

**D**ear College of Arts & Sciences First-Year Student,

Welcome to Boston University's College of Arts & Sciences! As a CAS student, your first official act will be to register for your first-semester courses. The process is not a complicated one and every effort has been made to assist you.

This booklet will guide you through the registration process and the first weeks of school. As a college student, you now bear a great deal of responsibility for your own education. Please make a good start by reading this booklet carefully and following its instructions. Careful attention to all aspects of course selection and registration will help ensure that your first year of college will be a rewarding experience.

During our Academic Orientation programs, you will have an opportunity to work with an advisor specially selected to help you choose your courses. The advisor-student relationship is key to shaping an educational program that matches your interests and Boston University's rich academic resources. The more familiar you make yourself with the information in this guide, the better prepared you will be to meet with your advisor and get the answers to your questions.

Best Wishes,

A handwritten signature in black ink that reads "Steven Jarvi". The signature is written in a cursive style with a large, sweeping flourish at the end of the name.

Steven Jarvi  
Associate Dean for  
Student Academic Life

## TABLE OF CONTENTS

<b>I.</b>	<b>HOW TO REGISTER FOR YOUR FIRST SEMESTER</b> _____	<b>1</b>
<b>II.</b>	<b>DEGREE REQUIREMENTS: THE COLLEGE PROGRAM</b> _____	<b>2</b>
	Major _____ 2      Minor _____ 8	
	General Education Requirement _____ 2      Residence Requirement _____ 8	
	Core Curriculum _____ 2      Seven-Year Rule _____ 8	
	Divisional Studies _____ 4      Satisfactory Record	
	Writing Requirement _____ 5      Requirement _____ 8	
	Foreign Language Requirement _____ 6      Course Load _____ 8	
	Mathematics Requirement _____ 7      Physical Education Courses _____ 9	
	Electives _____ 7	
<b>III.</b>	<b>SPECIAL PROGRAMS</b> _____	<b>9</b>
	Premedical and Health Science Programs _____ 9      Boston University Dual	
	Seven-Year Medical and      Degree Program _____ 11	
	Dental Programs _____ 10      Independent Major _____ 11	
	Modular Medical Integrated Curriculum	
	(MMEDIC) _____ 10      Combined BA/MA Program _____ 11	
	Combined BA/MPH Program _____ 10      Study Abroad _____ 12	
	Prelaw _____ 10      Undergraduate Research	
	Opportunities Program	
	(UROP) _____ 13	
<b>IV.</b>	<b>ACADEMIC ADVISING</b> _____	<b>14</b>
	Preparing for Your First Advising Appointment _____ 14	
<b>V.</b>	<b>REGISTRATION OPTIONS, STEP BY STEP</b> _____	<b>15</b>
	Three Options for Registration _____ 15      Placement Tests _____ 6, 16	
	University Orientation _____ 15      Chemistry _____ 16	
	Phone-in Registration _____ 15      Language _____ 6, 16	
	School Opening _____ 15      Writing _____ 16	
	Course Adjustment _____ 17      Mathematics _____ 16	
	Course Confirmation _____ 17      Music _____ 16	
<b>VI.</b>	<b>DEPARTMENTS, MAJORS, MINORS, AND COURSES</b> _____	<b>18</b>
	African Studies _____ 18      International Relations	
	African American Studies _____ 19      and Area Studies _____ 43	
	American & New England Studies _____ 19      Judaic Studies _____ 45	
	Anthropology _____ 19      Marine Science _____ 45	
	Archaeology _____ 20      Mathematics & Statistics _____ 45	
	Astronomy _____ 22      Modern Languages & Comparative	
	Biochemistry & Molecular Biology _____ 23      Literature _____ 48	
	Biology _____ 24      Music _____ 56	
	Chemistry _____ 25      Muslim Studies _____ 57	
	Classical Studies _____ 28      Neuroscience _____ 57	
	Computer Science _____ 30      Philosophy _____ 58	
	Earth Sciences _____ 31      Physics _____ 59	
	Economics _____ 32      Political Science _____ 60	
	English _____ 34      Psychology _____ 61	
	Environmental Analysis & Policy _____ 36      Religion _____ 62	
	Environmental Science _____ 37      Romance Studies _____ 63	
	Geography & Environment _____ 38      Sociology _____ 68	
	History _____ 39      Women's, Gender,	
	History of Art & Architecture _____ 41      & Sexuality Studies _____ 69	
<b>VII.</b>	<b>INDEX</b> _____	<b>71</b>

## I. How to Register for Your First Semester

You may register for your first-semester courses by participating in a University Orientation program or by using Phone-in and Email Registration.

### University Orientation:

Seven two-day sessions are scheduled during June and July. Students, often with their families, come to the University for these orientation sessions where the primary focus is on academics. There are also planned social activities designed to familiarize students with the campus, and informational programs for families as well as students. During these sessions students meet with advisors, take necessary placement tests, register for courses, and receive a confirmed course schedule. Information regarding Orientation dates and registration can be found online at [www.bu.edu/orientation](http://www.bu.edu/orientation). Please contact the Orientation office at 617-353-3555 if you have difficulty accessing information.

*Note:* It is important that you complete the online registration form as soon as possible even if you are unable to attend the required orientation program.

International students should plan on attending the University's Orientation for Undergraduate International Students, which extends from Wednesday, August 31 through Saturday, September 3, 2011, and includes an academic orientation session.

### Phone-in Registration:

Students who are unable to attend the June or July Orientations may complete their registrations by phone and email until Friday, August 19. Please contact the Taylor Academic Advising Center at 617-353-2400 or [cas105@bu.edu](mailto:cas105@bu.edu) for more information about Phone-in Registration. Students who register by phone must then attend the two-day Orientation session held during school opening, August 31–September 3, 2011.

### On-Site Registration during School Opening:

Students who are unable to attend Orientation and who do not meet the August 19 deadline for Phone-in Registration may register when they arrive on campus before classes begin. A mandatory registration workshop for these students will be held during the final two-day Orientation session. If you are unable to attend one of the seven two-day Orientation sessions in June and July, please contact the Orientation office immediately at 617-353-3555. **Classes begin on Tuesday, September 6, 2011.**

Whichever method of registration you choose, you will be required to consult with an advisor. This *Guide* outlines the basic requirements for all students in the College of Arts & Sciences (CAS) and lists those courses most appropriate for CAS first-year students. Read it carefully in preparation for your first advising appointment. Make your advisor aware of your academic strengths and interests. It is most important that you inform your advisor of your Advanced Placement (AP) scores, SAT verbal and mathematics scores, SAT foreign language subject test scores, and any other matters that you think might affect your program. Do not hesitate to ask questions. Advisors will help you to understand the CAS program and register for courses.

## II. Degree Requirements: The College Program

In order to graduate from the College of Arts & Sciences (CAS), students must satisfy the following requirements:

- **Major:** The in-depth study of a single area of knowledge;
- **General Education Requirement:** Introduction to the methods of inquiry in the humanities, social sciences, natural sciences, and mathematics/computer science, through the Core Curriculum or Divisional Studies;
- **Languages and Mathematics:** Literacy in English writing and in a foreign language as well as competence in mathematics;
- **Electives:** Courses elected by a student that are not used to fulfill the above requirements;
- **Residence Requirement:** An upperclassman must complete three semesters (at least 12 courses) as a full-time student during the junior and senior years;
- **Seven-Year Rule:** No credit offered toward the degree may be more than seven years old;
- **Requirement for Satisfactory Record:** A GPA (cumulative grade point average) of at least 2.00 in all academic coursework is required for graduation. A student must also maintain a minimum GPA of 2.00 to remain in good academic standing in the College.

Candidates for a degree from CAS must complete a total of 32 courses (normally 128 credits). Physical Education (PDP) and Military Science (ROTC) courses do not count toward the 32 courses or 128 credits required for graduation.

These requirements are summarized in the following pages and are described in detail in the CAS Bulletin. The 2011/2012 Bulletin will be available online in September at [www.bu.edu/academics/cas](http://www.bu.edu/academics/cas). You should familiarize yourself with this important publication.

### Major

As a student in the College of Arts & Sciences you must achieve competence in at least one field of knowledge by completing the number and sequence of courses prescribed by the academic department in which you choose to concentrate your studies. All students must choose their major by the end of their sophomore year.

### General Education Requirement

Each student in the College of Arts & Sciences is required to take a selection of courses that ensures a broad understanding of the four divisions of the liberal arts. This general education requirement can be fulfilled in two different ways: Core Curriculum or Divisional Studies.

### Core Curriculum

You may choose to enroll in the College's innovative Core Curriculum. The Core consists of eight courses that provide an integrated overview of classic works in the humanities, the central social forces shaping the contemporary world, and the foundations of modern science. Focused on small seminars and supplemented by a lecture series, the Core provides a coherent and exciting way to complete the general education requirement at the College of Arts & Sciences.

*Note:* Students who complete the entire first-year Natural Sciences sequence of the Core Curriculum (CC 105/106) satisfy the College of Arts & Sciences laboratory requirement in the natural sciences. Students who complete only CC 105 (or CC 106) will receive *non-lab* natural science credit for this course, but may not use it to satisfy the laboratory requirement.

Students who complete the entire first-year Humanities sequence of the Core Curriculum (CC 101/102) satisfy the first semester (WR 100) of the CAS writing requirement. The second semester (WR 150) of the writing requirement is satisfied by completion of an entire second-year Core sequence, in Humanities (CC 201/202) or Social Sciences (CC 203/204).

The schedule of Core Curriculum courses is as follows:

### Freshman Year

Semester I:

CAS CC 101: Core Humanities I: The Ancient World  
CAS CC 105: Core Natural Sciences I: Evolution of the Universe and the Earth

Semester II:

CAS CC 102: Core Humanities II: Antiquity and the Medieval World  
CAS CC 106: Core Natural Sciences II: Biodiversity: Causes and Consequences

### Sophomore Year

Semester I:

CAS CC 201: Core Humanities III: The Renaissance  
CAS CC 203: Core Social Sciences I: Foundations of the Social Sciences

Semester II:

CAS CC 202: Core Humanities IV: From the Enlightenment to Modernity  
CAS CC 204: Core Social Sciences II: The Problem of Inequality

Enrollment in the Core Curriculum is limited; you should have received a brochure describing the program. If you decide to participate in the program, you will register for Core Humanities I and Core Natural Sciences I in your first semester. A Core Curriculum advisor will help you to choose your remaining courses. If you have questions about the Core Curriculum, please call 617-353-5404 for further information.

**CAS CC 101 Core Humanities I: The Ancient World.** Begins in the ancient Near East with the origins of Mesopotamian civilization and the Hebrew Bible. Continues with an overview of Greek civilization and careful study of Homer, Greek tragedy, Thucydides, and Plato. Includes study of the art and architecture of ancient Mesopotamia and Greece.

**CAS CC 105 Core Natural Sciences I: Evolution of the Universe and the Earth.** Traces the evolution of the physical universe and our scientific understanding of it. Special classes are devoted to dialogue among professors in the sciences, philosophy, and theology. Topics include Big Bang theory, evolution of the stars, laws of the physical universe, evolution of the earth, and planetary ecology. Laboratory work includes night labs in the observatory.

## Divisional Studies

Students who do not choose the Core Curriculum will satisfy the traditional Divisional Studies requirement. The curriculum is divided into four divisions: Humanities, Social Sciences, Natural Sciences, and Mathematics & Computer Science. To ensure that your program has sufficient breadth, the College requires that you take a total of at least six courses designated as Divisional Studies courses outside the division of your major, with at least two courses in each of the three outside divisions. If your major falls into the humanities, social sciences, or mathematics & computer science division, one of your Divisional Studies courses in the natural sciences must have a laboratory component.

*Note:* You may not use courses from the department of your major to meet this requirement. Nor may you use courses from a single department as Divisional Studies courses in more than one division.

The Divisional Studies option will introduce you to a variety of disciplines and methods of obtaining knowledge. Courses used to fulfill this requirement must be chosen either from the following “short list” or from the “expanded list” described below; no other courses may be used. Courses on the divisional studies “short list” are typically offered at least once a year; many are offered every semester:

### Humanities Division

Archaeology (CAS AR 100, 230, 232)  
Classical Studies (CAS CL 101, 102, 202, 206, 213, 216, 221, 222, 224, 325)  
English (CAS EN 121, 125, 127, 128, 130, 141, 142, 143, 163, 164, 175)  
History of Art & Architecture (CAS AH 111, 112, 205, 215, 220, 225, 284)  
Modern Languages & Comparative Literature (CAS XL 222, 223, 224, 225; LC 250, 251, 285; LG 250, 280, 282, 283, 287; LH 250, 282; LJ 250, 251; LK 283; LR 250, 280, 281, 282, 285; LT 281; LY 284; LZ 280, 281)  
Music (CAS MU 117, 118, 229, 242)  
Philosophy (CAS PH 100, 110, 150, 155, 159, 160)  
Religion (CAS RN 100, 101, 102, 103, 104, 201, 202, 206)  
Romance Studies (CAS LF 350, 351; LI 250, 350, 351, 352; LS 350; LX 240, 245, 250, 340)  
Women’s, Gender, & Sexuality Studies (CAS WS 114) See note on WS 101/102 on page 5.

### Mathematics & Computer Science Division

Computer Science (CAS CS 101, 103, 105, 107, 108, 109, 111, 112)  
Mathematics (CAS MA 109, 113, 115, 116, 120, 121, 122, 123, 124, 127, 129, 213, 214)

### Natural Sciences Division (\*indicates a laboratory component)

Anthropology (CAS AN 102\*, 263)  
Astronomy (CAS AS 100, 101\*, 102\*, 105, 109, 117, 202\*, 203\*)  
Biology (CAS BI 105\*, 106\*, 107\*, 108\*, 111, 114\*, 117, 118\*, 119)  
Chemistry (CAS CH 101\*, 102\*, 109\*, 110\*, 111\*, 112\*, 131\*, 171\*, 172\*)  
Earth Sciences (CAS ES 101\*, 105\*, 140, 142, 144)  
Geography & Environment (CAS GE 101\*, 104\*, 110\*)  
Physics (CAS PY 100, 103\*, 105\*, 106\*, 211\*, 212\*, 231\*, 241\*, 242\*, 251\*, 252\*)  
Women’s, Gender, & Sexuality Studies (See note on WS 101/102 on page 5.)

## Social Sciences Division

Anthropology (CAS AN 101, 240, 252, 260, 290, 351)  
Archaeology (CAS AR 101, 205)  
Economics (CAS EC 101, 102, 111, 112, 171)  
Geography & Environment (CAS GE 100, 103, 150, 201, 250)  
History (CAS HI 101, 102, 151, 152, 176, 341, 347)  
International Relations (CAS IR 230, 242, 271, 374)  
Political Science (CAS PO 211, 241, 251, 271, 291)  
Psychology (CAS PS 101, 222, 231, 234, 241, 251, 261)  
Sociology (CAS SO 100, 205, 207, 215, 225, 242, 244)  
Women’s, Gender, & Sexuality Studies (CAS WS 113) See note on WS 101/102 below.

*Note:* Students who complete both halves of the two-semester sequence WS 101/102 receive divisional studies credit for two courses, from two different divisions: Natural Science (without lab), Social Science, and/or Humanities. Neither WS 101 nor WS 102 alone carries divisional studies credit.

Expanded divisional lists: Some CAS departments have expanded lists of courses that may be taken for divisional studies credit by interested students who have completed all necessary pre-requisites. Courses on the expanded lists are typically more advanced or less frequently offered than those listed directly above. See department sections for notes about the expanded lists, and consult your advisor about best matches for your current interests and preparation. Only courses on the short list or expanded list may be used to fulfill the divisional studies requirement.

## Writing Requirement

Students entering the College of Arts & Sciences are typically required to complete a full year of instruction in writing. The standard way of meeting this requirement is through the Writing Program’s two-semester sequence of topic-based writing seminars, WR 100 (Writing Seminar) and WR 150 (Writing & Research Seminar). While topics vary widely, all WR 100 and WR 150 seminars share core goals. In WR 100, you will develop your ability to craft substantive and balanced arguments, to write clear and compelling prose, to read with comprehension and critical discernment, and to converse about complex ideas with thoughtfulness and care. In WR 150, you will further hone your skills while learning to conduct college-level research. You will have the opportunity to choose seminars on topics of interest to you. Some students select seminars related to their prospective majors; others opt for seminars that will introduce them to new fields of study.

The writing requirement may also be satisfied through the CAS Core Curriculum and through various departmental courses. Students who complete CC 101/102 (first-year Core Humanities) satisfy the WR 100 requirement. Students who complete CC 201/202 (second-year Core Humanities) or CC 203/204 (second-year Core Social Sciences) satisfy the WR 150 requirement.

Among departmental courses, CAS EN 120 or HI 100 meets the WR 100 requirement, and EN 220 or HI 150 meets the WR 150 requirement. CH 111 and 112 together satisfy the WR 150 requirement; students who take CH 111 and CH 112 are still expected to take WR 100. In any given semester, other departmental courses may also satisfy these requirements.

The Writing Program is committed to ensuring that all students receive appropriate instruction and support. Students whose primary language is English will be placed in WR 100. Some of these students may also be required to attend tutoring sessions through the Writing Program’s Writing Center.

CAS WR 097 English Grammar and Composition and WR 098 Introduction to College Reading and Writing in English are reserved for ESL students. Students who were required to submit TOEFL scores or other proof of English language proficiency as part of their applications for admission will be placed into WR 097, WR 098, or WR 100 based on their performance on a placement test administered during Orientation. Students who take WR 097 in their first semester are required to complete WR 098 before advancing to the WR 100/150 sequence. Some students in WR 097 and WR 098 may additionally be required to take Individual Intensive Tutoring. Any student who is not required to take this placement test but whose primary language is not English may request a placement assessment from the Writing Program by emailing [writing@bu.edu](mailto:writing@bu.edu).

### **Foreign Language Requirement**

The College of Arts & Sciences requires that all of its graduates achieve competence in at least one language other than English. You may satisfy this requirement in several different ways:

1. By completing a fourth-semester course in a language other than English. Some students may need only one or two semesters of a foreign language to meet this requirement as a result of prior study of a particular language. However, other students may need to begin with the first semester of a language and complete the three following semesters. As a CAS student you may study the following languages to meet this requirement: Amharic, Arabic, Chinese, French, German, Ancient Greek, Modern Greek, Hausa, Hebrew, Hindi-Urdu, isiXhosa, isiZulu, Italian, Japanese, Korean, Latin, Persian, Portuguese, Russian, Spanish, Swahili, Turkish, or Wolof. You should begin or continue your study of a foreign language in your first year.
2. By completing a fourth-semester foreign language course offered through one of several Study Abroad programs.
3. Students whose native language is not English or who have acquired substantial knowledge of a language other than English may take a language exam and meet the requirement by demonstrating appropriate proficiency, as determined by the College, in all skills relevant to the comprehension and production of that particular language. For additional information, please see the Foreign Language Advisor in the Taylor Academic Advising Center (CAS Room 105) to schedule an appointment after the second week of the semester.
4. You may already have satisfied this requirement if you have an SAT foreign language subject test score of 560 or above or if you have achieved a score on an Advanced Placement Foreign Language Exam that awards credit for the fourth-semester level of a language or higher.

