field of anthropology, with a focus on research in areas of their choosing. Students are required to complete a minimum of six courses in the field, including coursework in cultural anthropology, ethnology, archaeology, linguistics, and applied anthropology. Students must also complete a comprehensive exam in their area of specialization, and a dissertation under the supervision of a faculty advisor. The program is designed to take four to five years to complete, depending on the student's progress.

ADMISSION. GRE: General Test required. Writing Sample: recommended (area of intended specialization). Interview: recommended.

POSTAL ADDRESS. Department of Anthropology, Box 1921, Brown University, Providence, RI 02912
E-MAIL ADDRESS. Anthropology@brown.edu
VOICE. 401-863-7588
FAX. 401-863-7388
WEB URL. http://www.brown.edu/Departments/Anthropology/
APPLICATION DEADLINE: JAN. 15

APPLIED MATHEMATICS

Scm, PhD


FIELDS OF STUDY. The division and its research groups maintain one of the best scientific research computing facilities in the nation.

REQUIREMENTS FOR THE SCM. Eight courses, of which at least six must be at the 200 level, at least six must be applied mathematics courses, and at least six must be completed with a grade of B or better.

REQUIREMENTS FOR THE PHD. One approved foreign language, preliminary oral examination; teaching two semesters; dissertation and oral defense.

ADMISSION. GRE: General Test required. Subject Test strongly recommended for those applying for financial aid.
BIOLOGICAL AND ENVIRONMENTAL SCIENCES
PhD

BROWN-MBL JOINT PROGRAM

Brown University and the marine Biological Laboratory at Woods Hole, MA, have recently established a new Graduate Program in Biological and Environmental Sciences. This program will allow graduate students to work with faculty at both institutions. Applications for admission to this program will be accepted for the 2004-2005 academic year. Interested candidates should apply through either Biology and Medicine, Physics, or Geology of Sciences.

WEB URL: http://www.brown.edu/MBL

BIOLOGY AND MEDICINE
AM, MAT, MMSc, MPH, ScM, MD-PhD, PhD


ARTIFICIAL ORGANS, BIOMATERIALS AND CELLULAR TECHNOLOGY

FIELDS OF STUDY. Interdisciplinary, including artificial organs, biomaterials, drug and gene delivery; polymer chemistry; tissue engineering; and integrated areas of biomedical engineering such as artificial skin, nerve regeneration, and vascular grafts.

REQUIREMENTS. Core courses in these fields of study, which are chosen from the curriculum of such disciplines as cell and molecular biology, materials science, and experimental surgery. Programs of study and research are developed individually in consultation with the student's advisor and advisory committee and are designed to ensure expertise in the student's principal field of interest.

WEB URL: http://bms.brown.edu/mpmb/abc.html

ECOLOGY AND EVOLUTIONARY BIOLOGY

FIELDS OF STUDY. Evolutionary biology; population and community ecology of marine plants and animals; population genetics; evolution of genetic systems; ecological genetics; mitochondrial genetics; plant-animal interactions; mammalian paleobiology and evolution; foraging ecology; pollination biology; dispersal of plants and animals; animal behavior; sexual selection; insect reproductive behavior.

REQUIREMENTS. Proficiency in ecological theory, field research methods, evolutionary theory, statistics; proficiency in areas relevant to specialization such as ethology or genetics through course work, seminars, independent reading and laboratory and field programs, teaching; two semesters. Interactions encouraged with other programs in the division and with other departments (e.g., applied mathematics, geobiological sciences, psychology).

EPIDEMIOLOGY, BIOSTATISTICS, AND HEALTH SERVICES RESEARCH

FIELDS OF STUDY. BIOSTATISTICS: diagnostic test evaluation, including methods for discrimination and classification; health technology assessment; methods for longitudinal and spatial data; missing data, causal inference and methods for observational data; meta-analysis; Bayesian inference; bioinformatics; statistical methods for genetic data.

EPIDEMIOLOGY & HEALTH SERVICES RESEARCH: social epidemiology; evidence based medicine; health services and outcomes research for the elderly and long-term care populations; gerontology; HIV/AIDS and other infectious diseases; pharmacoeconomics; women's health; violence; disability research; health promotion; alcohol and addiction studies; health organizational behavior.

REQUIREMENTS. Proficiency in theory and methods for biostatistics, epidemiology or health services research; proficiency in an applied subject matter area; one semester of teaching (Ph.D. only); participation in departmental seminar and journal club; interface with other disciplines is encouraged (e.g. sociology, biology, economics, applied mathematics). Traditional ScM and PhD programs available in each track; intensive one-year ScM program in Biostatistics available for students seeking professional careers. For information on MPH degrees, see entry under PUBLIC HEALTH.

Web URL: http://bms.brown.edu/commhealth/dep/ptrg-grd.html

MOLECULAR BIOLOGY, CELL BIOLOGY AND BIOCHEMISTRY

FIELDS OF STUDY. Interdisciplinary, drawing on molecular biology, cell biology, biochemistry, developing biological, genetics, immunology, microbiology and virology; areas of emphasis include nuclear acids, RNA structure, ribosomal function, HIV and retroviruses, environmental mutagenesis, cell receptors, cell division cycles, cell differentiation, site-specific recombinase, biochemical and developmental genetics, gene expression, oncogenes, protein structure, protein folding, cell and organelle ultrastructure, schistosomiasis antigens, plant and plant cell and organelle development, biosynthetic metabolism, biochemistry and cell biology of plants and algae.

REQUIREMENTS. Proficiency in core courses in biochemistry, cell biology and molecular genetics; courses and seminars that develop breadth in areas such as gene structure and expression, signal transduction, virology, bioenergetics, immunology, cancer biology, developmental biology; teaching; two semesters; research seminars and rotations in different laboratories leading to a potential thesis project.

WEB URL: http://www.brown.edu/Departments/Molecular_Biology/Grad_Program

MOLECULAR PHARMACOLOGY AND PHYSIOLOGY

FIELDS OF STUDY. Interdisciplinary, including molecular and structural pharmacology, signal transduction; ion channels and other receptors; visual transduction; drug design; neuropharmacology and neurophysiology; molecular and cellular basis for drug addiction; macromolecular structure; cellular, comparative and organ systems physiology.

REQUIREMENTS. Core courses relevant to molecular pharmacology and physiology, which may include courses in biochemistry, genetics/genomics, molecular biology, animal physiology and neuroscience. Programs of study and research are developed individually by an advisory committee based on educational background in consultation with the student's adviser and designed to ensure expertise in the student's principal field of interest.

WEB URL: http://bms.brown.edu/Biology_Departments/mpmb/hm/tmph.html

NEUROSCIENCE

FIELDS OF STUDY. Interdisciplinary, devoted to neurophysiology, neuropharmacology and neuroanatomy. See the entry under the Department of Neuroscience for more details.