### **Placement**

Regardless of the number of years you have studied a foreign language in secondary school, you must be placed in a course at the appropriate level. If you are planning to continue your study of a foreign language, you must take a placement test.

#### ***French or Spanish***

The placement tests for French or Spanish are online and should be taken before you come to Orientation or otherwise register for your language courses. To take the test, please visit <http://lpt.bu.edu> and enter the password `terriers1`.

#### ***German or Hebrew***

The placement tests for German or Hebrew are online and should be taken before you come to Orientation or otherwise register for your language courses. To take these tests, please visit the Modern Languages & Comparative Literature website at <http://bu.edu/mlcl>.

#### ***Ancient Greek, Modern Greek, Latin***

Ancient Greek, Modern Greek, and Latin may be used to fulfill the CAS foreign language requirement. At the beginning of each semester students can make an appointment to take a placement test by contacting the Classical Studies Department. More information is available at the Classical Studies website at [www.bu.edu/classics/undergraduate/advising](http://www.bu.edu/classics/undergraduate/advising).

#### ***Italian***

The Italian placement test should be taken before you come to Orientation or otherwise register for your language courses. To take the test, please visit Romance Studies website at [www.bu.edu/rs](http://www.bu.edu/rs).

#### ***All Other Languages***

Placement tests for all other languages will be administered at the beginning of each semester. For more information consult the Department of Modern Languages & Comparative Literature website at [www.bu.edu/mlcl](http://www.bu.edu/mlcl) or the Department of Romance Studies website at [www.bu.edu/rs](http://www.bu.edu/rs).

Be sure to read carefully the material under African Studies (Amharic, Hausa, isiXhosa, Swahili, Wolof, isiZulu, and other African languages), Modern Languages & Comparative Literature (Arabic, Chinese, German, Hindi-Urdu, Japanese, Korean, Persian, Russian, and Turkish), Romance Studies (French, Italian, Portuguese, and Spanish), or Classical Studies (Ancient Greek, Modern Greek, and Latin) in the CAS Bulletin website ([www.bu.edu/academics/cas](http://www.bu.edu/academics/cas)) for further information regarding the study of a foreign language.

#### **Please note:**

Results from Boston University placement tests do not satisfy the foreign language requirement. Placement by these results is valid for a maximum of one year.

If you are registered for a foreign language class, you must attend every session during the first week or you will be dropped from the course. Unlike your other courses, which offer a two-week period in which to change or add a class, you have only one week to do so with a foreign language (or writing or math) class.

### **Mathematics Requirement**

All students in the College of Arts & Sciences must demonstrate basic mathematics skills. To fulfill this requirement you must complete one mathematics course numbered CAS MA 109 or higher. This requirement should be completed no later than the sophomore year.

You may already have satisfied this requirement if you have achieved a score of 580 or above on your SAT math examination, a score of 3, 4, or 5 on an AP math exam, or an ACT math subscore of 23 or above.

*Note:* Even if you have met the CAS competence requirement in mathematics, you may need to take one or two mathematics courses to satisfy Divisional Studies or major requirements.

### **Electives**

After having satisfied the previously outlined requirements, you may choose the remainder of your 32 semester courses from among those offered in the College of Arts & Sciences or in the other undergraduate schools and colleges of the University. Please note that CAS students may take no more than four courses in Metropolitan College (MET), and that enrollment in MET courses is limited to the junior and senior years and to no more than one MET course in a given semester.

## Minor

Although minors are not required, they are available to students who wish to demonstrate competence in an area other than their major. The minor consists of a coherent sequence of five to eight courses in a single department or interdisciplinary field. You may declare a minor in any of the academic departments, in African studies, African American studies, film studies, Judaic studies, Muslim studies, or women's, gender, & sexuality studies.

In addition to minors within the College of Arts & Sciences, minors are available to CAS students in business administration and management (through the School of Management); in communication, in film and television, and in journalism (through the College of Communication); in human physiology, in nutritional science, in public health, and in speech, language, and hearing sciences (through the College of Health & Rehabilitation Sciences: Sargent College); in music performance, in theatre arts, and in visual arts (through the College of Fine Arts); in dance (through the College of Fine Arts and the Department of Physical Education, Recreation & Dance); in Deaf studies, in education, and in physical education, health education, and coaching (through the School of Education); and in hospitality administration (through the School of Hospitality Administration). Information on these minors can be found in the CAS Bulletin at [www.bu.edu/academics/cas](http://www.bu.edu/academics/cas).

Introductory courses for the minor are usually the same courses as those required for the major.

### Residence Requirement

Students in the College of Arts & Sciences are required to be registered as full-time students in CAS for one semester of their junior year and for both semesters of their senior year.

### Seven-Year Rule

Students must finish all coursework intended to count toward their bachelor's degree within seven years. This limit applies to transfer coursework. Students who anticipate that they might not complete their studies within eight consecutive semesters should plan to meet with an academic counselor in the Taylor Academic Advising Center to discuss how the Seven-Year Rule may affect them.

### Satisfactory Record Requirement

Graduation from CAS requires a minimum cumulative grade point average of 2.00 in all academic coursework. Grades for Physical Education courses and Military Science courses will not be included in this calculation, nor will grades for courses transferred from outside the University. In addition, students may offer for the degree no more than four courses with a grade of D. Courses for major and minor requirements must receive a grade of at least C.

A cumulative grade point average of at least 2.00 is also required to maintain good academic standing in the College.

### Course Load

Generally, full-time students take four 4-credit academic courses (16 total credits) each semester for four years. Students who successfully complete all requirements during that period will graduate with a total of 128 credits at the end of the fourth year. Some students may elect to complete three courses in a given semester; in these cases, credit must be made up at a later time. Tuition each semester covers 18 credits. Without additional cost, students may therefore elect to take one 2-credit course or two 1-credit courses in addition to their 16-credit academic program. Entering students may not register for more than 18 credits or fewer than 12 credits during their first semester.

## Physical Education Courses

Although courses in physical education may not be used to fulfill degree requirements in the College of Arts & Sciences, the University offers a variety of such courses, usually for one credit each. Students are encouraged, though not required, to elect one each semester.

## III. Special Programs

### Premedical and Health Science Programs

If you are considering a career in medicine, dentistry, veterinary medicine, or one of the related health professions (osteopathy, chiropractic, optometry, public health, physician assistant, or other health professions), the College of Arts & Sciences provides several valuable resources.

The Assistant Dean for Premedical Studies, who is also on the faculty at Boston University School of Medicine, and other premedical advisors are available in the College's Preprofessional Advising Office to counsel students on all matters pertaining to their professional goals. The Preprofessional Advising Office provides information regarding course selection, professional school admissions requirements, volunteer opportunities, and the application process. The office organizes meetings for interested students throughout the undergraduate years, beginning with the first semester of the first year. In addition, the Assistant Dean oversees the preparation of a Letter of Evaluation that is sent to professional schools as part of the application process.

The premedical/pre dental curriculum is not a major. You can fulfill the curriculum's requirements and at the same time major in any of the academic departments in the College. Historically, most premedical/pre dental students have majored in a biological science. However, medical and dental schools generally do not favor one undergraduate major over another. In fact, most medical and dental schools encourage students to obtain as broad a liberal arts education as possible; hence, you may wish to consider majoring in one of the Social Sciences or Humanities. While it is possible to combine preparation for medical or dental school with these areas of interest, you must still be able to demonstrate competence in the sciences.

Students intending to apply to medical or dental school must take at least one year of each of the following sciences with laboratory: biology, general chemistry, organic chemistry, and physics. A year of English composition or literature is also required, and a year of calculus is recommended or required by many medical schools. If you are entering the University with Advanced Placement credit in biology, chemistry, physics, or calculus, you may be prepared to begin your coursework at a more advanced level. However, you must consider this option carefully, and you should be aware that AP credit will not satisfy the science requirements at many medical schools. You will be advised at the time of registration concerning your particular situation and options.

Generally, students with strong backgrounds in mathematics and the sciences can plan on completing Biology I and II (CAS BI 107/108 or 118) and General Chemistry (CAS CH 101/102, 109/110 or 111/112) in the freshman year. Those who do not plan to major in Biology may choose to postpone the biology portion of the curriculum for at least one semester. Students with relatively low SAT scores or weak backgrounds in science and/or math may be advised to postpone taking chemistry or biology for at least one semester. Students who for other reasons might not be prepared to undertake all the demands and rigor of the premedical curriculum in their first semester of college may also consider an alternative sequence in which biology or chemistry is postponed. However, postponing either of these subjects may necessitate summer study or a delay in applying for medical school admission. You should plan on discussing which sequence of courses is most appropriate for

you with an advisor and with a premedical advisor, preferably at the time of registration or as early as possible during the first few weeks of the semester.

Special opportunities exist for students to complete medical school prerequisite courses in Cell Biology and Organic Chemistry I while spending a semester abroad through Boston University's science programs in Grenoble, France, or Dresden, Germany. With careful planning, the premedical/pre dental curriculum can accommodate participation in any of the study abroad programs listed on page 12.

For additional information, or to speak with a premedical advisor, please call 617-353-4866. The Preprofessional Advising Office is located in CAS Room B2.

### **Seven-Year Medical and Dental Programs**

Seven-Year Medical and Dental students will receive additional information regarding course selection and registration procedures directly from the director of the program (CAS Room B2). They should retain their registration packets until they receive this supplementary information.

### **Modular Medical Integrated Curriculum (MMEDIC)**

The MMEDIC program admits a limited number of qualified sophomores to the Boston University School of Medicine. These preselected students begin to fulfill the requirements of the curriculum at the School of Medicine during their junior and senior years. The MMEDIC program does not accelerate the premedical sequence, but provides a smooth transition from undergraduate to medical school study.

### **Combined BA/MPH Program**

Academically qualified sophomores and first-semester juniors with a demonstrated commitment to public health may be eligible to apply for a dual degree program combining the BA in CAS with the Master of Public Health (MPH) in the Boston University School of Public Health. Students selected for admission to the BA/MPH program will begin to fulfill curriculum requirements for the MPH while still enrolled as undergraduates in the College of Arts & Sciences. For additional information, please visit the Preprofessional Advising Office, CAS Room B2.

### **Prelaw**

The Law School Admissions Council (LSAC) and most law schools state specifically that a prelaw curriculum is not particularly advantageous or even desirable. Law schools look for skills in reading, analytical thinking, and written and oral communication; these skills can be gained in almost any curriculum. Thus, Boston University does not offer a specific prelaw curriculum. Instead, we suggest that a student choose classes based on his or her interest in the subject matter and his or her ability to do well in such classes. Students are, however, encouraged to develop the skills that are most likely to be utilized in law school and in the practice of law; they should, for example, perfect written and oral communication skills and keep abreast of current political and social issues. Additionally, students are urged to acquire a broad liberal arts foundation by taking courses in a number of different areas.

Some students may be undecided as to whether or not to pursue legal studies, and Boston University does offer courses related to law, legal thinking, and/or legal process in a variety of departments. These courses may be particularly helpful to students in the prelaw decision-making process.

Additionally, in terms of acquiring "hands-on" experience, students may wish to participate in internships with prelaw context. Two internship programs that may be of particular interest to students considering law school are the Boston University Washington Internship Program and the

London Internship Program. The Washington Internship Program includes placements with members of Congress and Congressional committees and caucuses. The London Internship Program offers a one-semester opportunity to combine academic courses taught by British faculty with work experience, including possible internship placements with members of Parliament, British law firms, or a commercial legal department. Courses offered in the London program include Comparative British and American Constitutional Law, and the Anglo-American Legal Tradition. For additional information about internships, please contact BU International Programs, 888 Commonwealth Avenue, Boston, MA 02215; 617-353-9888; [www.bu.edu/abroad](http://www.bu.edu/abroad).

Each year, approximately 500 current students or alumni of Boston University apply to law schools. Students who are thinking about law school should register early in their college careers with the Prelaw Advising Office, CAS Room B2. The office has information and materials relating to law school and law-related careers.

Interested students should also obtain information in CAS Room B2 about the five student prelaw organizations: the Prelaw Society, the Diversity in Law Association, the Prelaw Review, the Mock Trial Team, and the Mock Mediation Team.

### **Boston University Dual Degree Program**

The dual degree program allows qualified students to enroll simultaneously in two of the University's undergraduate colleges and thus earn two bachelor's degrees. By pursuing this program you can combine the benefits of a broad and flexible education in the liberal arts with specialized training in one of the professions. Among the most popular combinations have been the Economics concentration in the College of Arts & Sciences and the Accounting concentration in the School of Management, and the English, Political Science, or History concentration in the College of Arts & Sciences and the Journalism program in the College of Communication. Many other combinations are possible as well.

You may apply for admission to the dual degree program any time after completing the first year at the College of Arts & Sciences, but no later than the middle of the junior year. A minimum grade point average of 3.00 is required. A minimum of 144 credits must be earned in no fewer than 36 courses; some programs require more. Interested students should meet with an academic advisor in the Taylor Academic Advising Center.

### **Independent Major**

For students whose academic interests span several different disciplines, the College offers the Independent Major. With the advice of faculty in related disciplines, the student creates an individualized program focusing on a central theme or area of concern. After approval by the Independent Concentration advisor, this program becomes the student's major and appears as such on his or her diploma. Recent programs have included American Government Policy in the Middle East; Biological, Psychological, and Social Aspects of Disease; Aesthetics: Pure and Applied; Urban Design; and Neurolinguistics.

Interested students should consult with the Independent Major advisor in the CAS Advising Center. *Note:* First-year students may not apply for this program before the end of the first semester.

### **Combined BA/MA Program**

First-year students who are looking ahead toward careers or post-baccalaureate education may wish to consider the combined bachelor's degree/master's degree programs that are jointly offered by the College of Arts & Sciences and Graduate School of Arts & Sciences. In these programs the last two years of undergraduate study are integrated with the first year of graduate work, eliminating duplication of courses and, in some cases, reducing the time required to earn the two degrees. The

Master of Arts is seen as a capstone degree for the undergraduate experience, leading to enhanced career employment opportunities, professional training, or doctoral studies.

BA/MA programs are offered by many departments of the College. You may apply for admission to the program at any time between the conclusion of the sophomore year and March 1 of the junior year. A minimum grade point average of 3.00 is required; some departments may have higher requirements. BA/MA programs are not open to students in other dual degree programs.

### **Study Abroad**

Boston University International Programs ([www.bu.edu/abroad](http://www.bu.edu/abroad)) assists students who wish to undertake part of their academic program in another country. The office provides information on coursework and international internship opportunities. As a CAS student, you have the opportunity to participate in a large and growing number of Study Abroad programs. In each of these programs you spend either a full semester or an academic year abroad, earning Boston University credit. Since these programs are Boston University-sponsored, they meet residency requirements, impose no additional fees for tuition or housing, and—with the exception of Work-Study awards and supplemental grants—include all financial aid benefits.

Students may study beginning Chinese under the auspices of the Shanghai Chinese Language and Culture Program. BU International Programs also offers three intensive language programs allowing CAS students to complete the foreign language requirement. You may study French in Grenoble, France; Italian in Padova, Italy; or Spanish in Madrid, Spain. If you have already achieved a high level of competence in the French, German, Italian, or Spanish language, you may wish to spend a semester or academic year in an advanced program taking undergraduate courses taught in the language of the host country. Advanced-level programs are offered at the Université de Grenoble in Grenoble, France; the Université Paris 8 in Paris, France; the Technische Universität Dresden in Dresden, Germany; the Università degli Studi di Padova in Padova, Italy; the Universidad Autónoma in Madrid, Spain; the University of Burgos in Burgos, Spain; and the Universidad San Francisco de Quito in Quito, Ecuador.

Boston University also offers international internship programs in Auckland, New Zealand; Dublin, Ireland; London, England; Los Angeles, California; Madrid, Spain; Paris, France; Geneva, Switzerland; Dresden, Germany; Haifa, Israel; Shanghai, China; Sydney, Australia; and Washington, D.C. The one-semester Auckland, Dublin, London, Sydney, and Washington Internship Programs blend upper-division coursework with an internship in English-speaking countries; English is also the primary language of the program in Geneva, although students may do their internship in French. Other international internship programs in foreign-language speaking countries require four or five semesters of college-level language; these programs also combine academic coursework with an internship.

A number of Boston University's international programs have been specially designed to provide opportunities for study abroad in academic disciplines across the spectrum of the arts and sciences. Students who have completed at least one semester of Arabic language study have the opportunity to continue studying Arabic together with Islamic and Middle Eastern culture in Rabat, Morocco. Students interested in environmental studies may pursue a program in Tropical Ecology that takes advantage of the unique ecosystems in Ecuador and includes a four-week stay at the Tiputini Biodiversity Station in the Upper Amazon Basin. Other disciplinarily focused opportunities that neatly accommodate degree requirements for students' chosen majors are the Auckland Geological Sciences Program, the Dresden Science Program, the Geneva Physics Program, the Grenoble Science Program, the Guatemala Archaeology Program, and the London History & Literature Program. In Haifa, Israel, students combine language study with a semester at the University of Haifa and an optional internship.

Exchange programs make it possible for qualified Boston University students to enroll directly at the University of Copenhagen in Denmark, Institut d'Études Politiques de Paris (Sciences Po) in France, Bosphorus University or Middle East Technical University in Istanbul or Ankara, Turkey, Keio University in Tokyo, Japan, or the National University of Singapore. Advanced students of Japanese may also apply to spend a semester or academic year at the Kyoto Consortium for Japanese Studies, and students with a serious interest in Classics may apply to spend a semester at the Intercollegiate Center for Classical Studies in Rome, Italy.

Boston University also offers a number of summer opportunities through programs in Buenos Aires, Argentina; Dublin, Ireland; Geneva, Switzerland; Grenoble, France; London, England; Lima and Ayacucho, Peru; Los Angeles, California; Madrid, Spain; Menorca, Spain; Padova, Italy; Paris, France; Shanghai, China; Sydney, Australia; Tuscany, Italy; and Washington, D.C.