PATHOBIOLOGY

FIELDS OF STUDY. Interdisciplinary, devoted to defining and understanding mechanisms of disease through the application of molecular biological, biochemical, genetic and immunological methodologies. Three major research themes: toxicology and environmental pathology; immunology and infection; cancer biology.

REQUIREMENTS. Core courses in pathology, selected courses in toxicology and environmental pathology; immunology and infection; cancer biology; cell biology or developmental biology, or molecular genetics or biochemistry; first-semester seminar (Introduction to Faculty Research), two laboratory research rotations prior to selection of thesis project, electives drawn from immunology, environmental and genetic toxicology, cancer biology, virology and 100-level and 200-level courses according to interest, seminars, journal clubs and career preparation workshops round out graduate experience. Admission ordinarily limited to applicants for the Ph.D degree.

WEB URL: http://biomed.brown.edu/Biology_Programs/Pathobiology/contents.html

PUBLIC HEALTH
FIELDS OF STUDY. Applied research methods, biostatistics, environmental health, epidemiology, health behaviors, health services, health systems, public health, public health interventions, social constructs of epidemiology.

REQUIREMENTS. Admission to the advanced placement (AP) track is ordinarily limited to applicants who hold doctoral degrees in health-related fields. Admission to the standard/integrated (SI) track requires significant undergraduate or graduate preparation in the biological sciences. Admission to both tracks requires evidence of strong quantitative abilities and skills and a strong commitment to public health.

WEB URL. http://biomed.brown.edu/Medicine_Departments/Com
mhlth/mpf-prg.html

GENERAL

REQUIREMENTS FOR THE AM. Available in certain programs in a program of study approved by the Curriculum Committee and director of that graduate program, or by completion of at least six of eight required graduate courses with a grade of at least B in a program of study approved by the division's associate dean for graduate studies, final project, no thesis.

REQUIREMENTS FOR THE SCM. A written thesis based on original research in one of the graduate programs in the division in a program of study developed in consultation with a program director.

REQUIREMENTS FOR THE MAT IN BIOLOGY. Four courses in education; four courses in the Division of Biology and Medicine; program is administered by the Department of Education which can provide further information.

REQUIREMENTS FOR THE MPH. Eight (AP track) to twelve (SI track) required courses; community service internship, analytic policy internship, thesis.

REQUIREMENTS FOR THE MMSC. Limited to students enrolled in the School of Medicine; individual programs may have additional course requirements; thesis based on original experimental work under the sponsorship of a faculty member of one of the graduate programs; six of the basic science courses usually taken in the first two years of the School of Medicine curriculum; one 200-level graduate course related to the thesis; one thesis research course; courses and research should be planned to allow completion of degree while in the School of Medicine.

REQUIREMENTS FOR THE COMBINED MD-PH.D. Intended to prepare medical students with graduate training in an area related to medicine; application for admission limited to students already enrolled in the Program in Liberal Medical Education, students who are eligible to apply for admission to the School of Medicine, and students who are in their first year in the School of Medicine; admission limited to students admitted formally both to the School of Medicine and to one of the graduate programs in the Division of Biology and Medicine; graduate component of the MD-PH.D program generally begins after successful completion of second year (or, in exceptional cases, after first year) in the School of Medicine and must be completed prior to beginning clinical clerkships; research required during the summers of the first two years in the School of Medicine; students in the MD-Ph.D program receive graduate credit for the equivalent of eight courses (one year of full-time study) for satisfactory completion of the first two years (basic medical sciences) in the Brown School of Medicine or the Brown-Dartmouth Medical School Program; completion of all requirements of the PhD program in which MD-Ph.D students enroll.

REQUIREMENTS FOR THE PH.D. Comprehensive examination; teaching; two semesters (except for students in the combined MD-PhD program); preliminary research examination; dissertation and public defense.

FACILITIES. Animal care facility; artificial organ laboratory; cell sorter and analyzer facility; DNA sequencing facility; electron microscope facility; electrophysiological scanning and recording equipment; four campus research laboratory buildings, greenhouses, HIV-AIDS laboratory; laboratories in affiliated Rhode Island hospitals; microarray genetic/genomic screening facilities; transgenic/knock out mice; molecular modeling laboratory; high-resolution nuclear magnetic resonance (NMR) center; X-ray crystallography center.

ADMISSION. GRE: General and Subject Tests required. MCAT (Medical College Admission Test): may be substituted for GRE by applicants to the MD-PhD program (requires special application, obtained from the Medical School Admission Office, Box G, Brown University, Providence, RI 02912). The division has about 140 graduate students and admits about twenty-five PhD students and three MD-PhD students each year.

FINANCIAL AID. Financial support is generally limited to candidates for the PhD or combined MD-PhD degrees. Some tuition support may be available for applicants for the ScM or AM who are in physician fellowship programs in affiliated hospitals. Admission to study toward the PhD degree is usually accompanied by the award of a fellowship, traineeship or teaching assistantship, although some students may be admitted without financial aid. It is the policy of the division to support on a year-round basis as fellows, assistant, teaching assistants or research assistants, students whose graduates are progressing satisfactorily, provided sufficient funds are available.

POSTAL ADDRESS. Associate Dean for Graduate Studies, Division of Biology and Medicine, Box G, Brown University, Providence, RI 02912

WEB URL. http://BioMed.brown.edu/Biology.html

APPLICATION DEADLINE: OPEN

BIOMEDICAL ENGINEERING

ScM, PhD

INTERDISCIPLINARY PROGRAM


FIELDS OF STUDY.

Biomaterial. Bioadhesive materials for use in oral drug delivery; biodegradable materials for implantable drug delivery systems; orthopedic biomaterials; immunosorative materials, scaffolds, and nerve guidance channels for tissue engineering; electrodes and nanostructures for neural implants; and bioengineered enzymes for medical and non-medical applications.

Organ Replacement & Tissue Engineering. Tissue-engineered heart valves, genetically engineered living skin equivalents; evaluation and characterization of mechanical lip and knee replacements; preclinical development of organometallic interventional disks, development of bioactive synthetic coronary artery replacements; neuronal regeneration; renal replacement.

Neuroengineering. Deep brain stimulation at the preclinical and clinical level; intracranial electrode design and delivery; neuroprosthetics; algorithms for decoding temporal patterns of neuron firing; neuromedical applications of nanotubes; identification and delivery of neuroactive cytokines for nerve cell repair or regeneration.

REQUIREMENTS FOR THE ScM. Completion of all core courses in engineering, biology, and basic science required for Brown's undergraduate biomedical engineering degree; at least five structured advanced-level biology and engineering courses, at least two of which must be in biology and two in engineering.

REQUIREMENTS FOR THE PhD. Completion of all core courses in engineering, biology, and basic science required for Brown's undergraduate biomedical engineering degree; an approved sequence of courses including at least six structured graduate courses, with a minimum of two each in biology and engineering, comprehensive examination, dissertation.

ADMISSION. GRE: General Test required. Interview: recommended.