Additional opportunities to study abroad exist for students in the College of Arts & Sciences through participation in programs sponsored by other American colleges and universities. Students who opt for these programs should bear in mind that they are not sponsored by Boston University. Therefore, BU International Programs must be consulted to ensure that programs offered by other institutions are appropriately accredited. Students are responsible for ensuring transfer of credit and should also be aware that they remain obligated to satisfy the CAS residency requirement.

Students who are interested in any of the above programs should visit BU International Programs early in their academic careers, so that they may plan their programs carefully and receive the greatest benefit from them.

### **Undergraduate Research Opportunities Program (UROP)**

The Undergraduate Research Opportunities Program (UROP) is a University-wide academic program that promotes Boston University undergraduates' participation in faculty-mentored research projects. Students who participate in UROP have a chance to learn experientially through conducting actual research and become acquainted with the entire research process while working closely with Boston University faculty members.

For additional information about UROP, please call 617-353-2020, stop by the office at 143 Bay State Road, or visit [www.bu.edu/urop](http://www.bu.edu/urop).

#### IV. Academic Advising

Every student in the College of Arts & Sciences has an academic advisor. Advisors assist students in selecting programs of study that meet degree requirements and respond to students' academic backgrounds, interests, and abilities. When a student declares a major, he or she is assigned an advisor by the Director of Undergraduate Studies in the department of the major. Students who have not yet declared their majors are assigned advisors in the Taylor Academic Advising Center (CAS Room 105).

No student in the College can register for the following semester without consulting an advisor and obtaining that advisor's written approval for a program of study.

##### Preparing for your first advising appointment:

Once you have carefully read through this *Guide* and have a preliminary understanding of our College requirements, you will be ready to begin putting some of your knowledge to work. Consider the following questions as you prepare to discuss your first-semester classes with your advisor:

1. How will you satisfy the College Writing requirement?
2. How will you satisfy the College mathematics requirement?
3. How will you satisfy the foreign language requirement?  
Do you plan to continue a language you have previously studied?  
Do you want to begin studying a new language?  
Are you interested in studying abroad?  
Are you bilingual?  
Have you already satisfied the requirement?
4. Have you taken any Advanced Placement (AP) or International Baccalaureate (IB) examinations?  
In what subjects?  
What are your scores?
5. Are you interested in any special programs?  
Premedical and Health Sciences?  
Prelaw?  
Study Abroad?  
Minors in CAS or in one of the other colleges?  
Dual degree program?  
Other?
6. How will you satisfy the General Education requirement?  
Core Curriculum or Divisional Studies?  
If Divisional Studies, which courses interest you?  
Is there a division of the curriculum in which you are reluctant or hesitant to study?
7. Are you considering a particular major or majors?  
Which ones?  
Which introductory courses does this *Guide* suggest that you take as introductions to these majors?
8. If you are undecided about a major, what subjects interest you?  
What areas of study did you enjoy in high school?  
What new areas are you interested in exploring?

#### V. Registration Options, Step by Step

##### Three Options for Registration:

The next step in the registration process depends on the method of registration you have chosen.

##### If you will be attending University Orientation in June or July:

1. Make sure that you have registered online at [www.bu.edu/orientation](http://www.bu.edu/orientation) for the Orientation session you wish to attend.
2. Familiarize yourself with the information in this booklet and consider the questions on page 14 in order to prepare for advising.

After your advising appointment, you will register and receive a copy of your fall course schedule.

##### If you plan to register via Phone-in and Email Registration:

1. Make sure you complete the online registration form at [www.bu.edu/orientation](http://www.bu.edu/orientation) to let the Orientation office know you are unable to attend an Orientation session in June or July.
2. Contact the Taylor Academic Advising Center at 617-353-2400 or [cas105@bu.edu](mailto:cas105@bu.edu) to request a phone advising appointment.
3. You will receive an email with more information about Phone-in and Email Registration, including a toll-free number to call at your appointed time.
4. Prepare for your advising appointment by answering the questions listed above.
5. Call at your appointed time to consult with the advisor. (You may use the toll-free number provided.)

Your advisor will discuss your course selections with you and answer any questions you may have. Following that appointment, we will register you for the courses that you have discussed and send you a confirmation of your schedule.

##### If you register during school opening (August 31–September 3):

1. Familiarize yourself with the information in this booklet and consider the questions on page 14 in order to prepare for advising.
2. After your advising appointment, student advisors will assist you with registration and you will receive a copy of your fall course schedule.

All students (registered or unregistered) who are unable to attend Orientation in June or July are required to participate in the final two-day Orientation session during school opening. Please consult the website at [www.bu.edu/orientation](http://www.bu.edu/orientation) for more information. **Classes begin on Tuesday, September 6, 2011.**

### Other things you should know before you register:

- With the exception of WR courses in writing and a few sequenced courses in the sciences, no courses described in this *Guide* are considered primarily first-year courses.
- The later you register, the fewer your choices and the less flexibility you will have.
- The particular courses that constitute your first-semester program are based on the information you provide and on the availability of courses at the time you register.

Several subjects require **placement tests** before students begin their classes. Students planning to continue the study of **French, German, Hebrew, Italian, or Spanish** should complete the online placement test before coming to Orientation (see p. 6). For more information about studying Spanish at Boston University, please visit the Spanish section of the Romance Studies website: [www.bu.edu/rs/academics/course-offerings/spanish.html](http://www.bu.edu/rs/academics/course-offerings/spanish.html). All students who were required to submit TOEFL scores or other proof of English language proficiency as part of their applications for admission will take an **English placement test** during Orientation or at the beginning of the fall semester. This test of reading and writing skills will help determine your placement in a WR course of the College Writing Program. In order to choose wisely from a wide variety of courses in **mathematics and statistics**, students who contemplate taking any math or statistics in the first year should consult the “Mathematics Diagnostic Exams” website at [math.bu.edu/placement/placement1.html](http://math.bu.edu/placement/placement1.html). This site contains useful information for students choosing their first mathematics and statistics courses along with a diagnostic exam to help students assess their readiness for various courses. Advisors will have these test results so that students who attend Orientation can be advised as to specific course selections prior to registration. Students interested in taking the CH 111/112 course sequence in **chemistry** are required to take an online placement test before registering for CH 111. This sequence is designed for students with a solid background in algebra and at least one year of high school chemistry. The test will serve as a diagnostic for their level of preparedness and will provide feedback on any areas that need review before the beginning of the course ([www.bu.edu/chemistry/undergrad/resources/ch-111-placement](http://www.bu.edu/chemistry/undergrad/resources/ch-111-placement)).

All other **language placement tests** are offered at the beginning of each semester. Schedules for these exams are available in the Taylor Academic Advising Center (CAS Room 105) at 725 Commonwealth Avenue and in the Department of Modern Languages & Comparative Literature (or, for Portuguese, the Department of Romance Studies) at 718 Commonwealth Avenue.

A placement exam is also offered in **music**. All students interested in majoring in music, or thinking about majoring in music, should take the music theory test the week of August 29 at the College of Fine Arts, 855 Commonwealth Avenue. For further information on the major and minor in music, please contact:

Jessica Smith  
Administrative Coordinator, Musicology  
College of Fine Arts  
855 Commonwealth Avenue  
[smithj08@bu.edu](mailto:smithj08@bu.edu)

### Course Adjustment

Once you have officially registered, you may make changes to your fall course schedule either during the summer or during the first two weeks of the semester.

Before classes begin, you may request a change to your schedule by contacting the Taylor Academic Advising Center at 617-353-2400.

After classes have begun, you may use the Student Link, via the Web, to add and/or drop courses. In some cases, however, adding a course requires the signature of the instructor on a *paper* Add/Drop Form. You do not need the instructor’s signature to drop a class. Courses may not be added after the second week of classes (or—in foreign languages, mathematics, and the Writing Program—after the first week of classes). We recommend that you keep copies for your records of any Add/Drop Forms that you process. Any questions about how to change courses can be addressed in the Taylor Academic Advising Center.

Some of the more common and appropriate reasons for dropping and adding courses are:

1. You were unable to take a placement test until the beginning of the semester, and your test results indicate a different level from the course for which you have registered. **Note: for all writing and foreign language placements, you have only one week from the beginning of the semester to make a change.**
2. You have decided to change your major, or your special program interests have changed.
3. You discover that you have been placed in a class that is too advanced or too slow for you.
4. A space is now open in a preferred course or section that was previously closed to you.
5. Your advisor recommends a change.

If you choose to drop a course before the fifth week of classes, it will not appear on your transcript. However, if you drop a course after the fifth week of classes, the course will appear on your transcript, and you will receive a notation of “W” (withdrawal) for that course. No course may be dropped after the tenth week of classes.

Any significant changes to your schedule should be discussed with your advisor and considered carefully.

### Course Confirmation

Your course confirmation will list each course for which you attempted to register, including courses for which you are officially registered. You must read and understand the abbreviations shown below to know precisely what your registration status is for each course.

You are registered only for those classes and sections that are followed by the abbreviations “Reg” or “Add”.

### Course Confirmation Form Abbreviations

- ADD** means that you were successfully added to the class.
- DRP-ST** means that you dropped the class before the fifth week of classes.
- DRP-W** means that you withdrew from the class between the fifth and tenth weeks of classes.
- DRP-CL** means that you have been closed out of the class because enrollment has already reached its limit.
- DRP-NS** means that this class required permission, which you did not obtain.
- IND** means that the course lecture stands alone and does not have any labs or discussion groups.
- LEC** refers to the lecture portion of a course (there should be related lab[s] or discussion[s] on your schedule as well); lectures normally carry 4.0 credits.
- DIS** refers to the discussion portion of a course; this carries 0.0 credits and should be listed below the appropriate lecture session. (Attendance is required at discussions.)
- LAB** refers to a laboratory section and also carries 0.0 credits. (Attendance is required.)
- PLB** refers to a prelab lecture and carries 0.0 credits. (Attendance is required.)

### VI. Departments, Majors, Minors, and Courses

This section describes departments and programs within the College of Arts & Sciences and outlines introductory courses appropriate for first-year students, many of which are gateway courses to the various departmental majors and minors.

Several departments offer more than one major, and a few offer joint majors with other departments; detailed descriptions of each appear in the CAS Bulletin at [www.bu.edu/academics/cas](http://www.bu.edu/academics/cas). Since the introductory courses for all majors within a department are likely to be the same, it is not yet necessary for you to identify a specific track or sequence of courses within a major. Whether you have selected a major or remain undecided, you will be able to discuss specific programs and course sequences with your advisor when you arrive in the fall.

#### African Studies

The African Studies Center offers an interdisciplinary minor in African studies, as well as courses in African languages that fulfill the College language requirement. At the 100 level, the approach to language is oral with conversation, practice and drilling, and an introduction to reading and culture. The 200-level courses will include work in grammar and writing, and continue with reading and conversational exercises.

- East Africa:** CAS LD 111 Amharic.  
CAS LE 111 Swahili.
- South Africa:** CAS LM 111 isiXhosa.  
CAS LD 115 isiZulu.
- West Africa:** CAS LA 111 Hausa.  
CAS LW 111 Wolof.

### African American Studies

The minor in African American studies is for those students who, though majoring in other disciplines, desire a knowledge of the African American experience in history, the humanities, and the social sciences. In addition to placing events in the U.S. in a global context, the minor provides an introduction to various forms of collective identity, such as race and ethnicity.

**CAS AA 103 Introduction to African American Literature.** Examines political, cultural, and historical roots of the African American experience through readings in African American literature. 1st sem.

**CAS AA 304 Introduction to African American Women Writers.** Surveys the writings of African American women writers from slavery to the present and explores the African American female literary tradition in the context of black history and culture. Topic for Fall 2011: Toni Morrison's *American Times*. Examines four of the Nobel Laureate's novels, using primary and secondary materials to construct historical contexts and critical perspectives. Also offered as CAS EN 370. 1st sem.

**CAS AA/HI 371 African American History.** The history of African Americans from African origins to present time; consideration of slavery, reconstruction, and ethnic relations from the colonial era to our own time. 1st sem.

### American & New England Studies

The interdisciplinary major in American & New England studies gives students a broad and critical understanding of the culture and society of the United States through a series of core courses, training in the scholarly discipline of one of the associated departments, and comparative study of a non-American society and culture. All students in the major complete a senior project on a topic of special interest.

**CAS AM 200 Introduction to American Studies.** 2nd sem.  
**CAS AM 250 American Arts and Society.** 2nd sem.

### Anthropology

The anthropology major at Boston University emphasizes social/cultural and biological anthropology, with particular reference to Asia, Africa, and the Middle East.

The breadth of materials covered by anthropology, together with its international focus, provides an excellent basis for a liberal arts education. Most specific career opportunities in anthropology require graduate work through the PhD, although the teaching of anthropology is gradually being introduced into elementary and secondary schools. Many students also go on to other professions. Increasing opportunities exist for employment in national and international agencies or various publicly funded programs.

**CAS AN 101 Introduction to Cultural Anthropology.** Introduces basic concepts, principles, and problems of cultural anthropology, emphasizing study of both traditional and complex societies. Special attention to the evolution of human societies and culture; changing organization and meaning of religion, economic life, kinship, and political order; and the problem of cultural variation in the modern world. (*Carries SS divisional credit*) Either sem.

**CAS AN 102 Human Biology, Behavior, and Evolution.** Biology relevant to the behavioral sciences. Introduces basic principles of evolutionary biology, animal social behavior, primate adaptations, human origins, genetic/hormonal/neural bases of behavior, and issues of human socioecology and adaptations. Laboratory sessions allow in-depth engagement with course material and introduce methods used in biological anthropology, including analyzing bones and fossil casts, observing animals, studying human biology, and conducting experiments. (*Carries NS divisional credit (lab)*) Either sem.

**CAS AN 240 Legal Anthropology.** An introduction to the anthropologist's approach to law. Investigation of the relationship among society, culture, and law focuses on how different societies generate and structure competition and conflict. Examines the range of social and symbolic mechanisms for regulating dispute. (*Carries SS divisional credit*) 1st sem.

**CAS AN 252 Ethnicity and Identity.** Political and cultural factors underlying ethnic and nationalist sentiments examined through case studies drawn from Europe, the Middle East, and Asia. Discusses factors underlying ethnic boundaries, as well as such boundary-transcending influences as the media. (*Carries SS divisional credit*) 2nd sem.

**CAS AN 260 Sex and Gender in Anthropological Perspective.** Cross-cultural examination of changing gender roles, expectations, and activities. Focuses on economic, social, political, and ideological determinants that structure the hierarchy of power and privileges accorded the thoughts, activities, and experiences of women and men in various societies. (*Carries SS divisional credit*) 2nd sem.

**CAS AN 263 The Behavioral Biology of Women.** An exploration of female behavioral biology focusing on evolutionary, physiological, and biosocial aspects of women's lives from puberty through pregnancy, birth, lactation, menopause, and aging. Examples are drawn from traditional and industrialized societies, and data from nonhuman primates are considered. (*Carries NS divisional credit*) 2nd sem.

**CAS AN 290 Children and Culture.** Explores the way various cultures shape the lives and social development of children. Topics include cultural concepts of childhood; the acquisition of culture; socialization and moral development; cognition, emotion, and behavior in childhood; children's language and play; and the cultural shaping of personality. (*Carries SS divisional credit*) 1st sem.

**CAS AN 351 Language, Culture, and Society.** Introduction to basic concepts, problems, and methods used by anthropologists in the investigation of relationships among language, culture, and society. Topics include language and conceptual systems, language and role, language and social context, and language and thought. (*Carries SS divisional credit*) 1st sem.

Expanded divisional studies list: The following carry social science divisional credit: CAS AN 210, 220, 243, 250, 280, 285; courses numbered AN 305–326; AN 337; and courses numbered AN 340–350; 352–397. The following carry natural science divisional credit without lab: CAS AN 331, 333, 334, 335, 336, 338.

## Archaeology

Boston University is one of a very few institutions in the United States to offer an undergraduate major in archaeology. The curriculum is designed to introduce students to past cultures around the world and is therefore a highly appropriate liberal arts concentration. At the same time, the program provides the academic, excavation, and laboratory skills that will ensure a solid background for graduate study. Typical career opportunities in archaeology on the professional level include university teaching, museum curatorship and administration, conservation of ancient materials, and (in the United States) cultural resource management.

The program offers both majors and minors on the BA level. Areas and subjects covered include classical (Greek and Roman) archaeology, Old World prehistory, Near Eastern archaeology, New World prehistory, and New World historical archaeology (U.S. colonial and industrial). Courses in archaeological field methods, theory, quantitative analysis of archaeological data, and technical analysis of archaeological materials are also offered on the undergraduate level. Before graduation students must complete AR 503, our archaeological field school requirement. AR 503 can be satisfied currently with our field schools in Guatemala and Spain. With prior approval by their advisor and the Director of Undergraduate Studies, students can transfer credit from a field school at another university to substitute for AR 503.

**CAS AR 100 Great Discoveries in Archaeology.** Illustrated lectures focus on the important discoveries of the discipline of archaeology. The course covers the whole of human prehistory and history around the world. Archaeological methods are described, along with the great ancient sites, including Olduvai, Lascaux, Stonehenge, Egyptian pyramids, and Machu Picchu. (*Carries HU divisional credit*) Either sem.

**CAS AR 101 Introduction to Archaeology.** Theory, methods, and aims of prehistoric and historical archaeology in the Old and New Worlds. Excavation and recovery of archaeological data; dating techniques; interpretation of finds; relation of archaeology to history and other disciplines. Examination of several Old and New World cultures. (*Carries SS divisional credit*) 1st sem.

**CAS AR 202 Archaeological Mysteries: Pseudoscience and Fallacy in the Human Past.** 1st sem.

**CAS AR 205 Origins of Civilization.** The comparison of origins and institutions of civilizations in the Old and New Worlds, including the first state-organized societies of Mesopotamia, Egypt, the Indus Valley, China, Mesoamerica, and Peru. (*Carries SS divisional credit*) 1st sem.

**CAS AR 208 Lost Languages and Decipherments.** 2nd sem.

**CAS AR 209 The Near Eastern Bronze Age.** 1st sem.

**CAS AR 210 Minoan and Mycenaean Civilizations.** 2nd sem.

**CAS AR 215 The Contested Past.** 2nd sem.

**CAS AR 222 Art and Architecture of Ancient America.** 1st sem.

**CAS AR 230 Archaeology of Classical Civilizations.** An introduction to classical antiquity through the material remains of the period ca. 1500 B.C. to A.D. 400. Chronological survey of the magnificent (palaces, temples, and major arts) and the mundane (pots, coins, tools, and weapons) as evidenced in the archaeological record. Special emphasis on daily life and on relations between Greco-Roman and other cultures. (*Carries HU divisional credit*) 1st sem.