POSTAL ADDRESS. Tayhas Palmore, Division of Engineering, Box D, Brown University, Providence, RI 02912 Jeffrey Morgan, Division of Biology and Medicine, Biomed Center, Brown University, Providence RI 02912.

E-MAIL ADDRESS. Tayhas_Palmore@brown.edu; Jeffrey_Morgan@brown.edu

WEB URL. http://www.engin.brown.edu/Graduate/BME.htm

APPLICATION DEADLINE: OPEN

BRAIN SCIENCE

ScM, PhD

INTERDISCIPLINARY PROGRAM


FIELDS OF STUDY.

Biomaterial. Bioadhesive materials for use in oral drug delivery; biodegradable materials for implantable drug delivery systems; orthopedic biomaterials; immunosorative materials, scaffolds, and nerve guidance channels for tissue engineering; electrodes and nanostructures for neural implants; and bioengineered enzymes for medical and non-medical applications.

Organ Replacement & Tissue Engineering. Tissue-engineered heart valves, genetically engineered living skin equivalents; evaluation and characterization of mechanical lip and knee replacements; preclinical development of organometallic interventional disks, development of bioactive synthetic coronary artery replacements; neuronal regeneration; renal replacement.

Neuroengineering. Deep brain stimulation at the preclinical and clinical level; intracranial electrode design and delivery; neuroprosthetics; algorithms for decoding temporal patterns of neuron firing; neuromedical applications of nanotubes; identification and delivery of neuroactive cytokines for nerve cell repair or regeneration.

REQUIREMENTS FOR THE ScM. Completion of all core courses in engineering, biology, and basic science required for Brown's undergraduate biomedical engineering degree; at least five structured advanced-level biology and engineering courses, at least two of which must be in biology and two in engineering.

REQUIREMENTS FOR THE PhD. Completion of all core courses in engineering, biology, and basic science required for Brown's undergraduate biomedical engineering degree; an approved sequence of courses including at least six structured graduate courses, with a minimum of two each in biology and engineering, comprehensive examination, dissertation.

ADMISSION. GRE: General Test required. Interview: recommended.

POSTAL ADDRESS. Tayhas Palmore, Division of Engineering, Box D, Brown University, Providence, RI 02912 Jeffrey Morgan, Division of Biology and Medicine, Biomed Center, Brown University, Providence RI 02912.

E-MAIL ADDRESS. Tayhas_Palmore@brown.edu; Jeffrey_Morgan@brown.edu

WEB URL. http://www.engin.brown.edu/Graduate/BME.htm

APPLICATION DEADLINE: OPEN
brain; designed for students whose interests include areas of study outside those of their home department.

**REQUIREMENTS FOR THE SCM.** Eight courses, including core and analytical, approved by the program's training committee; interdisciplinary thesis approved by executive committee of program.

**REQUIREMENTS FOR THE PHD.** Core courses in cellular and molecular neuroscience and integrative neuroscience, one laboratory course in neuroscience or cognitive and linguistic sciences, advanced analytic courses; at least one seminar taught collaboratively by the brain science program faculty; comprehensive examination; teaching; two semesters; written dissertation proposal; dissertation.

**ADMISSION.** GRE: General Test required. Students should apply directly to one of the home departments (e.g., Applied Math, Cognitive and Linguistic Sciences, Computer Science, Engineering, Neuroscience, Physics, or Psychology) with a statement that they are interested in Brain Science.

**POSTAL ADDRESS.** Brain Science Graduate Program, Box 1953, Brown University, Providence, RI 02912

**E-MAIL ADDRESS.** BrainScience@brown.edu

**WEB URL.** http://www.brainscience.brown.edu/

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**CHEMISTRY**

**AM, ScM, PhD**


**FIELDS OF STUDY.** Experimental physical and inorganic chemistry, theoretical chemistry, mechanistic and synthetic organic chemistry, biochemistry and materials science.

**FACILITIES.** The Department of Chemistry occupies a laboratory building which also houses machine and electronics shops staffed by skilled technicians. Special research resources include 300 and 400 MHz NMR spectrometers, two mass spectrometers, an ESR spectrometer, a laser Raman spectrometer, high resolution Fourier transform infrared spectrometers, an automated x-ray diffractometer, a wide range of networked work stations and computers, as well as numerous more specialized research instruments.

**REQUIREMENTS FOR THE SCM.** Thesis.

**REQUIREMENTS FOR THE PHD.** Written cumulative examinations; oral defense of an independent research proposal; teaching; two semesters, dissertation.

**ADMISSION.** GRE: General and Subject Tests required. Interview recommended.

**FINANCIAL AID.** Admission is normally accompanied by the award of a teaching assistantship, although a limited number of fellowships and research assistantships are funded by the award of a teaching assistantship, although a limited number of fellowships and research assistantships are available to beginning students.

**POSTAL ADDRESS.** Department of Chemistry, Box H, Brown University, Providence, RI 02912-9108

**E-MAIL ADDRESS.** Chem_Department@brown.edu

**WEB URL.** http://www.chem.brown.edu/

**APPLICATION DEADLINE:** JAN. 2

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**CLASSICS**

**AM, PhD**


**FIELDS OF STUDY.** Classics covers the range of ancient studies, with strengths in classical literature, ancient history, philosophy, and linguistics. Additional work is available in religious studies, history of science and comparative literature as well as in classical archaeology and art. The program in classics and Sanskrit offers courses in Sanskrit grammar and literature, the history of mathematics, linguistics and religion.

**REQUIREMENTS FOR THE AM.** Minimum of eight courses, including at least two seminars in Greek or Latin or classics; competence in French or German; thesis which shall be an original investigation of some literary, historical, archaeological or linguistic topic.

**REQUIREMENTS FOR THE PHD.** Fourteen graduate courses, including at least four seminars with department faculty, competence in French and German, Latin and Greek prose composition, Greek or Roman history, archaeology, the eight translation of Latin and Greek, and two special authors or one author and one field; teaching; two semesters; candidates in classics and Sanskrit must complete requirements for classics and present four 100-level courses in Sanskrit, a minimum of five seminars, two of which shall be in Sanskrit, and a dissertation topic requiring significant use of material in Sanskrit as well as Greek or Greek and Latin, preliminary written and oral examinations; dissertation.

**ADMISSION.** GRE: General Test required. Writing Sample recommended. Admission is highly selective and based largely on an applicant's academic accomplishments, references, and academic interests. NORMALLY, ONLY STUDENTS AIMING FOR THE PHD ARE ADMITTED.