**CAS AR 232 Archaeology of Ancient Egypt.** The technology, economy, social life, political organization, religions, art, and architecture of Egypt from predynastic times through the Hellenistic period, based on archaeological and historical sources. Emphasis on the period of the pharaohs (ca. 3200–323 B.C.). (*Carries HU divisional credit*) 2nd sem.

**CAS AR 240 Archaeology of Ancient China.** 1st sem.

**CAS AR 250 Ancient Mesoamerican Civilization.** 1st sem.

**CAS AR 251 Ancient Maya Civilization.** 1st sem.

**CAS AR 261 Asia's Ancient Cultures and Civilizations.** 2nd sem.

**CAS AR 262 Asian Gods and Goddesses.** 1st sem.

**CAS AR 270 New World Rediscovery: Archaeology of the Age of Exploration.** 1st sem.

### Astronomy

The Department of Astronomy offers first-year students a wide choice of introductory courses. For non-science majors and interested science students, the 100-level astronomy courses provide perspectives on the solar system, the universe, and our astronomical origins. The 200-level courses are intended primarily for astronomy and other science majors, but other students with a strong interest in astronomy and a good science background may also take them. At the 300–400 level, the department offers intensive courses covering the principal areas of modern astronomy and astrophysics.

The Boston University Observatory includes eight telescopes used for teaching, student research, and public open nights. In addition, the Astronomy department has a well-stocked research library, a modern darkroom, and a solar laboratory. The department computer room is equipped with several workstations and terminals connected to the campus network, as well as personal computers for processing astronomical images. These computers are also used for research, in which advanced students are encouraged to participate through directed study courses. Most astronomy majors, as well as other interested students, belong to the Boston University Astronomical Society (BUAS).

The Department of Astronomy offers the BA in Astronomy and, in collaboration with the Departments of Physics and Earth Sciences respectively, the BA in Astronomy and Physics and in Geophysics and Planetary Sciences. Also available is an accelerated BA/MA program leading (in five years) to both the BA in Astronomy and Physics and the MA in Astronomy. Recipients of the BA may work in related industries, research centers, or planetariums or continue toward higher degrees in astronomy and space physics. The BA can also be combined with graduate studies in management, education, or public communication for careers in administration of science facilities, science education, and science writing.

First-year students contemplating a career in astronomy should begin by taking courses in physics (starting with PY 251), mathematics (starting with MA 123), and AS 202 (Principles of Astronomy I) in their first semester.

Courses Intended Primarily for Non-Science Majors:

**CAS AS 100 Cosmic Controversies.** From surprise over the need to invoke Dark Matter and Dark Energy, to confusion about Pluto's being reclassified as a non-planet, this course explores how scientists explain our place in the physical universe, by focusing on some of the most current issues in modern astronomy. Topics range from the solar system, to extraterrestrial life, to the fabric of the entire universe. (*Carries NS divisional credit*) 2nd sem.

**CAS AS 101 The Solar System.** The historical development of astronomy and the motion of the planets. The formation of the solar system. The sun and its effects on the earth. Description of the planets and the moons of our solar system including recent results from the space program. Use of the observatory. (*Carries NS divisional credit*) (*lab*) Either sem.

**CAS AS 102 The Astronomical Universe.** The birth and death of stars. Red giants, white dwarfs, black holes. The Milky Way, other galaxies, the Big Bang, and various cosmological theories of our expanding universe. Use of the observatory. (*Carries NS divisional credit*) (*lab*) Either sem.

**CAS AS 105 Alien Worlds.** Examination of worlds within and outside our solar system. History of NASA and other space exploration programs. Discovery and properties of hundreds of planets around other stars. Possibility of life on other worlds. Students use telescopes to observe our solar system. Cannot be taken for credit in addition to CAS AS 101. (*Carries NS divisional credit*) 1st sem.

**CAS AS 109 Cosmology.** The evolution of cosmological thought from prehistory to the present: Greek astronomy, Copernicus, Galileo, Newton, and Einstein. Motion, gravity, and the nature of space-time. The expanding universe. The early universe and Big Bang. (*Carries NS divisional credit*) 2nd sem.

**CAS AS 117 Cosmic Evolution.** Physical and chemical evolution of the universe from its origin to the present, from simple to complex. Stellar evolution. Planetary formation and evolution. Origin of life. The rise of civilization and technology. The future of humankind. Search for extraterrestrial life. (*Carries NS divisional credit*) 1st sem.

Course Intended Primarily for Science Majors:

**CAS AS 202 Principles of Astronomy I.** Corequisite: MA 123 (or equivalent). Formation of the solar system; the earth and the space around it; the sun and solar wind; solar-terrestrial relations; the planets and their satellites; asteroids and comets; theory of orbital motion; space exploration. Lectures and night laboratories. Use of the observatory and darkroom. (*Carries NS divisional credit*) (*lab*) 1st sem.

### Biochemistry & Molecular Biology

Biochemistry and molecular biology have become essential components of modern biology and chemistry, as well as other fields including engineering and medicine. DNA, RNA, and proteins lie at the foundation of how organisms function; an understanding of fundamental molecular processes frequently provides insight into the basis of life itself. It is difficult to imagine studying evolution today without studying the evolution of an organism's DNA, just as it is difficult to try to understand why people get cancer without trying to understand the mutations of oncogenes that lie at the root of this tragic process. All of this scientific activity is possible through the interrelated fields of biochemistry and molecular biology, further extended to genetics and cell biology.

Not only is fundamental knowledge being accumulated, but it frequently has practical applications to problems as diverse as the cure of genetic diseases and the improvement of crop yield. This is a historical moment of great hope for the utilization of highly sophisticated technology. Biotechnology, which is the outgrowth of the study of biochemistry and molecular biology, will be one of the major components of this advance. Training in biochemistry and molecular biology will permit students to pursue a career in biotechnology or in such fields as education, communication, business, and law.

The biochemistry and molecular biology program (BMB) has been designed to provide a student with all of the fundamentals that are needed to enter the job market immediately after graduation or to pursue graduate work such as doctoral studies or medicine. This program is taught by faculty in the departments of Biology and Chemistry on the Charles River Campus. In addition, coursework and research opportunities may be pursued at the Medical Campus, although this option must be carefully coordinated.

A biochemistry and molecular biology major will take 18 courses at three levels: (1) foundation core courses, (2) biochemistry and molecular biology core courses, and (3) advanced electives. The core courses (11 total) are designed to provide a solid foundation in the basic tenets of biology, chemistry, and physics. The biochemistry and molecular biology core courses (4 total) simultaneously introduce these topics and teach up-to-date material. Finally, the advanced electives (3 total) provide an opportunity to explore specialized topics relevant to the individual student's scientific interests.

The foundation core courses are as follows: in biology, Biology II (BI 108 or 118), Cell Biology (BI 203 or 213), and Genetics (BI 206 or 216); in chemistry, General and Quantitative Analytical Chemistry (CH 109, 110) and Organic Chemistry with Quantitative Analysis (CH 203, 214); in physics, Elementary Physics (PY 105, 106); and in mathematics, Calculus (MA 121, 122). The biochemistry

and molecular biology core courses are: Biochemistry (BI/CH 421, 422), Molecular Biology I (BI 552), and Physical Biochemistry (CH 525). The advanced electives can be any three of over 20 courses, including numerous opportunities to do undergraduate research.

## Biology

Biology is the study of life and as such impacts the day-to-day existence of every person. From medicine to ecology, from genetic engineering to sociobiology, from the population explosion to conservation, biology is the most immediate of the natural sciences. Biochemists and molecular biologists study the interdependence of molecules and cellular function, neuroscientists and physiologists investigate function at the cellular and organismal level, and ecologists study the development of populations and interactions within ecosystems. The concept of evolution is basic to all these areas of study.

Although biology is relevant and familiar to everyone, the study of biology prepares majors for exciting and responsible careers. The BA with a major in biology provides a thorough grounding in all basic sciences and, so, can serve as a point of departure for careers in many related fields. Students are prepared for employment in numerous areas of government and industry as well as for professional training in research, medicine, dentistry, veterinary medicine, and biotechnology. With further training (in some cases at the undergraduate level), students can also qualify for careers in areas including public health, biotechnology, health administration, allied health professions, communication (TV, radio, journalism), education, government, environmental law, and oceanography.

The biology major requires nine courses in biology, including two semesters of introductory biology (BI 107/108 or 118). In addition, majors must complete a year of physics (PY 105, 106 or PY 211, 212 or PY 211, 106 or PY 241, 242), three semesters of chemistry, and two courses in mathematics or in mathematics and computer science: CAS MA 121 and 122; or MA 123 and 124; or MA 213 and 214; or CAS CS 108 or CS 111 and any of CAS MA 121, 122, 123, 124, 127, 129, 196, 213, 214; or a combination chosen from the MA courses listed above of one course in calculus and one in statistics. Chemistry requirements for the biology major vary according to the student's educational and career objectives and should be chosen in close consultation with the student's advisor. The usual program includes at least one biology course every semester, chemistry the first two years, and physics the third year. Although the Department of Biology does not have a specific premedical major, the normal biology sequence is designed to prepare a student for application to medical, dental, or veterinary schools. Biology majors interested in medicine should discuss premedical requirements with the Premedical Advising Office, CAS Room B2, and with their advisor.

For information on the BA/MA Program in Biotechnology see "Biochemistry & Molecular Biology; Biotechnology" in the CAS Bulletin at [www.bu.edu/academics/cas](http://www.bu.edu/academics/cas).

Specializations in behavioral biology; cell biology, molecular biology, and genetics (CMG); ecology and conservation biology (ECB); neurobiology; and quantitative biology (QB) may be entered by biology majors in their first year. The requirements include the same first-year science courses as previously outlined, with one exception: Students considering a specialization in quantitative biology should take CAS MA 123/124 or a higher numbered course in calculus or statistics. The ecology and conservation biology program offers the unique opportunity to study tropical ecology in Ecuador.

Five biology courses are required for a biology minor in the College of Arts & Sciences. Students must take BI 107/108 or 118 (Biology I and II) in addition to any three other courses normally approved toward a biology concentration.

**CAS BI 107 Biology I.** For students who plan to major in the natural sciences or environmental science, and for premedical students. Required for biology majors. No prerequisite. High school biology is assumed. Evolution, ecology, and behavior. The evolution and diversity of life; prin-

ciples of ecology; behavioral biology. Three hours lecture, three hours lab, including several weekend field studies. (*Carries NS divisional credit*) (*lab*) 1st sem.

**CAS BI 108 Biology II.** For students who plan to major in the natural sciences (including BMB) and for premedical students. Required for biology majors. It is highly recommended that students take CAS CH 101 before this course. High school biology is assumed. Cell and molecular biology, molecular genetics, physiology, and neurobiology. The molecular, biochemical, and cellular basis of life. Three hours lecture, three hours lab. (*Carries NS divisional credit*) (*lab*) 2nd sem.

**CAS BI 114 Human Infectious Disease: AIDS to Tuberculosis.** A study of the world's major human diseases, their causes, effects on history, pathology, and cures. Principles of immunology. Emphasis on present maladies such as AIDS, cancer, hepatitis, herpes, influenza, mononucleosis, tuberculosis. Designed as a divisional studies course; does not count toward major credit in biology. Three hours lecture, three hours laboratory. (*Carries NS divisional credit*) (*lab*) 1st sem.

**CAS BI 117 Global Ecology.** (*Carries NS divisional credit*) 2nd sem.

**CAS BI 118 Biology II (Honors).** Prerequisite: CAS CH 101 (or equivalent), AP Biology score of 4 or 5 (or equivalent), and consent of instructor. Alternative to BI 108 for well-prepared students. Selected topics in introductory molecular and cell biology, physiology, and neurobiology are covered in greater depth, with emphasis on experimental strategies and critical evaluation. Early laboratory sessions focus on methods; later project laboratory emphasizes inquiry-based learning. Three hours lecture, one hour discussion, three hours lab. (*Carries NS divisional credit*) (*lab*) 2nd sem.

**CAS BI 119 Sociobiology.** (*Carries NS divisional credit*) 2nd sem.

## Chemistry

Chemistry is often called the "central science" because of its focus on the structure and properties of all matter, especially at the atomic and molecular level. Chemistry stands at the intersection of biology, biotechnology, physics, geology, astronomy, environmental science, and materials science. Its study can lead to a wide range of professional opportunities in research, teaching, industry, governmental agencies, and the health sciences (medicine, dentistry, veterinary medicine); a BA with a major in chemistry can also serve as the basis of careers in law, marketing and sales, scientific writing, and environmental regulation, to name just a few.

The department's undergraduate programs are designed to meet the needs of students with a wide variety of interests, including graduate education in chemistry and related fields, industrial research, and teaching at all levels. The chemistry curriculum is built on a core of courses that cover the fundamental areas of chemistry (chemical principles, analytical, organic, physical, inorganic, and biochemistry), electives (e.g., advanced courses in specialized areas, undergraduate research), and calculus and physics. The standard major in chemistry not only qualifies students for certification by the American Chemical Society, but also permits diversification through a coupling with minors in other fields of science, mathematics, or computer science, and with the MMEDIC program; a major in chemistry with a specialization in biochemistry is also available. Another major option, with a somewhat reduced set of course requirements that does not qualify for American Chemical Society certification but does provide greater flexibility may be attractive to students who wish to design programs with additional elective possibilities (premedical studies) or the opportunity to study abroad. A program in the teaching of chemistry qualifies students for certification as high school teachers.

Chemistry courses are required in a number of other programs, including majors in biology, earth sciences, and environmental studies and in the Interdisciplinary Program in Biochemistry & Molecular Biology. All premedical and pre dental students must take one-year courses in both general chemistry (CH 101, 102 or CH 109, 110 or CH 111, 112) and organic chemistry (CH 203, 204 or CH 211, 212) regardless of their major. Students can couple a minor in chemistry with a major in other fields.

The department offers five introductory chemistry sequences appropriate to student goals; a first course in chemistry should be selected with careful attention to the objectives of each sequence.

- |  |             |
|--|-------------|
| 1) For chemistry majors and well-prepared science and premedical students:   | CH 111, 112 |
| 2) For biochemistry and molecular biology majors, and acceptable for chemistry majors:   | CH 109, 110 |
| 3) For science majors and premedical students; acceptable, but not recommended, for biochemistry and molecular biology majors and chemistry majors:      | CH 101, 102 |
| 4) For students who desire only a one-semester, terminal course:   | CH 131      |
| 5) For majors in the environmental science and environmental analysis and policy programs and for students with a general interest in the life sciences: | CH 171, 172 |

It is important to note that both the major in chemistry and the major in biochemistry and molecular biology require quantitative chemical analysis, a laboratory component that is included in the CH 109, 110 and CH 111, 112 sequences, but not in CH 101, 102. Those intending or considering either of these majors or the minor in chemistry are, therefore, strongly urged to elect CH 109, 110 or CH 111, 112. Additionally, students in CH 111 and CH 112 receive instruction in research-based writing and, upon completion of CH 112, receive equivalency for WR 150. The CH 101, 102 route is an acceptable one for majors in chemistry and in biochemistry and molecular biology, and for chemistry minors, but requires that an additional half-course (CH 201) be taken to meet the quantitative analysis requirement. *Students who start in a particular chemistry sequence (111, 112 or 109, 110 or 101, 102) must complete that sequence. Crossing between sequences is strongly discouraged and must be approved by the Director of Undergraduate Programs in the Department of Chemistry.* In addition to the appropriate general chemistry course, chemistry majors should include calculus (MA 123, 127, or 129) in their first-semester schedules.

During Orientation, advisors will help you choose the chemistry sequence that is most appropriate for you, based on your preparation and goals. Early in the semester, chemistry majors should register with the Chemistry Office, 590 Commonwealth Avenue, Room 299, to be assigned an advisor who will review their programs and make adjustments if necessary. Students seeking additional information are invited to contact Professor John Snyder, Director of Undergraduate Programs, Department of Chemistry (617-353-2621; jsnyder@chem.bu.edu). An orientation program for majors and other students interested in chemistry will be held early in September; the time and location will be widely advertised.

The life science chemistry sequence (CH 171, 172) is designed primarily for students in the CAS environmental studies programs or in the College of Health & Rehabilitation Sciences: Sargent College, and CH 131 is primarily designed for students in the College of Engineering; CAS students may also take these courses for divisional studies credit. However, these courses do not meet the admissions requirements of medical and dental schools, nor are they acceptable prerequisites for organic chemistry courses (CH 203 or CH 211).

Courses for Chemistry Majors, Biochemistry & Molecular Biology Majors, and Well-Prepared Science and Premedical Students:

**CAS CH 109 (fall semester) and 110 (spring semester) General and Quantitative Analytical Chemistry.** First-semester prerequisite: one year of high school chemistry, two years of high school algebra. Second-semester prerequisite: CAS CH 109. Two-semester sequence for students majoring in the sciences, especially for those considering a chemistry or biochemistry-molecular biology major but who do not enroll in CH 111/112. Stoichiometry, acids, bases, liquids, solids, solutions, equilibria, thermodynamics, kinetics, electrochemistry, atomic structure, bonding, and selected chemical systems. Correlated laboratory experiments emphasizing quantitative analysis. Three hours lecture, one hour discussion, one hour lab lecture; four hours lab in each semester. *(Carries NS divisional credit) (lab)*

**CAS CH 111 (fall semester), 112 (spring semester) Intensive General and Quantitative Analytical Chemistry.** First-semester prerequisite: one year of high school chemistry, two years of high school algebra, corequisite: MA 123 or 127 or 129, or advanced placement in calculus. Second-semester prerequisite: CAS CH 111. Intensive two-semester sequence for well-prepared students majoring in chemistry or other sciences. Brief review of stoichiometry, gas laws; extensive consideration of equilibrium, thermodynamics, atomic and molecular structure, kinetics; application of principles to selected elements and compounds. Lab experiments emphasize quantitative analysis and instrumental techniques; development of chemistry-related writing skills (students completing the CH 111/112 course sequence receive equivalence for WR 150). Three hours lecture, one hour discussion, one hour prelab lecture, four hours lab per week in each semester. Students seeking admission to CH 111 are required to take an online placement examination; see p. 16 for additional information. *(Carries NS divisional credit) (lab)*

**CAS CH 195 Freshman Seminar for Chemistry Majors (fall semester).** Prerequisite: freshman chemistry major. One-credit seminar required for first-semester freshmen planning to major in chemistry. Explores special topics in chemistry that are of current public interest and relevance. Introduction to research and career opportunities; discussion of professional ethics and other characteristics of a good scientist. Prospective chemistry majors should register for this seminar in addition to CAS CH 111, 109, or 101.