**FINANCIAL AID.** Students accepted into the PhD programs normally receive financial support for four years.

**POSTAL ADDRESS.** Department of Cognitive & Linguistic Sciences, Box 1978, Brown University, Providence, RI 02912

**E-MAIL ADDRESS.** Cognitive_Science@brown.edu, Linguistic_Science@brown.edu

**WEB URL.** http://www.cog.brown.edu/

**APPLICATION DEADLINE:** JAN. 2

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**COMPARATIVE LITERATURE**

**AM, PhD**


**FIELDS OF STUDY.** Literatures and cultures of Europe and America (principal fields, from antiquity to the present); Arabic, Chinese and Japanese literatures (selected fields); poets and literary history; critical theory; cultural studies; women's studies, philosophy and literature; literary translation. Students are encouraged to work cooperatively with other departments and programs including American civilization, classics, cognitive and linguistic sciences, East Asian studies, English, French studies, Hispanic studies, history, history of art and architecture, modern culture and media, philosophy, Portuguese and Brazilian studies, religious studies and theatre, speech, and dance.

**REQUIREMENTS FOR THE AM.** Either eight courses or two languages and theses; or, eight courses three languages and PhD preliminary examination.
REQUIREMENTS FOR THE PHD. Sixteen courses; three languages, one of which may be the candidate's native language; teaching: four semesters; preliminary examination; professional competence in a major literature and in two others; a comparative project in the third year; dissertation and defense.

ADMISSION. GRE: General Test required; Subject Tests recommended. Writing Sample required (ten to fifteen pages). NORMALLY, ONLY STUDENTS AIMING FOR THE PHD ARE ADMITTED. Applicants must show high proficiency in two languages whose literatures are taught at Brown, and must also be developing competence in a third language. Applicants are expected to have substantial undergraduate training in at least one national literature in addition to English.

POSTAL ADDRESS. Department of Comparative Literature, Box E, Brown University, Providence, RI 02912

E-MAIL ADDRESS. Comp_Lit@brown.edu

WEB URL. http://www.brown.edu/Departments/Comparative_Literature

APPLICATION DEADLINE. JAN. 2

CREATIVE WRITING

MFA


FIELDS OF STUDY. Fiction, Playwriting, Poetry.


REQUIREMENTS FOR THE MFA. Three courses in creative writing workshops, four graduate-level electives; thesis.

ADMISSION. GRE: General Test not required. Writing Sample: required (must be in one genre). THE WRITING SAMPLE IS THE MOST IMPORTANT PART OF THE APPLICATION.

POSTAL ADDRESS. Graduate Program in Creative Writing, Box 1852, Brown University, Providence, RI 02912

WEB URL. http://www.brown.edu/cw

APPLICATION DEADLINE. DEC. 15

DEVELOPMENT STUDIES

AM


FIELDS OF STUDY. Comparative and interdisciplinary study of issues of socio-economic development.

FACILITIES. The program is sponsored by the Watson Institute for International Studies and benefits from the activities of the other programs in the Watson Institute and of various departments such as anthropol- ogy, economics, environmental studies, history, politi- cal science and sociology.

REQUIREMENTS FOR THE AM. Eight courses including DS198, the development studies seminar, AN204, EC151, SO215 and two additional 200-level seminars; language skill as needed for research; thesis.

ADMISSION. GRE: General Test required. Writing Sample: required.

POSTAL ADDRESS. Development Studies, Watson Institute for International Studies, Box 1970, Brown University, Providence, RI 02912

E-MAIL ADDRESS. Louis_Putterman@brown.edu

WEB URL. http://watsoninstitute.org/DS/grad.cfm

APPLICATION DEADLINE. OPEN

ECONOMICS

AM, PhD


FIELDS OF STUDY. Core courses in macro- and microeconomics and econometrics. Advanced courses include monetary and fiscal policy, labor, speculative markets, financial economics, game theory, welfare economics, urban economics, industrial organization, international trade and finance, macro- and micro- econometrics, economic development, political econo- my, analysis of nonmarket institutions. Other topics can be arranged with individual faculty members.

FACILITIES. Comprehensive library and computer resources are available for the use of graduate students. The department maintains its own computer facility next to the graduate student offices. Several personal computers as well as large data bases and access to mainframe computer facilities are available.

REQUIREMENTS FOR THE AM. There is no separate master's degree program. The AM is ordinarily received as part of the PhD program. Requirements include eight basic courses.

REQUIREMENTS FOR THE PHD. Nine basic courses; core exams in theory and econometrics; six advanced courses with grade of ‘B' or better; dissertation.

ADMISSION. GRE: General Test required.

POSTAL ADDRESS. Department of Economics, Box B, Brown University, Providence, RI 02912

E-MAIL ADDRESS. David_Weil@brown.edu

WEB URL. http://www.econ.brown.edu/grad_program.html

APPLICATION DEADLINE. JAN. 15

EDUCATION

MAT (Master of Arts in Teaching)


FIELDS OF STUDY. Elementary education: a collaboration between Brown University and The Wheeler School leading to Rhode Island certification (gr. 1 - 6) with training and experience in urban teaching. The goals of the program are to provide prospective teachers with experiences and an understanding of standards-based teaching and curriculum. These include the elements of balanced literacy instruction, inquiry-based science, and hands-on, problem solving approaches to math. The course work and analysis seminars ground students in reflection and inquiry of learning and teaching with particular emphasis on child development and the social contexts of diverse classroom settings. Secondary education: leading to Rhode Island certification (gr. 7 - 12) in biology/science, English, and social studies/history. The secondary program encourages students to study their discipline broadly and in depth as they prepare themselves to help adolescents appreciate the structure and essential questions that comprise the discipline. The elementary and secondary programs are small, clinically based and closely supervised by clinical professors. Its duration is twelve consecutive months (summer plus academic year).

REQUIREMENTS FOR THE MAT IN ELEMENTARY EDUCATION. Summer Practicum (ED211), Practicum and Seminar in Elementary Education (ED212), Issues and Trends in Education (ED213), Methods and Materials of Math, Science and
EGYPTOLOGY
AM, PhD
FACULTY. Professor L.H. Lesko (Chair). Associate Professors L. Depuydt, Adjunct Professors L. Bell, E. Bovravski, F. Friedman.

FIELDS OF STUDY. All stages of the language, history and culture of ancient Egypt from the earliest periods of human habitation in the Nile Valley to the Islamic conquest.

REQUIREMENTS FOR THE PHD. All courses required for the AM plus all other departmental graduate courses, French and German, written preliminary examination, written and oral comprehensive examinations, dissertation.

ADMISSION. GRE: General Test required. Writing Sample: required (at least one college paper on Egyptology or some area of antiquity). Interview: recommended.

POSTAL ADDRESS. Department of Egyptology, Box 1899, Brown University, Providence, Ri 02912
WEB URL. http://www.brown.edu/Departments/Egyptology
APPLICATION DEADLINE: OPEN

ENGINEERING
ScM, PhD

FIELDS OF STUDY. Bioengineering. Neural network algorithms, development and plasticity of mammalian CNS, application of ultrasound for detection of aggregates in flowing blood, artificial organ design, bioinstrumentation, bio-materials and blood-surface interactions, biomechanics of atherosclerosis, biodegradable structural materials, electronic instrumentation, hardware, locomotion, mathematical modeling of physiological systems, mechanics of soft tissue, neural networks, properties of muscle, single-unit recording from cerebral cortex. Electrical Sciences and Computer Engineering. Bioelectrical engineering, computer architecture and vision, control systems and systems theory, digital signal and image processing, nonlinear optics and propagation, quantum electronics, solid state materials and devices, speech recognition and microphone arrays, VLSI design. Fluid, Thermal and Chemical Processes. Applied kinetics, biomedical fluid mechanics, carbon materials, chemical reaction engineering, combustion and fire research, energy and environmental technology, fluidization, microfluidics and MEMS, turbulence and vortex dynamics, viscoelastic fluid mechanics.