Courses for Science Majors and Premedical Students:

**CAS CH 101 (fall semester), 102 (spring semester) General Chemistry.** First-semester prerequisite: two years of high school algebra; Second-semester prerequisite: CAS CH 101. Stoichiometry, gases, liquids, solids, solutions, equilibrium, thermodynamics, electrochemistry, atomic structure and bonding, kinetics, and selected chemical systems. Three hours lecture, one hour discussion, one hour prelab lecture, and three hours lab per week. *(Carries NS divisional credit) (lab)*

Terminal Courses and Course Sequences:

**CAS CH 131 General Chemistry for the Engineering Sciences.** Corequisite: MA 123. A one-semester, terminal general chemistry course for students who do not require a two-semester sequence. Stoichiometry, atomic and molecular structure, bonding, chemistry of the solid state, chemical thermodynamics, and equilibrium. Three hours lecture, one hour discussion, three and one-half hours lab per week. *(Carries NS divisional credit) (lab)*

**CAS CH 171 Principles of General Chemistry (fall semester), 172 Principles of Organic Chemistry and Biochemistry (spring semester).** The first two courses of a three-course sequence in the application of chemistry to the life sciences. The first semester covers separation and purification of matter, atomic theory, structure of atoms, molecules and chemical bonding, chemical formulas, equations, Stoichiometry; water, solutions, concentration, acids, bases, pH and buffers; gases; reaction

kinetics and equilibrium; and radioactivity. The second semester deals with organic chemistry: structure, stereochemistry, and reaction of carbon compounds; emphasis on compounds of biochemical interest. CH 171 and 172 must be taken in sequence; each course consists of three hours lecture, one hour discussion, one hour prelab, and three hours lab per week. (*Carries NS divisional credit*) (lab)

### Classical Studies

Greek and Roman literature, art, philosophy, and other aspects of classical culture constitute a major part of the foundation of Western civilizations. For more than 2,000 years, the influence of classical civilization has been significant in the governmental and religious institutions, the languages and literature, and the arts and crafts of many cultures. To take only one example, the Constitution of the United States was shaped through the Founding Fathers' deep knowledge of the literature and history of ancient Greece and Rome. The study of classics not only provides access to the thoughts, achievements, and ways of life of the ancient Greeks and Romans, but also leads to comparative cultural studies across the ages.

Through courses in classical studies, students are engaged with some of the most profound thinkers and writers of all time. They explore issues of enduring importance in ethics, politics, art, literature, and history. A major in classical studies provides an ideal foundation for students interested in comparative literature, archaeology, linguistics, and a wide range of humanistic disciplines. Majors in classical languages can go on to pursue graduate study in Greek and Latin as well as teach at the secondary level. Beyond that, classical studies is seen as a superb major for students who wish to go to law school, business school, and medical school. A major in classical studies teaches students to read and think clearly and enables them to deal, from a critical perspective, with ethical and moral issues raised by a professional career.

The Department of Classical Studies offers a wide range of courses in English translation as well as in the classical languages. Students may choose a major or minor in classical civilization, which focuses on courses in translation, or they may choose a major or minor in the Latin or Greek language. Among its faculty, the department includes world-renowned translators and interpreters of Greek literature such as Professor Jeffrey Henderson, one of the world's foremost authorities on classical drama, and Professor Wolfgang Haase, editor of *The Rise and Fall of the Roman World*, the most distinguished work of collaborative scholarship in Roman studies.

**CAS CL 101 World of Greece.** Greek antiquity viewed as fact and myth in Western tradition; Mycenaean Greece and emergence of the heroic mind; worldview of the Archaic Age; fifth century and classicism; breakdown of city-state, coalescence of oriental and Greek cultures, and growth of the Hellenistic monarchies. (*Carries HU divisional credit*) Either sem.

**CAS CL 102 World of Rome.** The Roman sociopolitical achievement; the public and private values of the ancient Roman people as viewed in their literature, language, and art. Roman family life, religion, and education and their meaning for our own age. (*Carries HU divisional credit*) Either sem.

**CAS CL 202 Warfare in Antiquity.** (*Carries HU divisional credit*) 2nd sem.

**CAS CL 213 Greek and Roman Mythology.** A general introduction to the myths of the ancient classical world, with particular regard to the patterns of experience, both religious and psychological, from which they evolved. (*Carries HU divisional credit*) Either sem.

**CAS CL 221 Greek History.** Introduction to the political, social, and economic history of Greece from the earliest historical period through the death of Alexander the Great. (*Carries HU divisional credit*) 1st sem.

**CAS CL 222 Roman History.** (*Carries HU divisional credit*) 2nd sem.

**CAS CL 224 Greek Drama in Translation.** Close and comparative study of selected tragedies by Aeschylus, Sophocles, and Euripides, in the light of theories of tragedy, ancient and modern, and of alternative forms of tragic drama in English. (*Carries HU divisional credit*) Either sem.

**CAS CL 226 Ancient Epic in Translation.** Studies, in translation, the tradition of Greek and Roman epic: heroic, cosmogonic, didactic. Possible authors include Hesiod, Homer, Apollonius, Aratus, Lucretius, Vergil, Ovid, Lucan, Statius. Focus on the social context, values, structure, and narrative of each poem. (*Carries HU divisional credit, expanded list*) 1st sem.

**CAS CL 305 Topics in Myth.** (*Carries HU divisional credit, expanded list*) 2nd sem.

**CAS CL 325 Greek Tragedy and Film.** Explores Greek tragic myth's afterlife, both directly and obliquely, in cinema and in the modern literature spawning cinema: how certain Greek tragic myths have come to life as film and how "non-mythic" stories have acquired a mythic power in literary and cinematic form. (*Carries HU divisional credit*) 1st sem.

Expanded divisional studies list: With advisor's approval and with the exception of directed studies, any CAS CL or CG course may be taken for divisional studies credit except CL 111, 112, 161, 162, 211, 212, 261, 262, and CG 111, 112, 211, and 212.

The following courses may be used toward fulfillment of the College of Arts & Sciences language requirement:

Courses in Modern Greek Studies:

**CAS CG 111 Beginning Modern Greek 1.** *Beginners only.* Course may not be elected by anyone with previous study of modern Greek without consent of the department. Provides a basic reading knowledge of modern Greek (Demotic) and introduces students to the spoken language.

**CAS CG 211 Intermediate Modern Greek 1.** Prerequisite: CG 112 or equivalent. Intensive review of modern Greek grammar and syntax and drill material from CAS CG 111 and 112. Development of advanced oral and reading skills.

Courses in Latin Language and Literature:

**CAS CL 111 Beginning Latin 1.** *Beginners only.* Introduction to basic forms and grammar of classical Latin.

**CAS CL 211 Intermediate Latin 1.** Prerequisite: CL 112 or equivalent. Emphasis on reading skills with selections drawn from Cicero, Petronius, Pliny, and/or Livy. Introduction to Latin prose style.

Courses in Ancient Greek Language and Literature:

**CAS CL 161 Beginning Greek 1.** *Beginners only.* Introduction to basic forms and grammar of ancient Greek. Extensive readings in classical texts and the New Testament.

**CAS CL 261 Intermediate Greek 1.** Prerequisite: CAS CL 162 or equivalent. Introduction to the readings of Greek prose, both classical and Hellenistic. Reading from Paul's *First Corinthians* and Plato's *Apology* with attention to the philosophical consideration of wisdom.

## Computer Science

The computer science program provides an education to last a lifetime in a fast-changing field. While making sure that our students are competitive on the job market the moment they graduate, we teach problem-solving techniques that apply regardless of the particular fashions of the day. The 15-course computer science major consists of a common foundation of courses complemented by electives in several tracks, including networks, data mining, artificial intelligence, operating systems, graphics, bioinformatics, and security. A six-course minor is also available. Students may participate in laboratory research directed by internationally renowned faculty to learn how CS is applied to help solve society's problems.

Career opportunities in computer science remain excellent, sustained by the ongoing revolution in computer technology and applications. In addition to careers in the software and hardware industries, students graduate to rewarding careers in a variety of business sectors, including financial, medical, education, gaming, media, and entertainment.

In the first semester, most prospective majors should take CS 111 and 131. Students with a score of 4 or 5 on the AP Computer Science A exam should take CS 112 and 131. If a student has room for only one CS course, then CS 111 (or CS 112 for students with a score of 4 or 5 on the AP CS A exam) is preferred. If, on the other hand, a student has room for a third course, MA 123 is recommended for students without experience in calculus. Students with more experience or unusual situations are encouraged to contact the department for guidance by emailing Professor Leo Reyzin, Director of Undergraduate Studies, at reyzin@bu.edu.

The department also offers CS 101–109 (which can be taken in any order and have no prerequisites) for non-majors interested in computing. These courses, as well as CS 111 and 112, satisfy the Mathematics & Computer Science divisional requirements.

More information about the department's course offerings, including detailed descriptions and course homepages, is available at [www.cs.bu.edu/education/courses.shtml](http://www.cs.bu.edu/education/courses.shtml).

**CAS CS 101 Introduction to Computers.** Computers are taken for granted in today's society, but most users have no knowledge of how computers work. CS 101 helps students gain a deeper appreciation of the capabilities and limitations of computing. Questions addressed include: What is a computer? How does computation happen? How is information represented within a digital computer? What is computer programming? What are algorithms, how do we measure their efficiency, and why does this matter? Why does a computer have an operating system, and what does it do? What is the Internet, and how does it work? How do applications like Google and Facebook perform their magic? Does not count for CS major or minor. (*Carries MCS divisional credit*) Either sem.

**CAS CS 103 Introduction to Internet Technologies and Web Programming.** CS 103 invites students to engage with the Web in order to gain an understanding of what it is, how to use it, and how to contribute to it. Students learn to view the Web and the underlying Internet architecture as instances of the mathematical abstraction of a network. They learn how modern Web technologies like search exploit fundamental aspects of networks, and they thereby become more effective users of these technologies. Finally, students become active contributors to the Web by learning the basics of Web programming and by creating a full-blown original website as an independent semester-long project. Does not count for CS major. (*Carries MCS divisional credit*) Either sem.

**CAS CS 105 Introduction to Databases and Data Mining.** Databases are everywhere. Retailers use data about customers and purchases to increase profits. Researchers analyze genomic data to find treatments for diseases. Online music and video services use data mining to deliver cus-

tomized recommendations. How does all this work? CS 105 examines how data is organized, analyzed, and displayed. Topics include relational databases and the SQL query language, the writing of programs to analyze data, the principles of data visualization, and data-mining techniques for discovering patterns in data. At the end of the course, students apply the topics they have learned to a collection of data that interests them. Does not count for CS major. (*Carries MCS divisional credit*) Either sem.

**CAS CS 108 Introduction to Applications Programming.** As a society, we have become dependent on computer applications in our personal and professional lives—from email programs and database software to the programs that drive the websites where we shop online. But what is computer software, and how is it developed? CS 108 is an introduction to object-oriented and procedural programming that covers the fundamental constructs and patterns present in all programming languages, with a focus on developing applications for users. While learning to program, students also develop problem-solving skills and ways of thinking that can be applied to a variety of disciplines. Cannot be taken for credit in addition to CAS CS 111. Does not count for CS major. (*Carries MCS divisional credit*) Either sem.

**CAS CS 109 The Art and Science of Quantitative Reasoning.** Buying music online, making phone calls, predicting the weather, or controlling disease outbreaks would be impossible without mathematics, statistics, and computer science. This class, offered jointly with mathematics and statistics, focuses on methods of reasoning common to these disciplines and how they enable the modern world. Also offered as CAS MA 109. Does not count for CS major concentration. Satisfies mathematics competency requirement. (*Carries MCS divisional credit*) Either sem.

**CAS CS 111 Introduction to Computer Science I.** This is the first course for computer science, mathematics, and physical science majors, and others wishing a more technical approach than CAS CS 101 through CAS CS 109. Students develop basic skills in object-oriented computer programming using the Java programming language. (*Carries MCS divisional credit*) Either sem.

**CAS CS 112 Introduction to Computer Science II.** Prerequisite: CAS CS 111 or equivalent. Covers advanced programming techniques and data structures. Topics include recursion, algorithm analysis, linked lists, stacks, queues, trees, graphs, tables, searching, and sorting. (*Carries MCS divisional credit*) Either sem.

**CAS CS 131 Combinatoric Structures.** Representation, analysis, techniques, and principles for manipulation of basic combinatoric structures used in computer science. Rigorous reasoning is emphasized. Either sem.

Expanded divisional studies list: Students with all relevant pre- and corequisites and advisor's approval may take any CAS CS course numbered 100–599 (except CS 401/402 and 491/492) for MCS divisional credit.

## Earth Sciences

The Earth is a dynamic planet that has evolved continuously over its 4.6-billion-year history. Oceans and mountain belts were created and destroyed; life forms have evolved and become extinct; climate changes have resulted in glaciations and extreme warm periods; meteorite impacts, earthquakes, volcanoes, floods, and glaciers have altered the land surface. All of these events formed and continue to form the complex, interactive system that we call Earth.

The Department of Earth Sciences concentrates on the study of the solid Earth (geology) and its hydrosphere (oceans and groundwater) in order to understand how the Earth works as a system. This understanding is essential to enable us to find and wisely harness Earth's resources (such as oil,

gas, water, minerals, metals, and building materials), to face the environmental impacts of past and future development, and to predict future climatic change.

Our basic degree programs are designed to provide a strong fundamental education for students who wish to pursue graduate studies and/or work as professional earth scientists, environmental consultants, or hydrogeologists. Employment opportunities also exist in state and federal agencies, private consulting companies and institutes, and financial institutions where knowledge of Earth's processes is necessary for effective economic investments and planning.

Areas of research specialization in the Department of Earth Sciences include earth surface processes, coastal processes, geochemistry of ocean water and sediment, oceanography, paleoclimatology, hydrogeology, hydrology, hydrogeochemistry, geological remote sensing, petrology, geochemistry, structural geology, and tectonics. Our relatively small department offers the opportunity for close interaction among undergraduates, graduate students, and faculty as part of ongoing research projects in the field and laboratory.

Students planning a major or minor in earth sciences should take one of the following courses:

**CAS ES 101 The Dynamic Earth.** Introduction to the dynamic Earth, including plate tectonics, earthquake and volcanic hazards, mountain-building processes; igneous, metamorphic processes; surface processes, erosion, soil, and sediment formation; hydrogeology. Interactions among the lithospheric, hydrospheric, atmospheric, and biospheric systems are emphasized. Three hours lecture, two hours lab, including field trips. (*Carries NS divisional credit*) (lab) 1st sem.

**CAS ES 105 Environmental Earth Sciences.** Geological processes in environmental science; groundwater quantity and quality; geological resource supply and recovery; earthquakes, volcanic eruptions, and other natural hazards; land forms, climate, desertification, glaciation, and ocean circulation patterns. Three hours lecture, two hours lab, including field trips. (*Carries NS divisional credit*) (lab) 2nd sem.

**CAS ES 140 Earthquakes, Volcanoes, and Other Natural Disasters.** Explores the large natural events that affect us; examines their geologic causes, as well as their natural and human consequences. Topics include earthquakes, volcanoes, floods, impacts of extraterrestrial objects, and other near-surface disasters, with an emphasis on destructive solid-earth phenomena. (*Carries NS divisional credit*) 1st sem.

**CAS ES 142 Introduction to Beach and Shoreline Processes.** Coastal processes including tidal currents, wave action, longshore transport and estuarine circulation, barrier island and spit formation; study of beaches, dunes, and marshes; effects of tectonics, glaciers, and rivers on beaches and coastal morphology. Cape Cod field trip. (*Carries NS divisional credit*) 2nd sem.

**CAS ES 144 Oceanography.** Examines the physical, chemical, and biological processes by which the oceans serve as an agent to accelerate or moderate the pace of global change. Dynamic nature of the oceans on both a short- and long-term scale is emphasized. Also recommended for students considering a concentration in marine science. (*Carries NS divisional credit*) 1st sem.

Expanded divisional studies list: Students with a relevant CAS ES 100-level prerequisite may take CAS ES 351 for natural science divisional credit without lab or any of the following for natural science divisional credit with lab: CAS ES 222, 302, 317, 331, 333.

## Economics

The study of economics is an excellent preparation for those who plan careers in business and finance, law, government, and nonprofit organizations. As an applied social science, economics provides the

basis for analyzing many of the successes and failures of our society. Understanding economics is a basis for informed citizenship.

An economy is made up of businesses producing goods and services for sale; individuals working and receiving income and spending that income on goods and services; and government taxing businesses and individuals and providing services generally not available in the private sector. The manner in which this complex system is organized and coordinated through a series of interrelated markets is the subject of economics.

Microeconomics attempts to understand this complex system by studying the functioning of individual markets and how they relate to one another, examining for each market the interaction of decision-makers such as consumers, wage earners, corporations, and government agencies. Special issues addressed from this perspective include mergers and antitrust policy, environmental and energy issues, unions, agriculture, health, and other social policies.

Macroeconomics focuses on the functioning of the economy as a whole, examining issues such as unemployment, inflation, economic growth, and international trade. Macroeconomics is of special interest to those concerned with the magnitude of our nation's budget and trade deficits, as well as the fluctuations in exchange rates.

The Department of Economics offers four different introductory courses: EC 101 Introductory Microeconomic Analysis; EC 111 Introductory Microeconomic Analysis: Special Achievement; EC 102 Introductory Macroeconomic Analysis; and EC 112 Introductory Macroeconomic Analysis: Special Achievement.

EC 101 and 102 are applicable to the major and minor in economics. In both of these courses students are introduced to the basic tools of economic analysis that serve as prerequisite knowledge for the advanced course offerings in the department. Students normally take EC 101 before EC 102, but a student may enroll in EC 102 without taking EC 101, providing he or she is willing to engage in a moderate amount of extra work.

EC 111 and EC 112 are more advanced versions of EC 101 and EC 102, respectively. These courses offer a more rigorous presentation and are primarily designed for honors students and prospective majors with a more advanced quantitative preparation. Both courses are applicable to the major in economics.

### Note:

Potential economics majors may choose between the EC 101, 102 sequence and the EC 111, 112 sequence. Experience has shown that students whose quantitative skills are rusty will feel more comfortable in the EC 101, 102 sequence.

In addition to the introductory two-course sequence (EC 101, 102, or EC 111, 112), the economics major requires nine advanced courses in economics and one calculus course (MA 121 or above). Among the nine advanced courses in economics, majors are required to take courses in Intermediate Microeconomics, Intermediate Macroeconomics, and Economic Statistics. The remaining courses may be chosen from a wide range of offerings, according to the student's special interests.

EC 171 is a course for non-majors that introduces key concepts and models of economic decision-making with reference to the important decisions that individuals make over the course of a lifetime.