REQUIREMENTS FOR THE SCM. Eight courses including Mathematical Methods of Applied Science (AM205, 206 or their equivalent), thesis and non-thesis option.

REQUIREMENTS FOR THE PHD. Examination, dissertation and oral defense.

ADMISSION. GRE: General and Subject Tests recommended. Interview: recommended.

POSTAL ADDRESS. Division of Engineering, Box D, Brown University, Providence, RI 02912
E-MAIL ADDRESS. Virginia_Novak@brown.edu
WEB URL. http://www.engin.brown.edu
APPLICATION DEADLINE: OPEN
each of the three areas (medieval and early modern cultures; enlightenment and the rise of national literatures; modern and contemporary studies), one course designated as theory intensive, a seminar in the teaching of English literatures and cultures, a series of orientation workshops taken during the first year of graduate studies, two foreign languages, six seminars of teaching, oral qualifying examination, dissertation.

ADMISSION. GRE: General and Subject Tests required. Writing Sample: required.

POSTAL ADDRESS. Department of English, Box 1852, Brown University, Providence, RI 02912

E-MAIL ADDRESS. Jim_Egan@brown.edu

WEB URL. http://www.brown.edu/Departments/English

APPLICATION DEADLINE: JAN. 2

ENVIRONMENTAL STUDIES

AM


FIELDS OF STUDY. Conservation biology, ecosystem analysis, marine science and policy, environmental communication, environmental health, environmental indicators, environmental justice, environmental law, environmental perception, environmental regulation, environmental responsibility in the University, urban environmental issues.

FACILITIES. Urban Environmental Laboratory, MacMillan Hall.

REQUIREMENTS FOR THE AM. One special topics seminar, one course in environmental regulation or in environmental economics, four related additional courses culminating in a two-course thesis.

ADMISSION. GRE: General Test required. Writing Sample: not required.

POSTAL ADDRESS. Center for Environmental Studies, Box 1943, Brown University, Providence, RI 02912.

E-MAIL ADDRESS. Harold_Ward@brown.edu

WEB URL. http://envstudies.brown.edu

APPLICATION DEADLINE: JAN. 2

FRENCH STUDIES

AM, PhD


FIELDS OF STUDY. French and francophone literature in all major genres and periods, current critical theory and approaches, including reader-response theory, feminist and gender studies, cultural studies; French and francophone culture; linguistics and semiotics.

FACILITIES. French House (invited lecturers, films), exchange programs with Ecole Normale Supérieure in Paris and the Universities of Dijon and Lyon, individual access to the computer network in Rochambeau House, extensive library facilities.

REQUIREMENTS FOR THE AM. Strong proficiency in French language, extensive knowledge of French literature; two years of course work and reading knowledge of a foreign language other than French, thesis.

REQUIREMENTS FOR THE PhD. Sixteen courses chosen from departmental seminars and French studies courses at the 100 and 200 levels, departmental tutorials, relevant courses in other departments; required courses: History of the French Language (FR102) and Teaching Methods (FR290), two foreign languages other than French at the intermediate level or, one at an advanced level; teaching two seminars, preliminary examination during third year, dissertation and oral defense.

ADMISSION. GRE: General Test required. Writing Sample: required (in French). French Fluency: required (cassette demonstrating candidate’s oral French is to be provided). With the exception of sample essay, student’s dossier should be presented in English.

POSTAL ADDRESS. Department of French Studies, Box 1961, Brown University, Providence, RI 02912

E-MAIL ADDRESS. French_Studies@brown.edu

WEB URL. http://www.brown.edu/Departments/French/index.html

GEOLOGICAL SCIENCES

AM, ScM, PhD


FIELDS OF STUDY. Research emphasizes integrated observational, theoretical, experimental, and analytical approaches to broad geologic questions. The principal research fields are geochemistry, mineralogy, igneous and metamorphic petrology, geophysics, structural geology, tectonophysics, hydrology, paleoceanography, paleoclimateology, sedimentology, planetary geoscience. Collaborative and interdisciplinary studies are encouraged.

FACILITIES. Analytical: Solid-source and gas isotope ratio mass spectrometers, gas chromatograph-mass spectrometer, accelerated solvent extractors, rotary shaft and axial deformation apparatuses, electron microscope, high-temperature-high pressure experimental apparatuses, CHNS analyzer, particle counter, ground penetrating radar, X-ray fluorescence analysis facility, ion microprobe (owned/operated by consortium of universities), visible to mid IR spectroscopy facility, thin sectioning facilities, major paper, reading knowledge of French.

GRE: General Test required.

APPLICATION DEADLINE: JAN. 15

HISPANIC STUDIES

AM, PhD


FIELDS OF STUDY. Spanish and portuguese literature of all periods, Latin American literature of all periods.

EXCHANGE PROGRAMS. Santiago de Compostela and Salamanca.


REQUIREMENTS FOR THE AM. There is no separate master's degree program. The AM is ordinarily received as a part of the PhD program. Requirements include eight courses beyond the AB, reading knowledge of French, major paper.

REQUIREMENTS FOR THE PhD. Sixteen courses including one course each in philology and language teaching methodologies, major paper, reading knowledge of French, reading knowledge of German or Latin or another Romance Language related to dissertation, teaching, four semesters, preliminary examination, dissertation.

ADMISSION. GRE: General Test recommended. Writing Sample: required (in Spanish, on a Hispanic literary topic, of no more than ten pages, longer samples will NOT be considered). ADMISSION TO THE GRADUATE PROGRAM IS LIMITED TO CANDIDATES FOR THE PHD DEGREE. Some PhD students may elect to take a master's degree as a step toward the PhD.

FINANCIAL AID. First-year fellowship, teaching assistantships subsequently; proctorships, research assistantships, dissertation fellowships and summer support available to qualified advanced graduate students.

POSTAL ADDRESS. Department of Hispanic Studies, Box 1961, Brown University, Providence, RI 02912

E-MAIL ADDRESS. Marie.Roderick@brown.edu

WEB URL. http://www.brown.edu/Departments/Hispanic_Studies

APPLICATION DEADLINE: JAN. 15

HISTORY

AM, PhD

FACULTY. Professors E. Akariti, O. Banting, P. Benedict, M.J. Buhle, H.P. Chudacoff, R. Davis, C. Dean, E. Gorn, C. Formara, A. Gleason, S. Guha, T. Harris, R.S.
within a year of passing the colloquium, dissertation, presentation of work at departmental roundtable discussion and at final meeting with dissertation committee two months prior to submission of dissertation.

ADMISSION: GRE: General Test required. Writing Sample: required.

POSTAL ADDRESS: Department of History and Architecture, Box 1835, Brown University, Providence, RI 02912

WEB URL: http://www.brown.edu/Departments/Art_Architecture

APPLICATION DEADLINE: JAN. 2

HISTORY OF ART AND ARCHITECTURE

AM, PhD


FIELDS OF STUDY. Algebraic geometry, algebraic topology, differential geometry, dynamical systems, functional analysis, geometry with computer graphics, harmonic analysis, number theory, partial differential equations, several complex variables, probability theory, symplectic geometry, topology of manifolds.

PROGRAM OF STUDY. The basis for further study and research is provided by the four two-semester sequences: Real Functions (MA221, 222), Complex Functions (MA225, 226), Algebra (MA231, 232), Topology (MA241, 242) and the one-semester course: Manifolds (MA211). Each student must satisfactorily complete the Manifolds course, the first semester of all four sequences, and the second semester of at least three of the sequences. Well-prepared students may demonstrate their mastery of the material of any of these courses by passing diagnostic examinations, which are given in September of each year. Students with less extensive backgrounds may be advised to take a 100-level course as preparation for one or more of the basic courses. Normally, a student takes most of the basic courses in the first year and takes the remaining ones, plus more advanced courses, in the second year. Among the advanced courses offered by the department are partial differential equations, probability, algebraic geometry, number theory, differential geometry, and various research level topics courses. Prominent scholars are invited to lecture on their recent research at weekly colloquia and seminars. Attention is also called to courses in applied mathematics, computer science, and history of mathematics.

FACILITIES. The library contains one of the finest mathematical collections available anywhere. The department has extensive computing facilities.

REQUIREMENTS FOR THE AM AND SCM. Normally offered only as part of a PhD program.

REQUIREMENTS FOR THE PHD. One foreign language chosen from French, German, and Russian, advancement to candidacy determined in part by qualification in the basic and advanced courses; teaching experience; examination on an advanced topic; expositor talk based on a research paper in that subject; dissertation and oral defense.

ADMISSION. GRE: General and Subject Tests recommended. Interview: not required. This is primarily a PhD program designed to prepare students for a career of basic research and college teaching. Applicants
should have a strong background in undergraduate mathematics. Students with advanced backgrounds will find the program very flexible.

POSTAL ADDRESS. Department of Mathematics, Box 1917, Brown University, Providence, RI 02912
E-MAIL ADDRESS. gradap@math.brown.edu
WEB URL. http://www.math.brown.edu

APPLICATION DEADLINE. JAN 8

MODERN CULTURE AND MEDIA
AM, PhD


FIELDS OF STUDY. The history, theory and critical analysis of modern media (print, photography, film, sound, television, digital media) in relation to various forms of modern culture and its theorization. Work in this department encompases diverse cultural contexts, practices and historical periods that include awareness of modern cultural, textual and/or social theory. Plans of study are individualized. Students may emphasize one or more individual media and/or interrelations among media.

FACILITIES. The Brown Film Archives is a pedagogical and research collection of film and video material in a variety of formats including approximately 800 16mm film prints. The Malcolm Forbes Center for Modern Culture and Media supports a range of activities including public events (for example, film festivals on Portuguese-Lusophone cinema, contemporary French and Francophone cinemas, and Turkish diaspora cinema in Germany) and scholarly conferences (for example, on television and nationality, modernism and modernity, the archaeology of digital multi-media, and Walter Benjamin’s Arcades Project). Collaborative work is possible with the Pembroke Center for Teaching and Research on Women as well as other departments including Africana studies, American civilization, comparative literature, English, and history of art and architecture.

REQUIREMENTS FOR THE AM. No applicants are accepted for the master’s degree. For Ph.D. candidates who enter the program only with an undergraduate degree, the AM is granted upon completion of all doctoral requirements through the qualifying review.

REQUIREMENTS FOR THE PH.D. A minimum of 13 courses including at least one seminar offered by the department in each of the following three areas: Theory (a course in theories of textuality, subjectivity, culture, the social, and/or a specific medium in relation to any of these); Textual Analysis (a course that addresses a single medium or genre conceived as a textual object, a mode of cultural production, or a form); and Historical/Cultural Locations (a course that assists students in understanding how the production, circulation, and reception of media forms operate within and across specific social contexts, periods, geocultural sites, and/or communities). Additional requirements include one foreign language, at least two years of teaching experience while in the program, a qualifying review after 8 courses, an oral preliminary exam after completion of coursework, and a dissertation. The preliminary exam will be in three areas: the history and theory of a medium, an area of modern cultural theory, and an elective field.

ADMISSION. GRE: General Test required. Writing Sample: required.

POSTAL ADDRESS. Department of Modern Culture and Media, Box 1957, Brown University, Providence RI 02912
E-MAIL ADDRESS. Philip_Rosen@brown.edu
WEB URL. http://www.brown.edu/Departments/MCM
APPLICATION DEADLINE. DEC 15

MUSIC
AM, PhD


REQUIREMENTS FOR THE AM. Ethnomusicology: Eight courses, including AN220, MU222, one course from MU126 - MU129, one course credit or equivalent in music performance, reading knowledge of one foreign language, one major research paper (normally based on fieldwork). Computer Music and Multimedia Composition: eight courses selected in consultation with advisor, expertise in one programming language, thesis in the form of an audio CD, an electronic performance, a work for DVD, an internet production, or an article/article installation.

REQUIREMENTS FOR THE PH.D. (Ethnomusicology): All courses required for the AM, MU221, MU225 or MU226, one from MU227 - MU229, a second foreign language which may be a field language, written and oral comprehensive examinations, dissertation.


POSTAL ADDRESS. Prof. J. Taton, Department of Music, Box 1924, Brown University, Providence, RI 02912
E-MAIL ADDRESS. Music@brown.edu
WEB URL. http://www.brown.edu/Departments/Music
APPLICATION DEADLINE. JAN 2

NEUROSCIENCE
PhD


FIELDS OF STUDY. Neural modeling, sensory systems; motor systems; synaptic plasticity; neural development, learning and memory, cellular neurophysiology; neuro-psychopharmacology; neural regeneration; ion channels and neurotransmitter receptors; molecular neurobiology, cognitive neuroscience, theoretical and computational neuroscience.

FACILITIES. Laboratories equipped for all modern neuroscientic methods including extracellular, intracellular and patch electrophysiological recording, histochemistry, high performance liquid chromatography, electrophoresis, autoradiography, calcium imaging, visual psychophysics, behavioral measurements, computer modeling, behavioral neurophysiology, functional MRI.

REQUIREMENTS FOR THE PH.D. Proficiency in subject matter of core neuroscience courses; participation in weekly seminar series; comprehensive examination; preliminary examination; dissertation.