**CAS EC 101 Introductory Microeconomic Analysis.** Covers the economics of households, business firms, and markets; consumer behavior and the demand for commodities; production, costs, and the supply of commodities; price determination; competition and monopoly; efficiency of resource allocation; governmental regulation; income distribution; and poverty. (*Carries SS divisional credit*) Either sem.

**CAS EC 102 Introductory Macroeconomic Analysis.** Covers national economic performance; the problems of recession, unemployment, and inflation; money creation, government spending, and taxation; economic consequences of budget deficits and national debt; economic policies for full employment and price stability; and international trade and payments. (*Carries SS divisional credit*) Either sem.

**CAS EC 111 Introductory Microeconomic Analysis—Special Achievement.** The economics of households, business firms, and markets. Similar to CAS EC 101 but with a more rigorous approach and greater use of algebra. *Note:* EC 111 is offered only in the fall, EC 112 only in the spring. (*Carries SS divisional credit*) 1st sem.

**CAS EC 112 Introductory Macroeconomic Analysis—Special Achievement.** Covers the same material as in CAS EC 102 but more thoroughly and rigorously, with more frequent use of algebra. *Note:* EC 111 is offered only in the fall, EC 112 in the spring. (*Carries SS divisional credit*) 2nd sem.

**CAS EC 171 Personal Lifestyle Economics.** Applies the life cycle model to personal economic decisions including spending, saving, borrowing, insuring; matriculation; choosing careers, jobs, and locations; marrying, having children, divorcing; retiring, retirement accounts, taking Social Security; buying insurance; and investing in stocks and bonds. Does not count for Economics major or minor credit. (*Carries SS divisional credit*) Either sem.

## English

The Department of English offers courses in linguistics, creative writing, and both English and American literatures. A variety of 100-level courses are open to freshmen. A major in English at Boston University aims at developing a sophisticated response to literary art. Students are encouraged to see literature as central to the experience of the humanities. A major in English is easily and profitably combined with the study of foreign literature, classical civilization, history, psychology, philosophy, and the other arts.

Majors in English begin with EN 220 Seminar in Literature and HU 221 Major Authors I. These two courses are prerequisites for CAS EN 322 and 323, Survey of British Literature I and II, which are required of all majors. In addition to these courses, the major elects seven advanced-level courses, at least six of which are in English and one of which may be taken in Classical Studies, Modern Languages & Comparative Literature, or Romance Studies. The freshman who is considering a major in English may elect CAS EN 220 and HU 221 after completing CAS WR 100, or may take HU 221 in the first semester with an AP score of 4 or 5 or an SAT critical reading score of 670 or higher. CAS EN 220 satisfies the WR 150 requirement in the Arts & Sciences Writing Program.

English is conceived of primarily as a liberal arts major, not as a professional program. However, majors graduating with a BA in English from Boston University have gone on to a wide variety of careers, in addition to the obvious choices of teaching, writing, and editing. With its emphasis on the powers of analysis and articulation, and on reading and writing with accuracy and intelligence, the study of English provides an excellent background for graduate work in law, medicine, business, literature, or education.

The department's divisional studies courses are intended primarily for non-majors and are open to all students without prerequisites.

**CAS EN 120 Freshman Seminar in Literature.** Limited enrollment. Variable topics. Through discussions and frequent writing assignments, students develop skills in the close reading of literary texts and learn to express their interpretive ideas in correct and persuasive prose. Satisfies CAS WR 100 requirement. 1st sem.

**CAS EN 121 Readings in World Literature.** Representative fiction, poetry, and drama by selected major figures in world literature. Primarily for students not majoring in English. Classes are small and discussion is encouraged. This course is designed to help students discover how our present literature is defined by a global heritage. Readings vary with section but often include works by such authors as Homer, Sophocles, Ovid, Dante, Shakespeare, Tolstoy, Dostoyevsky, Turgenev, Shelley, Flaubert, Wharton, Ibsen, Kafka, Nabokov, Mishima, Achebe, and Walcott. (*Carries HU divisional credit*) Either sem.

**CAS EN 125 Readings in Modern Literature.** Representative fiction, poetry, and drama from modern Continental, British, and American writers. Primarily for those students not majoring in English. This course focuses on what Beckett called "the mess": the political, moral, and sexual confusion that emerged from nineteenth-century skepticism and nihilism and was compounded by the disorganization of Europe during the First World War. Students will discover the contexts from which modernism emerged and investigate the relationship between selected contemporary works and their modern predecessors. Readings vary but often include works by such authors as Conrad, Kafka, Brecht, Joyce, Yeats, Eliot, Thomas, Fitzgerald, Hemingway, Frost, Faulkner, Welty, O'Connor, Bishop, Achebe, and DeLillo. (*Carries HU divisional credit*) Either sem.

**CAS EN 127 Readings in American Literature.** Selected American writers from the Colonial period to the present. Prose and poetry representative of the American tradition. Primarily for students not majoring in English. Classes are small and discussion is encouraged. Students will examine the stylistic and thematic concerns that have helped define this country's sense of itself. Authors vary with section but often include works by Emerson, Hawthorne, Melville, Douglass, Whitman, Dickinson, Hurston, Faulkner, James, Baldwin, Pynchon, Barth, and Morrison. (*Carries HU divisional credit*) Either sem.

**CAS EN 128 Representing Boston.** The literary and cultural geography of the city of Boston, MA, from Puritan sermons to modern crime fiction. Readings by Winthrop, Wheatley, Hawthorne, Alcott, King, Malcolm X, Lowell, and LeHane; required fieldwork in graveyards, war memorials, the MFA, and Fenway Park. (*Carries HU divisional credit*) 1st sem.

**CAS EN 130 Literature and Science.** Through readings in British and/or American literature, an exploration of some of the following topics: science and technology as literary themes; historical construction of science and art; similarities and differences between literary and scientific methods; the development of science fiction. (*Carries HU divisional credit*) 1st sem.

**CAS EN 141 Literary Types: Fiction.** Critical reading of representative novels and short stories, primarily English and American, from the eighteenth century to the present. Primarily for students not majoring in English. Classes are small and discussion is encouraged. This course is designed to help students read fiction skillfully and with pleasure. Readings vary but often include works by Austen, Brontë, Dickens, Shelley, Hardy, Cather, Conrad, Hurston, Lawrence, Hemingway, Woolf, Bellow, and Morrison. (*Carries HU divisional credit*) Either sem.

**CAS EN 142 Literary Types: Poetry.** Critical reading of representative English and American poems. Primarily for students not majoring in English. Classes are small and discussion is encouraged. This course is designed to introduce inexperienced and moderately experienced readers of poetry to a variety of poems and poetic forms. Students learn how poetry works and how poetry offers a unique means of access to human experience. Selections vary but often include poems by Shakespeare, Jonson, Donne, Marvell, Blake, Wordsworth, Keats, Hardy, Dickinson, Yeats, Frost, Thomas, Jarrell, Bishop, Larkin, and Heaney. (*Carries HU divisional credit*) Either sem.

**CAS EN 143 Literary Types: Drama.** Critical readings of representative plays from the ancient Greeks to the present. Primarily for students not majoring in English. Classes are small and discussion is encouraged. This course considers drama as a world phenomenon and emphasizes

plays from the three great periods of dramatic art: the theater of fifth-century Athens, the theater of Shakespeare, and modern theater. The plays are read critically, listened to on recordings, and when local productions assist, viewed. Class discussions are concerned with the nature of theater itself, dramatic tradition, tragic and comic form, and the prevailing themes that keep drama significant in our lives. Playwrights frequently considered are Aeschylus, Sophocles, Aristophanes, Marlowe, Shakespeare, Ibsen, Brecht, and Fugard. (*Carries HU divisional credit*) Either sem.

**CAS EN 163 Readings in Shakespeare.** Representative tragedies, comedies, and histories. Primarily for students not majoring in English. CAS EN 163 is not a prerequisite for EN 164. This course gives students a chance to learn about Shakespeare's art through reading, writing, listening to tapes, and watching films. In a typical semester the class takes up seven plays. EN 164, second semester, does not repeat EN 163; students are invited to take both. (*Carries HU divisional credit*) 1st sem.

**CAS EN 175 Literature and the Art of the Film.** Survey and analysis of cinema as an expressive medium from the silent period to the present. Films are screened weekly and discussed in conjunction with works of literature. Students must register for screening, discussion, and lecture. (*Carries HU divisional credit*) Either sem.

**CAS EN 202 Introduction to Creative Writing.** An introduction to writing in various genres: poetry, fiction, plays. Students' work discussed in class. Designed mainly for those with little or no experience in creative writing. Does not give major credit. Limited enrollment. Either sem.

#### Courses Primarily for Majors:

The following two courses, required for majors, have no prerequisites except CAS WR 100. They are, however, prerequisites to CAS EN 322 and CAS EN 323.

**CAS EN 220 Seminar in Literature.** Fundamentals of literary analysis, interpretation, and research. Intensive study of selected literary texts centered on a particular topic. Attention to different critical approaches. Frequent papers. Limited class size. Required of majors in English. Satisfies WR 150 requirement. Either sem.

**CAS HU 221 Major Authors I.** Introduction to the major works of ancient and medieval European literature that influenced later Continental, English, and American literature: the Bible, Homeric epic, Greek tragedy, Virgil's *Aeneid*, and Dante's *Divine Comedy*. Required of majors in English. Either sem.

#### Environmental Analysis & Policy (administered by the Department of Geography & Environment)

Students in the environmental analysis & policy major receive an extensive background in the principal energy, resource, and environmental problems facing society, as well as the predominant analytical and resource management tools available to help solve those problems. Such tools include cost-benefit analysis, basic computer modeling skills, policy formulation and analysis, resource management, and statistics. Students also take a range of classes in the natural and physical sciences to ensure that they understand the biophysical basis of environmental issues. Proficiency in statistics and calculus is required by the end of sophomore year. In addition to the principal major requirements, students must complete five electives in one or more of the areas of Economic and Policy Analysis, Environmental Modeling, International Environmental Policy, or Human Institutions.

The major in environmental analysis & policy prepares students for a number of career paths. Students gain a strong set of analytical tools that are needed in government agencies, environmental

consulting firms, and nonprofit organizations that deal with a wide variety of energy and environmental policy issues. Graduate school is possible in several fields, including resource and environmental economics, law, resource management, and environmental policy.

The following introductory courses are required for students in the environmental analysis & policy major. Please refer to the appropriate department for course descriptions.

**CAS EC 101 Introductory Microeconomic Analysis.** (SS)

**CAS GE 100 Introduction to Environmental Science.** (SS)

**CAS BI 117 Global Ecology.** (NS)

**CAS MA 121 Calculus for the Life and Social Sciences I (MCS)** OR **CAS MA 123 Calculus I. (MCS)**

**CAS MA 213 Basic Statistics and Probability (MCS)** OR **CAS EC 305 Economic Statistics I.**

As well as one of the following four:

**CAS ES 105 Environmental Earth Sciences.** (NS) (lab)

**CAS GE 101 Natural Environments: The Atmosphere.** (NS) (lab)

**CAS CH 171 Principles of General Chemistry.** (NS) (lab)

**CAS PY 105 Elementary Physics.** (NS) (lab)

#### Environmental Science (administered by the Department of Geography & Environment)

The environmental science major provides disciplinary foundations in biology, earth sciences, and geography relevant to interdisciplinary study in environmental science. Students also take laboratory courses in chemistry and physics, and acquire proficiency in mathematics and quantitative modeling. In addition to the principal requirements for the major, students are required to complete four upper-level electives in techniques of environmental analysis and topical areas of particular interest.

Environmental science majors are prepared for a wide variety of environmental careers in private consulting firms, state and federal regulatory agencies, and university or private research laboratories. Most of these jobs require a broad, solid background in natural science and skills in field, laboratory, and computational methods. Students who complete coursework in geographical analysis will find their skills in remote sensing and geographic information systems to be in high demand among employers. In addition to a variety of employment options, graduate study is possible in traditional fields including biology, wildlife ecology, geology, and geography as well as a number of graduate programs in environmental science.

The following introductory courses are required for students in the environmental science major. Please refer to the appropriate department for course descriptions.

**CAS BI 107 Biology I.** (NS) (lab)

**CAS CH 171 Principles of General Chemistry.** (NS) (lab)

**CAS ES 105 Environmental Earth Sciences.** (NS) (lab)

CAS GE 100 Introduction to Environmental Science. (SS)

CAS MA 123 Calculus I. (MCS)

CAS PY 211 General Physics (NS) (lab) OR CAS PY 241 Principles of General Physics I (NS) (lab) OR CAS PY 251 Principles of Physics. (NS) (lab)

### Geography & Environment

The Department of Geography & Environment offers undergraduate majors with specialization in human geography or in physical geography (in addition to administering the majors in environmental science and in environmental analysis and policy). Human geography is the study of the spatial organization of human activity and human interaction with the physical environment. The human geography specialization can follow either of two tracks: the general track, which covers economic, political, and cultural geography, and the more focused economic geography track. Both tracks stress the application of analytical methods, including Geographic Information Systems (GIS). Graduates in human geography may find employment in urban and regional planning departments; firms consulting on transportation, industrial location, and retail site planning; and state and federal agencies with responsibilities for social services, economic development, and infrastructure policy. Human geography also provides an excellent background for students planning to do graduate studies in fields such as business administration, transportation planning, and the law.

Physical geography is the study of natural systems and cycles that interact within the Earth's life layer, where land and oceans meet the atmosphere. Majors with specialization in physical geography take a variety of courses designed to provide a broad background in natural sciences and expertise in the main topical areas of physical geography: landforms/soils/vegetation, hydrology, and climate. The program emphasizes the application of advanced information technology to geographical analysis with courses in GIS and remote sensing. Graduates in physical geography may find employment in firms consulting on environmental problems; research organizations addressing such diverse issues as forestry, water resources, and global climate change; state and federal agencies with environmental, wild-life, and resource mandates; and public and private sector organizations in the field of remote sensing.

The following introductory courses are required for students in the human geography major:

**CAS GE 103 Economic Geography.** Factors influencing the spatial organization of economic activity, including the spatial structure of urban regions, principles of regional trade and interaction, transportation networks, and spatial diffusion systems. Emphasis on the location of economic activity and spatial aspects of area development. (Carries SS divisional credit) 1st sem.

and one of

**CAS GE 100 Introduction to Environmental Science.** Introduction to basic physical, ecological, and environmental concepts underlying the relationship between human society and the natural environment. Evaluation of problems and options available in dealing with the areas of natural resources, pollution, environmental degradation and population growth. (Carries SS divisional credit) Either sem.

**CAS GE 101 Natural Environments: The Atmosphere.** An introduction to weather and climate. Topics include the controls of weather and climate, day-to-day variation in weather, severe storms, climates of the world, urban climate and air pollution, past climates and climatic change, and the impact of climatic variation on society. (Carries NS divisional credit) (lab) Either sem.

The following introductory courses are required for students in the physical geography major:

<b>CAS GE 101</b>	<b>Natural Environments: The Atmosphere</b> (see above)
<b>CAS BI 107</b>	<b>Biology I</b> (see Biology section)
<b>CAS ES 105</b>	<b>Environmental Earth Sciences</b> (see Earth Sciences section)

In addition to the courses listed above, the Department of Geography & the Environment offers the following courses toward the fulfillment of divisional studies requirements:

**CAS GE 110 Our Changing Planet: The Perspective from Space.** An integrated treatment of the various components of the Earth system: the atmosphere, lithosphere, ecosphere, and hydrosphere, as well as how they are changing. Extensive use of observations and measurements from space. Emphasis on global environmental change and human impact on earth. (Carries NS divisional credit) (lab) 1st sem.

**CAS GE 150 Sustainable Energy: Technology, Resources, Society, and Environment.** Examines the social, environmental, and technological aspects of renewable and nonrenewable energy systems. Discusses energy issues in context of globalization, climate change, and sustainable development. Explores lifestyle and policy decisions related to energy issues. (Carries SS divisional credit) 1st sem.

**CAS GE 201 World Regional Geography I.** Overview of the special combination of environmental, historical, economic, and organizational qualities of the regions of the Old World, including Western and Eastern Europe, the former Soviet Union, East and South Asia, the Middle East, and Africa. Emphasis on current issues of regional and global development. (Carries SS divisional credit) Either sem.

**CAS GE 250 The Fate of Nations: Climate, Resources, and Institutions.** Relationships among environment (e.g., climate), natural resources (e.g., energy, water), and human societies (hunter-gatherers to industrial economies). Principles from thermodynamics, climatology, ecology, and economics used to evaluate the role of environment and resources in the success and failure of societies. (Carries SS divisional credit) 1st sem.

### History

The Department of History offers a broad curriculum where students can develop their particular geographic or thematic interests by taking a specialized path toward fulfillment of requirements for the major. All students majoring in history must complete 12 courses, including the core methodology course (CAS HI 200), two upper-level seminars, and at least one course in each of American, European, World, and pre-modern history. CAS HI 200 is usually taken in the sophomore year. The department stresses its seminar program, where majors pursue intensive reading and research into specific historical problems. Guidelines are available for specialized paths in African History, Asian History, History of the United States and the North American Colonies, Intellectual and Cultural History, and International and Global History. Students choosing to design a specialized path are advised by a faculty expert in their area of interest.

All majors, especially those considering graduate school in history, should be proficient in at least one foreign language, and if possible two, by the time of their graduation. Double majors with history are encouraged in fields such as art history, literature, international relations and interdisciplinary area studies, philosophy, political science, and religion. The flexible six-course minor in history has no specific requirements other than one upper-level seminar and no more than two courses below the 200 level.

Note: The following courses may also be taken for credit toward the major.

**CAS HI 101 The Dawn of Europe: Antiquity to the Renaissance.** Covers the origins and rise of Europe, with emphasis on Greek and Roman antiquity, medieval institutions, the Renaissance city-state, and religious reform. Typical readings may include Thucydides' *Peloponnesian War*, the Bible, Machiavelli's *The Prince*, and Luther's *Christian Liberty*. (Carries SS divisional credit) 1st sem.

**CAS HI 102 The Emergence of Modern Europe: Renaissance to the Present.** Political and religious change; Enlightenment and Revolution; industrialization and the nation state; and modernity, the World Wars, and their consequences. Typical readings may include Rousseau's *Social Contract*, Marx and Engels' *Communist Manifesto*, and Silone's *Bread and Wine*. (Carries SS divisional credit) 2nd sem.

**CAS HI 150 Freshman Writing and Research Seminar.** Prerequisites: WR 100. These seminars bring students out of the classroom and into the archive and library. Students hone their detective skills by learning how historians investigate the past through primary sources including diaries, novels, government documents, and scientific treatises. Freshmen and sophomores only. Satisfies WR 150 requirement. Either sem.

**CAS HI 151 The Emerging United States to 1865.** Colonial society and the roots of the American Revolution; federalism, nationalism, Jeffersonian democracy; Jackson and democratic capitalism; expansion and imperialism; slavery and civil war. (Carries SS divisional credit) 1st sem.

**CAS HI 152 The United States Since 1865.** Reconstruction, industrialism, and recent social movements; labor and populism, imperial expansion, progressive politics, World War I, 1920s prosperity and the Great Depression, the New Deal, World War II, and the Cold War. (Carries SS divisional credit) 2nd sem.

**CAS HI 175 World History I: Origins of Humanity to ca. 1500.** Interrelationships among major world civilizations of Asia, Africa, the Americas, and Europe to 1500. 1st sem.

**CAS HI 176 World History II: 1500 to the Present.** Interrelationships among major world civilizations of Asia, Africa, the Americas, and Europe from 1500 to the present. (Carries SS divisional credit) 2nd sem.

There are no prerequisites for HI courses at the 100–300 levels. All of the following are offered in Fall 2011. For Spring 2012 courses, visit the Department of History website: [www.bu.edu/history/courses.html](http://www.bu.edu/history/courses.html).

**CAS HI 201 History of Medieval Europe**  
**CAS HI 202 Medieval Intellectual History**  
**CAS HI 203 Magic, Science, and Religion**  
**CAS HI 209 Christendom Divided: Reformation and Religious Conflict in Early Modern Europe**  
**CAS HI 210 Europe Between Renaissance and Reformation**  
**CAS HI 222 Science and Technology in World History**  
**CAS HI 223 Intellectual History of Europe in the Nineteenth Century**  
**CAS HI 229 The Great Powers and the Eastern Mediterranean**  
**CAS HI 245 Tudor England**  
**CAS HI 247 The Making of Modern Britain**  
**CAS HI 274 Issues in Modern Russian and Soviet History, 1861–1956**  
**CAS HI 283 The Twentieth-Century American Presidency**  
**CAS HI 284 History of War**  
**CAS HI 287 History of American Foreign Relations Since 1898**  
**CAS HI 288 American Foreign Policy Since 1945**  
**CAS HI 291 Politics of the American Environment**

**CAS HI 292 Economic History of the United States**  
**CAS HI 298 African American History**  
**CAS HI 300 American Popular Culture**  
**CAS HI 301 A History of Women in the United States**  
**CAS HI 302 Science and American Culture**  
**CAS HI 306 American Thought and Culture, 1900 to the Present**  
**CAS HI 311 The South in History and Literature**  
**CAS HI 328 The Civil War Era**  
**CAS HI 329 The Gilded Age, 1877–1914**  
**CAS HI 338 The United States, 1945–1968**  
**CAS HI 347 Reconstructing the African Past** (Carries SS divisional credit)  
**CAS HI 361 Black Radical Thought**  
**CAS HI 369 Introduction to Modern Japanese History**  
**CAS HI 378 Armenia from Antiquity to the Middle Ages**  
**CAS HI 382 Turko-Persia in the Twentieth Century**  
**CAS HI 387 Introduction to the Middle East**  
**CAS HI 393 Topics in the History of Israel**  
**CAS HI 398 Protest, Revolution, and Human Rights in Latin America**

### History of Art & Architecture

This department offers minors in western art, non-western art, and architectural history, as well as the major in history of art & architecture. Also offered, in collaboration with the College of Fine Arts (CFA), is a separate new major in architectural studies.

Students majoring in history of art & architecture choose between a general track and a track with primary focus on the history of architecture. The general track requires a two-semester survey course in western art history (CAS AH 111/112), one-semester surveys in two of four non-western areas (African, Ancient America, Asian, and Islamic), and upper-level courses (including at least one seminar) chosen from a variety of art historical periods and areas. Requirements for the architectural history track of this major are similar, but students take AH 201 and AH 205 instead of AH 111/112 and focus their upper-level coursework on architectural history.

Whichever of the two tracks they choose, majors in history of art & architecture are encouraged to take courses in related areas such as archaeology, classics, philosophy, history, and literature. Opportunities exist for dual majors or major/minor combinations and are encouraged for those who wish to pursue an interdisciplinary liberal arts education. Each student works closely and regularly with his or her advisor in developing a coherent and meaningful program of study suited to his or her needs and interests. Upon graduation, art and architectural history majors may work in museums, galleries, architectural firms, municipal and state cultural programs, educational institutions, and the publishing industry. Many students go on to do graduate work in a variety of fields, and professional schools are increasingly interested in students with a background in the humanities.

The new major in architectural studies emphasizes skills and knowledge that are fundamental to thinking and writing about building and spaces, as well as to careers and graduate study in architecture, landscape architecture, and urban planning. In addition to AH 201, AH 205, and upper-level electives in architectural history and related disciplines, students majoring in architectural studies take drawing (CFA AR 131 or 132) and a second CFA visual arts course, as well as courses in architectural technology and materials, including at least one semester of calculus (MA 121 or 123) and at least one semester of physics (PY 105 or 211). The architectural studies major takes advantage of Boston's vibrant architectural scene and is especially appropriate for students considering graduate study leading to careers as professional architects.

**CAS AH 111 Introduction to Art History I: Antiquity to the Middle Ages.** An introduction to art history and the analysis of painting, sculpture, and architecture. Study of masterpieces from prehistoric to medieval times. Focus on monuments of Greece, Rome, and the Middle Ages, with a survey of Egyptian and Near Eastern art. (*Carries HU divisional credit*) 1st sem.

**CAS AH 112 Introduction to Art History II: Renaissance to Today.** Major monuments and artists. Sequential development, from the late Renaissance to the modern period of major styles in architecture, sculpture, painting, graphic arts, and photography. Relationship of visual art to social and cultural trends. (*Carries HU divisional credit*) 2nd sem.

**CAS AH 201 Understanding Architecture: Theoretical Approaches to the Built Environment.** Introduces a range of approaches to the analysis of architecture. Learn how scholars and architects have interpreted meaning in architecture through the rubrics of art, structure, language, nonverbal communication, experience, and culture. 1st sem.

**CAS AH 205 Architecture: An Introduction.** Examination of the factors involved in architectural design including program, spatial composition, structure, technology, iconography, and the role of architecture in society. Discussion of major monuments of world architecture. (*Carries HU divisional credit*) 2nd sem.

**CAS AH 215 Arts of Africa.** Exploration of key themes in royal art and architecture from western, central, eastern, and southern Africa. Topics include state cosmology, dynastic history, palace architecture, royal regalia and ceremonies, court women, and the importance of art in diplomacy and war. (*Carries HU divisional credit*) 2nd sem.

**CAS AH 220 Islamic Art and Architecture.** Examines key monuments of Islamic art and architecture within their historical and cultural context, and emphasizes the diversity within the visual cultures of the Islamic world. (*Carries HU divisional credit*) 2nd sem.

**CAS AH 222 Art and Architecture of Ancient America.** 1st sem.

**CAS AH 225 The Arts of Asia.** Surveys of the major artistic traditions of Asia. Important monuments are examined analytically in order to explain why certain forms and styles are characteristic of specific times and places, and how these monuments functioned in their cultural contexts. (*Carries HU divisional credit*) 1st sem.

**CAS AH 233 The Arts of Greece.** 1st sem.

**CAS AH 240 Medieval Art.** 2nd sem.

**CAS AH 284 Arts in America.** Survey of American painting, architecture, sculpture, prints, and photography from the early settlement in 1630 to the present. (*Carries HU divisional credit*) 1st sem.

**CAS AH 287 The Nineteenth Century.** 1st sem.

**CAS AH 295 History of Photography.** 2nd sem.

**CFA AR 131 Drawing I.** Drawing based on observation and analysis. Study of perception and proportion to establish spatial and volumetric implications. Use of line, shape, and value in the context of visual descriptions of various motifs, still life, landscape, and the human figure. Either sem.

**CFA AR 132 Drawing I.** A continuation of CFA AR 131. Drawing based on observation and analysis. Study of perception and proportion to establish spatial and volumetric implications.

Use of line, shape, and value in the context of visual descriptions of various motifs, still life, landscape, and the human figure. Either sem.

Expanded divisional studies list: With advisor's approval, any CAS AH course at the 100, 200, or 300 level may be taken for humanities divisional credit.

### International Relations and Area Studies

The Department of International Relations is a multidisciplinary department. Beside courses in international relations, students choose from others in history; economics; political science; religion; sociology; anthropology; women's, gender, & sexuality studies; and geography & environment to complete the major. The major consists of 12 courses: four *required principal*, four *functional track*, and four *area track* courses. The *tracks* are designed to offer the student sub-concentrations in a particular geographic area (Africa and the Middle East, East Asia, Europe, or Latin America), and in a functional area (Environment and Development, Foreign Policy and Security Studies, International Economics and Business, International Political Economy, International Systems and World Order, or Regional Politics and Cultural Anthropology).

The *required* block of courses that forms the core of the program consists of the following: IR 271 Introduction to International Relations; IR 292 Fundamentals of International Economics; HI 289 History of International Relations, 1900–1945; and HI 290 History of International Relations since 1945. IR 292 can be taken only after students have completed introductory courses in microeconomics and macroeconomics. Students electing the functional track in International Economics and Business must take EC 392 or SMG IM 345 rather than IR 292 as a principal required course.

Entering students are encouraged to take IR 271 during their first or second semester and to complete HI 289 and HI 290 (principal required courses) by the end of their fourth semester. It is also advisable to complete the prerequisites to International Economics by that time, so that IR 292 can be taken in the fifth semester.

### Required Principal Course:

**CAS IR 271 Introduction to International Relations.** The study of basic factors in international relations. Includes surveys of the Western state systems, the concept of balance of power, nationalism, imperialism, the roles of international law and organizations, and the structure of the international political economy. Also offered as PO 271. (*Carries SS divisional credit*) Either sem.

Entering students may also explore the study of international relations by taking the following introductory course in their first semester:

**CAS IR 230 Fundamentals of International Politics.** Introduction to basic concepts of international politics: the state system and types of states, modern ideologies, legal frameworks of international transactions, and political regions. Also raises key issues such as population, the environment, war, and international law. Not for credit toward the major or minor in International Relations. (*Carries SS divisional credit*) 1st sem.

For students interested in international relations who wish to focus more intensively on a particular part of the world than the regional track permits, a major or minor may be pursued in East Asian studies, European studies, or Latin American studies. Information on each of these programs follows.

### East Asian Interdisciplinary Studies Program

Students interested in East Asia may pursue a major or minor through the East Asian Interdisciplinary Studies Program. The program is multidisciplinary, allowing students to choose courses from anthropology, history of art & architecture, history, international relations, modern languages & comparative literature, religion, and sociology. In order to ensure broad exposure to different aspects of the East Asian region, students are required to take at least three courses each in the humanities and in the social sciences. The major consists of 10 courses: one required principal course, two core courses, and seven principal courses. Students combine their interest in East Asia with completion of a minor in a related discipline.

Entering students are encouraged to choose their first courses from among the following: RN 103 Religions of the World: Eastern, LC 250 or 251 (Chinese literature in English translation), LC 283 Chinese Civilization, LJ 250 or 251 (Japanese literature in English translation), LJ 281 Japanese Civilization, XL 284 Introduction to Comparative Literature: East Asian Literature, and IR 275/PO 365 The Pacific Challenge.

### European Interdisciplinary Studies Program

Europe is an area of great importance in, and to, the world through its cultural heritage; political, economic, military, and religious histories; literature, music, film, and philosophy; as well as in its recent emergence as a new kind of international form through the European Union. The European Interdisciplinary Studies Program offers a ten-course major and a six-course minor, both drawing on courses in eleven CAS departments and on Boston University international programs in England, France, Germany, Ireland, Italy, Spain, and Switzerland. Students majoring in European studies specialize in one of three tracks: European Arts and Literature; European History, Philosophy, and Religion; or European Politics and Society. In addition to five courses in their track of specialization, and two in each of the other two tracks, all majors are required to take an interdisciplinary capstone seminar, to attain significant proficiency (six semesters) in a European language other than English, and to complete a complementary minor (or second major) in a related social science or humanities discipline. Although the focus of the European studies major is on the modern and contemporary periods (18th–21st centuries), one or two courses from the Middle Ages through the 17th century may be substituted in any track.

Interested students are strongly encouraged to begin or continue study of a European language in their first semester of enrollment. Prospective majors may also consider taking one of the following courses, which provide broad introductions to European studies through the lens of art history, history of ideas, and international relations, respectively: AH 287 The Nineteenth Century, HI 223 Intellectual History of Europe in the Nineteenth Century, or IR 250 Europe and International Relations.

### Latin American Interdisciplinary Studies Program

The Latin American Interdisciplinary Studies Program is designed to illuminate both the core similarities of the region and its significant, even startling differences with a set of courses across academic disciplines. The program offers both a major of 11 courses and a minor of six. Each includes selections from pre-Columbian and historical context (Group I); art and literature (Group II); and contemporary context: anthropology, economics, international relations, political science, and sociology (Group III). Language competency is an important part of the program and may be demonstrated by proficiency testing, study in Latin America (Boston University has a Study Abroad program in Quito, Ecuador), and/or up to five semesters of courses in Spanish or Portuguese.

Entering students interested in the Latin American studies major or minor should begin right away to satisfy the language requirement by taking Spanish or Portuguese (or, if competency is demon-

strated by testing, they are encouraged to consider a 400-level Latin American literature course). During the first year, students should also take one or two introductory-level courses of their choice from the following offerings:

Group I:	AR 250	Ancient Mesoamerican Civilization
	AR 251	Ancient Maya Civilization
	AR 270	New World Rediscovery: Archaeology of the Age of Exploration
	AR 322	Ancient Aztec and Inca Civilization
	HI 397	Modern Latin America
Group II:	AH/AR 222	Art and Architecture in Ancient America
	LS 350	Introduction to Analysis of Hispanic Texts ( <i>HU divisional credit</i> )
	LS 456	Spanish Medieval and Golden Age Literature
	LS 457	Twentieth-Century Spanish-American Literature
Group III:	IR/PO 367	Introduction to Latin American Politics and International Relations
	IR/SO 242	Globalization and World Poverty ( <i>SS divisional credit</i> )

### Judaic Studies

The minor in Judaic studies, offered through the Elie Wiesel Center for Judaic Studies, provides students with an opportunity to improve their understanding of Jewish history, literature, thought, and religion alongside their other academic programs. Interested students are strongly encouraged to begin or continue their study of Hebrew language.

### Marine Science

The interdisciplinary program in marine science combines perspectives from biology, geology, chemistry, and physical oceanography. The marine science major and minor offer a special opportunity for research training in the junior or senior year, with courses in the marine laboratory on the main campus and at several off-campus locations, including the New England Aquarium, Stellwagen Bank, and Woods Hole in Massachusetts, and Belize.

Students considering a major in marine science should register for CAS ES 144 (including a special MP or MR discussion section) in their first semester.

**CAS ES 144 Oceanography.** Examines the physical, chemical, and biological processes by which the oceans serve as an agent to accelerate or moderate the pace of global change. The dynamic nature of the oceans on both a short- and long-term scale is emphasized. (*Carries NS divisional credit*) 1st sem.

### Mathematics & Statistics

The Department of Mathematics & Statistics offers programs in pure mathematics, applied mathematics, and statistics. Joint programs are offered with biology, philosophy, computer science, and mathematics education.

Mathematics has an important role in the development of our technological society. Men and women who receive training in the mathematical sciences and related areas such as engineering, computer science, economics, and management increase their employment opportunities. There is a continuing need to increase and replenish the pool of well-educated teachers who are able to communicate their

knowledge of mathematics with enthusiasm. Statistics and operations research are important quantitative tools of the social sciences, business, and government. These areas have demands for personnel and, correspondingly, favorable career opportunities. This is particularly so in the fields of health care and insurance. Mathematics is also an excellent premedical, prelaw, or prebusiness major because of its development of quantitative skills and general training in deductive thinking.

The major in mathematics requires 13 courses beyond the level of first-year calculus. The freshman program almost invariably includes some courses in calculus. Students with no prior experience in calculus should enroll in MA 123 Calculus I. A student who has studied calculus for a year in high school and who has received a grade of at least B may wish to enroll in MA 127 Enriched Calculus, or MA 124 Calculus II, and then take MA 225 Multivariate Calculus in the spring semester.

The department offers honors courses in calculus that are open to all students who are especially strong in mathematics. This program consists of four courses: MA 129 Honors Calculus, MA 230 Honors-Level Vector Calculus, MA 231 Honors-Level Differential Equations, and MA 442 Honors-Level Linear Algebra. A student need not be a mathematics major to enroll in these courses. A qualified student may enter the honors program in calculus beyond the first course, MA 129. In addition to calculus, students should take CS 111 Introduction to Computer Science I during the first year. Students interested in the statistics program should enroll in MA 213 Basic Statistics and Probability.

**CAS MA 109 The Art and Science of Quantitative Reasoning.** Buying music online, making phone calls, predicting the weather, or controlling disease outbreaks would be impossible without mathematics, statistics, and computer science. Focuses on methods of reasoning common to these disciplines, and how they enable the modern world. Also offered as CAS CS 109. (*Carries MCS divisional credit*) Either sem.

**CAS MA 113 Elementary Statistics.** This course covers the basic concepts of probability and statistics with applications in the social sciences. Primarily for students in the social sciences who need a one-semester introduction to statistics; others should consider MA 115 or MA 213. (May not be taken for major or minor credit. Students may receive credit for only one of MA 113, MA 115, and MA 213.) (*Carries MCS divisional credit*) Either sem.

**CAS MA 115 Statistics I.** This course covers the basic concepts of statistical inference. Estimation and tests of hypotheses. Ideas from probability; one-, two-, and multiple-sample problems. Primarily for students majoring in economics, education, government, psychology, and sociology who have limited preparation in mathematics. Students with good high school mathematics preparation should also consider CAS MA 213. (May not be taken for major or minor credit. Students may receive credit for only one of MA 113, MA 115, and MA 213.) (*Carries MCS divisional credit*) Either sem.

**CAS MA 118 College Algebra and Trigonometry.** This is an intensive one-semester course in algebra and trigonometry that prepares a student to study calculus. Topics include algebraic operations, systems of linear equations, linear and quadratic functions and identities, analytic geometry, and exponential and logarithmic functions. May not be taken for major or minor credit. MA 118 will fulfill the mathematics competency requirement but does not count toward the divisional studies requirement. Either sem.