ADMISSION. GRE: General Test required, Subject Test recommended.

POSTAL ADDRESS. Neuroscience Graduate Program, Box 1953, Brown University, Providence, RI 02912.
E-MAIL ADDRESS. Neuroscience@brown.edu
WEB URL. http://www.brown.edu/Departments/Neuroscience
APPLICATION DEADLINE. JAN 2

OLD WORLD ARCHAEOLOGY AND ART
AM, PhD

FACULTY. Professors R.R. Holloway, M.S. Joukowsky (Director), R.M. Winkles. Visiting Assistant Professor K.M. Galor. Affiliated faculty in classics, Egyptology, history of art and architecture, history of mathematics, religious studies.

FIELDS OF STUDY. Classical archaeology and related prehistory; archaeology of the ancient Near East; archaeology of the Holy Land.

FACILITIES. Outstanding University library in the field; work space in Center with photographic collection, reference library, computer; proximity to major museums on the east coast; several exchange programs that provide contact with scholars internationally; effort made to involve students in excavations.

REQUIREMENTS FOR AM. Eight courses including at least two seminars; thesis. The master’s degree is normally offered only as part of a PhD program. Candidates are admitted to study for the AM degree only in exceptional circumstances and without financial aid.

REQUIREMENTS FOR PH.D. Twelve courses including at least four seminars; proficiency in one ancient language (Greek, Hebrew, Latin or other) and two modern languages (German and one Romance language) required before qualifying examinations; ancient Greek or Roman history; archaeological fieldwork; three qualifying exams before the end of the third year; dissertation and oral defense.

ADMISSION. GRE: General Test required.

FINANCIAL A ID. Fellowships, teaching assistantships, proctorships, dissertation fellowships.

POSTAL ADDRESS. Center for Old World Archaeology and Art, Box 1837, Brown University, Providence, RI 02912.
E-MAIL ADDRESS. COWAA@brown.edu
WEB URL: http://www.brown.edu/Departments/Old_World_Archaeology_and_Art

APPLICATION DEADLINE: OPEN

PHILOSOPHY

AM, PhD

FACULTY. Professors F. Ackerman, D. Eastlund (Acting Chair) M.L. Gill, C. Hill, J. Kim, E. Sousa (Graduate Representative), J. Van Cleve. Associate Professors J. Broackes, J. Dreier, B. Register. Assistant Professor B. Weatherston.

FIELDS OF STUDY. Epistemology and metaphysics (including philosophy of mind); ethics (including applied ethics, metaethics and normative ethics); history of philosophy (including the ancient, modern, 19th century and 20th century periods); philosophical logic; philosophy of language; philosophy in literature; philosophy of law; political philosophy.

REQUIREMENTS FOR THE AM. Eight courses and a thesis or completion of the preliminary requirements for the PhD.

REQUIREMENTS FOR THE PHD. Sixteen courses including at least ten seminars; advancement to candidacy (based on qualification review of course work completed during the first three semesters, satisfactory completion of course and distribution requirements, approval of a dissertation project); dissertation and oral defense.

ADMISSION. GRE: General Test required. Writing Sample: required.

POSTAL ADDRESS. Department of Philosophy, Box 1918, Brown University, Providence, RI 02912
E-MAIL ADDRESS. philos@brownvm.brown.edu
WEB URL. http://www.brown.edu/Departments/Philosophy/main.html

APPLICATION DEADLINE: JAN 2

PHYSICS

ScM, PhD


FIELDS OF STUDY. Experimental physics: astrophysics, atomic physics, biological physics, colloidal physics, condensed matter physics, cosmology, elementary particle physics, lasers, low temperatures, nano-structure physics. Theoretical physics: condensed matter physics, cosmology, elementary particle physics, general relativity and gravitation, neural studies, nuclear physics, statistical physics. Research in related areas under the supervision of faculty members in other departments may be carried out with the permission of the department (e.g., applied mathematics, engineering, chemistry, neuroscience).

REQUIREMENTS FOR THE SCM. Eight courses from the core group: Techniques in Experimental Physics (PH201), Classical Theoretical Physics (PH203, 204), Quantum Mechanics (PH205, 206), Statistical Mechanics (PH214), and at least two level 200 courses. Up to two research courses, courses from outside the department or 100-level courses might be substituted with permission of the department.

REQUIREMENTS FOR THE PHD. All core courses, four advanced courses, qualifying examination, preliminary examination, research under the supervision of a faculty member, dissertation and oral defense.

ADMISSION. GRE: General and Subject Tests required.

POSTAL ADDRESS. Department of Physics, Box 1843, Brown University, Providence, RI 02912
E-MAIL ADDRESS. info@physics.brown.edu
WEB URL. http://www.physics.brown.edu

APPLICATION DEADLINE: OPEN

POLITICAL SCIENCE

AM, PhD


FIELDS OF STUDY. American politics, comparative politics, international relations, political theory, political behavior.

FACILITIES. Prospect House, John Hazen White, Sr. Public Opinion Laboratory, A. Alfred Taubman Center for Public Policy and American Institutions, Thomas J. Watson, Jr. Institute for International Studies, Blinken House.

REQUIREMENTS FOR THE AM. Eight 200-level courses, including two research seminars requiring substantial written work, completed with a grade of B or better.

REQUIREMENTS FOR THE PHD. Twelve courses (at least ten from within the department, two may be taken from a related discipline), including PS250, PS259, PS287, PS288, and two of the four field seminars, all completed with a grade of B or better, modern foreign language, if appropriate for the dissertation; written and oral preliminary examinations: teaching: eight semesters, written and oral presentation of dissertation proposal, dissertation and oral defense.

ADMISSION. GRE: General Test required. Writing Sample: required.

POSTAL ADDRESS. Department of Political Science, Box 1844, Brown University, Providence, RI 02912
E-MAIL ADDRESS. Marion_Orr@brown.edu
WEB URL. http://www.brown.edu/Departments/Political_Science

APPLICATION DEADLINE: FEB 1

PORTUGUESE AND BRAZILIAN STUDIES

AM, PhD


FIELDS OF STUDY. Portuguese (including Azorean) and Brazilian Literature and Language: Brazilian and Portuguese history, Luso-Brazilian intellectual history, race relations, language, bilingual and ESL cross-cultural education.


REQUIREMENTS FOR THE AM IN PORTUGUESE STUDIES OR IN BRAZILIAN STUDIES. Eight courses (at least three courses in Portuguese literature, history and/or culture and three courses in Brazilian, history and/or culture [four of these must be conducted in Portuguese]), concentration seminar, Portuguese language proficiency examination, final project.

REQUIREMENTS FOR THE AM IN BILINGUAL/ESL AND CROSS-CULTURAL STUDIES. Eight courses, including six in theory and methodology, final project.

REQUIREMENTS FOR THE PHD. Sixteen courses including those presented for the AM, at least six of which must be in language and literature, reading ability in a second foreign language, general and preliminary examinations (two written exams and a public colloquium), dissertation.

ADMISSION. GRE: General Test required (for PhD applicants).

POSTAL ADDRESS. Department of Portuguese and Brazilian Studies, Box O, Brown University, Providence, RI 02912
VOICE. 401-863-3042
FAX. 401-863-7261
E-MAIL ADDRESS. Armanda_Silva@brown.edu
WEB URL. http://www.brown.edu/Departments/Portuguese_Brazilian_Studies

APPLICATION DEADLINE: JAN 2

PSYCHOLOGY

AM, ScM, PhD


FIELDS OF STUDY. Behavioral neuroscience, sensory and perceptual processes, learning and cognition, social psychology.

FACILITIES. Hunter Laboratory is well-equipped for research using either animal or human subjects.

REQUIREMENTS FOR THE AM AND ScM. Eight courses approved the Director of Graduate Studies and the student’s advisor; thesis and oral defense. Admission to the graduate program is limited to candidates for the PhD degree. Some students also elect to take a master's degree as a step toward the PhD.

REQUIREMENTS FOR THE PHD. One core course in at least three of four areas: neural bases of behavior, sensory and perceptual processes, learning and cognition, and social psychology, at least two courses in cognitive neuroscience.

WEB URL. http://www.brown.edu/Departments/Neuroscience

APPLICATION DEADLINE: JAN 12
SLAVIC LANGUAGES
Applications for admission to the graduate program in Slavic Languages and Literatures are not being accepted for the 2003-2004 academic year while proposed alternatives are under review. Interested candidates may contact the Department of Comparative Literature.

SOCIOLOGY
AM, PhD

FIELDS OF STUDY. In addition to the core areas of theory, research methods, and statistics, the faculty have expertise in three broad areas within sociology. The social demography group examines families and children, migration, urbanization and international population issues. The health group's research extends from individual health experiences to organizations and systems of care. The macroeconomics group takes up issues of economic development, states and social institutions, and comparative organizations. Special emphasis is placed on the application of comparative-historical analyses, quantitative empirical research, and qualitative methods.

FACILITIES. Population Studies and Training Center affiliated with the department, demography library, Social Science Research Laboratory (SSRL), containing state of the art facilities for data analysis and research support, consultants, close ties with Center for Comparative Study of Development, Center for Gerontology and Health Care Research, Taubman Center for Public Policy, and Watson Institute for International Studies.

REQUIREMENTS FOR THE AM. Eight courses including Theory of Religion (RS200), competence in French or German, proficiency in Hebrew, thesis.

REQUIREMENTS FOR THE PHD. Theory of Religion (RS200), qualifying examinations, Greek and Latin, more languages, especially Syriac, Coptic, and Aramaic, for particular specializations, French and German, one year of teaching experience, preliminary examination, dissertation and oral defense.

Ancient Judaism: Theory of Religion (RS200), proficiency in Aramaic and Hebrew, competence in Greek, Latin, French and German, one year of teaching experience, preliminary examination, dissertation and oral defense.

Contemporary Religious Thought: Theory of Religion (RS200), French or German, thesis.

REQUIREMENTS FOR THE PHD. Early Christianity: Theory of Religion (RS200), qualifying examinations, Greek and Latin, further languages, especially Syriac, Coptic and Aramaic, for particular specializations, French and German, one year of teaching experience, preliminary examination, dissertation and oral defense.

Ancient Judaism: Theory of Religion (RS200), proficiency in Aramaic and Hebrew, competence in Greek, Latin, French and German, one year of teaching experience, preliminary examination, dissertation and oral defense.

Contemporary Religious Thought: Theory of Religion (RS200), French or German, one year of teaching experience, preliminary examination, dissertation and oral defense.

ADMISSION. GRE: General Test required. Students are admitted to the PhD program from undergraduate and from master's degree programs. Students holding a Master of Divinity degree or its equivalent are not admitted to the AM program.

FINANCIAL AID. PhD students normally receive fellowships in their first year. In subsequent years, students serve as teaching assistants or research proctors. Fellowships are often awarded during the dissertation year.

ADMISSION. GRE: General Test required. Students are admitted to the PhD program from undergraduate and from master's degree programs. Students holding a Master of Divinity degree or its equivalent are not admitted to the AM program.

FINANCIAL AID. PhD students normally receive fellowships in their first year. In subsequent years, students serve as teaching assistants or research proctors. Fellowships are often awarded during the dissertation year.

THEATRE STUDIES
AM, MFA, PhD


FIELDS OF STUDY. Theatre history, performance studies, criticism/theory, dramatic literature and performance integrated into a consortial arrangement with Trinity Repertory Company, acting (MFA only through TRC), directing (MFA only through TRC). Specialties include non-Western performance, lyric theatre, popular entertainment, gender and performance, performance art, intercultural performance, avant-garde theatre, performance ethnography, Middle Eastern performance, dramaturgy, American theatre, Russian and Soviet theatre, Afro-American and Africana theatre, Shakespeare and Renaissance studies, Greek and Roman drama, theatre and neuroscience, and mise-en-scene in theatre and film.

FACILITIES. Brown's special collections: Harris Collection of American Drama, the Sidney Alben Shaw Collection, The Smith Magicana Collection, four theaters, dance studio, departmental library, Harvard Theatre Collection, resources throughout New England and in New York City easily accessible. Downtown Providence theatre spaces for MFA programs.

REQUIREMENTS FOR THE AM. Minimum of eight courses in residence, including six in theater study and dramatic literature, two graduate seminars, regularly scheduled non-credit graduate colloquium, thesis, or, a ten-course, non-thesis program.

REQUIREMENTS FOR THE MFA. For a complete description of the MFA program, please see the online description at:

http://www.brown.edu/Departments/Theatre_Speech_Dance/MFA_Programs.html

REQUIREMENTS FOR THE PHD. Eight courses in residence beyond the courses required for the AM or their equivalent transferred from other degree-granting institutions. Two of these courses may be independent studies. Required courses include three graduate seminars, a performance practicum, regularly scheduled non-credit graduate colloquium, a three-course theatre history sequence, a dramatic and theatrical theory seminar, and electives in theatre history, literature and theory, reading knowledge of two foreign languages tested through course work or exam or, one language taken to the level of research proficiency, comprehensive exams (three written and oral exams taken at end of course work based on reading list prepared by department and augmented by student to reflect special areas of scholarly interest), dissertation.

ADMISSION. GRE: General Test required. Interview recommended. Previous degree: required (bachelor's or equivalent). POSTAL ADDRESS: Department of Theatre, Speech and Dance, Box 1897, Brown University, Providence, RI 02912 E-MAIL ADDRESS: Rebecca_Schneider@brown.edu WEB URL: http://www.brown.edu/Departments/Theatre_Speech_Dance

APPLICATION DEADLINE: JAN. 15

APPLICATION FOR TRC PROGRAM: JAN. 9