**CAS MA 120 Applied Mathematics for Social and Management Sciences.** This course investigates concepts of mathematics that play a specific role in the analysis of problems arising in the areas of economics, finance, business, government, and other social sciences. It is preparation for more advanced mathematical study in management. Topics include algebraic equations, matrix algebra, probability, and the elements of differential calculus. Applications are stressed throughout the course. (May not be taken for major or minor credit.) (*Carries MCS divisional credit*) Either sem.

**CAS MA 121 (fall and spring semesters), 122 (spring semester) Calculus for the Life and Social Sciences I, II.** A two-semester sequence designed to acquaint non-majors with the tools of calculus that may be useful in areas of primary interest. This course is a popular choice of majors in biology, psychology, sociology, management science, and education and is selected by many pre-medical students to fulfill the usual requirement of one year of calculus. It is not intended for students who plan to continue their study of mathematics beyond the first year (in particular, it is not for mathematics, physics, chemistry, engineering, and some economics majors). The fundamental ideas of calculus are developed in a less general setting than CAS MA 123, 124, 127; more applications of a biological character are included, and there is somewhat more opportunity for review of precalculus mathematics. CAS MA 121 may be taken by itself as a one-semester introduction to univariate calculus. Some multivariate calculus is included in CAS MA 122. (May not be taken for major or minor credit. Students may receive credit for only one of MA 121 and 123. Likewise, they may only take one of the following courses for credit: MA 122, MA 124, MA 127, or MA 129.) (*MA 121 and 122 carry MCS divisional credit*)

**CAS MA 123, 124, 225 Calculus I, II, Multivariate Calculus.** This is the traditional calculus sequence, designed for students majoring in mathematics, engineering, or one of the natural sciences. Economics, biology, education, business, and premedical students often elect part or all of this sequence. CAS MA 123 Calculus I introduces the fundamental ideas of differential and integral calculus, with many examples and applications. CAS MA 124 Calculus II continues with techniques and applications of integration, an introduction to differential equations, and infinite series and sequences, completing the survey of univariate calculus. CAS MA 225 treats multivariate calculus. Each course is offered in both the fall and spring semesters. (May be taken toward the major. Students may receive credit for only one of MA 121 and 123. Likewise, they may take only one of the following courses for credit: MA 122, MA 124, MA 127, or MA 129.) (*MA 123 and 124 carry MCS divisional credit*) Either sem.

**CAS MA 127 Enriched Calculus.** This course covers the material of CAS MA 123 and 124 in a single semester. It is designed for students who have had a year of calculus in high school and is more challenging than MA 124. Emphasis is placed on material from the end of Calculus II (sequences, Taylor series). More challenging problems from Calculus I are also reviewed. Students who take CAS MA 127 in the fall proceed to CAS MA 225 in the spring. (May be taken toward the major, but not in addition to CAS MA 123 and CAS MA 124.) (*Carries MCS divisional credit*) CAS MA 127 is offered in the fall only.

**CAS MA 129 Honors Calculus.** This course is an alternative to CAS MA 127, designed for students with a solid background in calculus and a strong interest in mathematics. Topics from calculus are treated with more mathematical depth than in the traditional calculus sequence. The class size is small so that students can participate in the development and the analysis of ideas. Challenging problem-solving activities give students opportunities to exercise their own intellectual powers. If you expect mathematics to play an important role in your studies, this is a good place to start. (May be taken toward the major, but not in addition to CAS MA 123 and CAS MA 124, or CAS MA 127.) (*Carries MCS divisional credit*) CAS MA 129 is offered in the fall semester only. It leads naturally to CAS MA 230 (or 225) in the spring.

**CAS MA 213 Basic Statistics and Probability.** The prerequisite for this course is a good background in high school algebra. This course covers the elementary treatment of probability densities, means, variances, correlation, independence, the binomial distribution, and the central limit theorem. It stresses understanding and theoretical manipulation of statistical concepts. (May be taken toward the major, but may not be taken for credit in addition to CAS MA 113 or CAS MA 115.) (*Carries MCS divisional credit*) Either sem.

**CAS MA 225 Multivariate Calculus.** The prerequisites are MA 124, MA 127, MA 129, or a very strong background in calculus of one variable. Topics include geometry of higher dimensional

spaces, coordinate systems, multiple integration, directional derivatives, vector fields, the gradient, and potential functions. Either sem.

**CAS MA 230 Honors-Level Vector Calculus.** This is an honors-level alternative to MA 225. The prerequisites are MA 124 or MA 127 or MA 129, and a willingness to work hard. The topics covered are basically the same as in MA 225, but they are covered in more depth and with more emphasis on geometrical insight. Offered spring semester only.

Courses for Majors (see descriptions above):

CAS MA 123	Calculus I
CAS MA 124	Calculus II
CAS MA 127	Enriched Calculus
CAS MA 129	Honors Calculus
CAS MA 213	Basic Statistics and Probability
CAS MA 225	Multivariate Calculus
CAS MA 230	Honors-Level Vector Calculus

### Modern Languages & Comparative Literature

Language, literature, and culture courses are available in German; in Russian; in Chinese, Japanese, and Korean; in Arabic, Hebrew, Persian, and Turkish; in Hindi-Urdu; and in comparative literature. (See the “Romance Studies” section of this guide for courses in French, Italian, Portuguese, Spanish, and Linguistics.)

The department offers:

- A) Language courses to fulfill the College language requirement, and more advanced language courses;
- B) Literature and culture courses marked English translation that are open to freshmen without prerequisite and can be taken toward the humanities divisional requirement, marked “*Carries HU divisional credit*”;
- C) Courses toward the major or minor in comparative literature, Chinese, German, Japanese, and Russian, as well as courses toward minors in Arabic and Hebrew, marked with (M).

A placement test is required of all students wishing to continue the study of a language in which their most recent course was taken in high school or at a college other than Boston University. The German and Hebrew placement tests are online and should be taken before you come to Orientation or otherwise register for your language courses. See p. 6 of this guide for instructions. Information regarding dates and times of additional placement tests is available in Room 103B at 718 Commonwealth Avenue; 617-353-2642.

Students majoring in this department select a balanced program of language, literature, civilization, linguistics, and related courses. Career opportunities for graduates exist in many areas including business, export/import, marketing, teaching, and translating. Students are also well prepared for graduate work.

All students are encouraged to consider studying in Boston University programs and exchange programs in China, Germany, Israel, Japan, Morocco, and Turkey. Programs are available at the language requirement level and for majors and minors through International Programs.

### Literature and Culture Courses for Humanities Divisional Studies Credit

**CAS XL 222 Introduction to Comparative Literature: Western Literature (in English translation).** Introduces basic methods of comparative literary study through close readings of influential texts of the Western tradition from antiquity to present. Topics include genre, translation, appropriation, interpretation, theories of literary production, and effect. All works read in English; no prerequisites. (*Carries HU divisional credit*) (M) 2nd sem.

**CAS XL 223 Introduction to Comparative Literature: Middle Eastern Literature (in English translation).** Introduces basic methods of comparative literary study through close readings of some of the most influential texts of Arabic, Persian, Turkish, and Hebrew literature. Readings may include *The Arabian Nights*, *Shahnameh*, lyric poetry, and novels from the twentieth century. (*Carries HU divisional credit*) (M) 2nd sem.

**CAS XL 224 Introduction to Comparative Literature: East Asian Literature (in English translation).** Introduces basic methods of comparative literary study through close readings of some of the most influential texts of Chinese, Japanese, and Korean literature. Readings may include *The Tale of the Genji*, *Dream of the Red Chamber*, and *Nine-Cloud Dream*. (*Carries HU divisional credit*) (M) 1st sem.

**CAS XL 225 Introduction to Comparative Literature: South Asian Literature (in English translation).** Introduces basic methods of comparative literary study through close readings of some of the most influential texts of South Asia from the classical, medieval, and modern traditions. Readings may include the *Ramayana*, *Gita Govinda*, devotional poetry, and novels from the twentieth century. (*Carries HU divisional credit*) (M) 1st sem.

**CAS LC 250 Masterpieces of Classical Chinese Literature (in English translation).** Panoramic overview of three thousand years of Chinese literature from its beginnings to the threshold of modernity. Discusses masterpieces of one of the world’s oldest continuous traditions in their cultural context and in the context of literatures around the world. (*Carries HU divisional credit*) (M) 1st sem.

**CAS LC 251 Masterpieces of Modern Chinese Literature (in English translation).** Modern Chinese literature tells stories of trauma, accommodation, and resistance. It offers private and public records of tumultuous transitions. This course focuses on great works of transformative importance. Authors include Lu Xun, Wang Meng, and Jin Yong. (*Carries HU divisional credit*) (M) 2nd sem.

**CAS LC 283 Chinese Civilization (in English translation).** An interdisciplinary introduction to Chinese culture, including social life, thought, literature, and fine arts. Emphasis placed on the major cultural and social developments from prehistory to the nineteenth century that have a particular relevance to understanding modern China. (*Carries HU divisional credit*) (M) 1st sem.

**CAS LC 286 Topics in Chinese Culture (in English translation).** Topics focus on particular aspects of Chinese culture such as food, costume, education, religion, philosophy, and film in order to examine Chinese culture from its beginnings to the present. (*Carries HU divisional credit*) (M) 2nd sem.

**CAS LG 250 Masterpieces of German Literature (in English translation).** Introduction to the major works of German literature, emphasizing methods of close reading and the art of critical writing. Essays, plays, fairy tales, poetry, prose by Luther, Goethe, Grimm Brothers, Heine, Nietzsche, Kafka, Thomas Mann, Rilke, Hesse, Christa Wolf. (*Carries HU divisional credit*) (M) 2nd sem.

**CAS LG 282 Marx, Nietzsche, Freud (in English translation).** Study of the three radical and influential German thinkers. Marx’s *German Ideology*, *Communist Manifesto*, *Grundrisse*, *Capital*; Nietzsche’s *Beyond Good/Evil*, *Genealogy of Morals*; Freud’s *Outline*, *Introductory Lectures*, *Civilization and Its Discontents*. (*Carries HU divisional credit*) (M) 1st sem.

**CAS LG 283 The Faust Tradition (in English translation).** Prerequisite: one literature course. Comparative study of the Faust theme, 1500 to present: Marlowe, Goethe, Mann, Gertrude Stein, Jan Svankmajer, others. Transmission and adaptation of literary themes within and between national traditions. Emphasis on close reading and research, use of theory and criticism. (*Carries HU divisional credit*) (M) 2nd sem.

**CAS LH 282 Agnon and Oz: In Search of Identity (in English translation).** The one emerging from the old world of premodern Europe, the other raised in modern Israel, S.Y. Agnon and A. Oz represent the extremes of modern Hebrew fiction. Yet both seek the meaning of being modern in a Jewish context. (*Carries HU divisional credit*) (M) 1st sem.

**CAS LJ 250 Masterpieces of Japanese Literature (in English translation).** An introduction to Japanese literary history. Topics include mythic beginnings, conceptions of nature and death, flowering of a court aesthetic, the writer as hermit-sage, the Tokugawa stage and its love suicides. Use of literary and visual materials. (*Carries HU divisional credit*) (M) 1st sem.

**CAS LJ 251 Modern Japanese Literature (in English translation).** Introduction to modern Japanese literature. Naturalism and its critics, rise of the I-novel, Taishō aestheticism, proletarian literature, postwar and post-recession crises of cultural identity, cell phone novels. Works by Natsume Sōseki, Hayashi Fumiko, Tanizaki Jun'ichirō, Ōe Kenzaburō, and Tsushima Yūko. (*Carries HU divisional credit*) (M) 2nd sem.

**CAS LJ 283 Modern Japanese Culture in Cinema (in English translation).** Major modern Japanese films are interpreted in the light of Japanese culture. Film scripts and the important literary sources are read in English; films are shown with subtitles. (*Carries HU divisional credit*) (M) 2nd sem.

**CAS LK 283 Modern Korean Culture Through Cinema (in English translation).** Introduction to modern Korean culture and society through film from the Korean War (1950–1953) to the present. Discussion and essays on modern Korean life as seen in Korean films. Critical analysis of changes in Korean society. (*Carries HU divisional credit*) 2nd sem.

**CAS LR 250 Classics of Russian Prose (in English translation).** Prose works that define the Russian literary tradition, including Pushkin's *Queen of Spades*, Gogol's *Overcoat*, Turgenev's *Fathers and Sons*, Dostoyevsky's *Notes from the Underground*, Tolstoy's *Anna Karenina*. (*Carries HU divisional credit*) (M) 1st sem.

**CAS LR 285 Tolstoy and Dostoyevsky (in English translation).** Close reading of Tolstoy's *War and Peace* and Dostoyevsky's *The Brothers Karamazov*. Discussion of Russian masters and larger themes: epic tradition from Homer to Tolstoy; continuity of "tragic world view"; the contrasts between the epic mode and the dramatic, and between two opposed views of God and history. (*Carries HU divisional credit*) (M) 1st sem.

**CAS LT 281 Istanbul at the Crossroads (in English translation).** The image of the city of Istanbul in novels, autobiography, short story, poetry, as well as music videos and popular films. Themes include modernization, urbanization, isolation, cosmopolitanism, and the struggle between East and West. (*Carries HU divisional credit*) (M) 2nd sem.

**CAS LY 284 Arabs Write War: Poetry, Prose, and Drama Since 1948 (in English translation).** Depiction of recent wars (may include 1948, 1967, Lebanese Civil War, 1991 Gulf War, Iraq War, "war on terror") in Arabic novels, poems, plays, and memoirs. (*Carries HU divisional credit*) (M) 1st sem.

**CAS LZ 280 Persian Epic and Romance (in English translation).** The continuity of Persian literary traditions from medieval to modern times. Reading of one of the narrative cycles from the tenth-century Persian national epic, *Shahnameh* ("The Epic of Kings"); Sufi allegorical tales; romances; and the modern novel *King of the Benighted*. (*Carries HU divisional credit*) (M) 2nd sem.

**CAS LZ 281 Rumi and Persian Sufi Poetry (in English translation).** Introduction to the Persian Sufi poet Rumi's narrative and lyric writings. Beginning with an introduction to Islamic mysticism, studies the innovative aspects of Rumi's poetry and the problem of profane vs. sacred love. All readings in English translation. (*Carries HU divisional credit*) (M) 1st sem.

Note on divisional studies: The following literature and culture courses, when offered, may also be taken for humanities divisional credit by qualified students with advisor's approval:

Comparative Literature: CAS XL 254, 281, 285, 315, 320, 351, 356, 382, 383, 430, 441, 470, 520, 540, 550

Arabic: CAS LY 281–283, 350, 441, 470

Chinese: CAS LC 281–287, 450, 470

German: CAS LG 280, 287, 452–456, 461, 463, 464, 470

Hebrew: CAS LH 250, 280, 283, 284, 350, 351, 453

Japanese: CAS LJ 350, 451, 480, 481

Russian: CAS LR 350, 351, 451, 452, 455, 456, 458

Note: All of the courses listed *below* are offered in the first semester unless otherwise indicated.

#### Arabic

**CAS LY 111 Elementary Modern Arabic I.** The essentials of standard Arabic, the idiom used in public communications throughout the Arab world. Listening, speaking, reading, and writing.

**CAS LY 112 Elementary Modern Arabic II.** Prerequisite: LY 111.

**CAS LY 139 Intensive First-Year Arabic for Heritage Learners.** Intensive first-year Arabic for students already knowing the Arabic alphabet and possessing some colloquial Arabic conversation skills. Reading, writing, speaking, and comprehension. One semester covers all material taught in CAS LY 111 and LY 112. Cannot be taken for credit in addition to CAS LY 111 or LY 112.

**CAS LY 211 Second-Year Modern Arabic I.** Prerequisite: LY 112, LY 139, or placement test results. Continues the process of presenting the basic structures of modern Arabic.

**CAS LY 212 Second-Year Modern Arabic II.** Prerequisite: LY 211 or placement test results.

**CAS LY 214 Levantine Arabic.** Prerequisite: LY 112 or equivalent. (M) 2nd sem.

**CAS LY 303 Third-Year Modern Arabic I.** Prerequisite: LY 212 or placement test results. Advanced reading, composition, grammar review, listening skills, and conversation in Modern Standard Arabic as well as major dialects such as the Cairine or the Gulf dialect. (M)

**CAS LY 350 Introduction to Arabic Literature.** Prerequisite: CAS LY 303 or equivalent. Selection of Arabic poetry, short stories, novels, and drama. Focus on development and refinement of Arabic reading strategies, literary analysis of short passages, and writing and speaking skills. Readings and assignments in Arabic and English. (*Carries HU divisional credit*) (M)

**CAS LY 403 Advanced Arabic I.** Prerequisite: LY 304 or consent of instructor. Advanced-level reading and discussion in Modern Standard Arabic of media reports, scholarly articles, modern literary texts, and excerpts from classical writings. Student compositions and presentations in Arabic on topics related to readings. (M)

## Chinese

**CAS LC 111 First-Semester Chinese.** In this introductory Mandarin course, the oral approach is stressed. Also included are the writing of Chinese characters and some reading.

**CAS LC 112 Second-Semester Chinese.** Prerequisite: LC 111.

**CAS LC 116 Chinese Reading and Writing I.** An intensive course covering first-year Chinese in one semester for students who speak Mandarin fluently but possess limited or no reading and writing skills. Emphasis on reading and writing and analysis of grammar. Lab required. Four hours weekly.

**CAS LC 211 Third-Semester Chinese.** Prerequisite: LC 112. Review of structure and grammar; practice in conversation, writing, and reading.

**CAS LC 212 Fourth-Semester Chinese.** Prerequisite: LC 211.

**CAS LC 216 Chinese Reading and Writing II.** Prerequisite: LC 116. An intensive course covering second-year Chinese in one semester for students who have completed LC 116 or students who speak Mandarin fluently and possess some reading and writing skills. Emphasis on reading and writing and analysis of grammar. Lab required. Three hours weekly. Satisfactory completion of CAS LC 216 fulfills the CAS language requirement. 2nd sem.

**CAS LC 250 Masterpieces of Classical Chinese Literature (in English translation).** See description above, p. 49. (Carries HU divisional credit) (M)

**CAS LC 251 Masterpieces of Modern Chinese Literature (in English translation).** See description above, p. 49. (Carries HU divisional credit) (M) 2nd sem.

**CAS LC 283 Chinese Civilization (in English translation).** See description above, p. 49. (Carries HU divisional credit) (M)

**CAS LC 286 Topics in Chinese Culture (in English translation).** See description above, p. 49. (Carries HU divisional credit) (M) 2nd sem.

**CAS LC 311 Third-Year Modern Chinese I.** Prerequisite: LC 212 or 216. (M)

## Comparative Literature

**CAS XL 222 Introduction to Comparative Literature: Western Literature (in English translation).** See description above, p. 49. (Carries HU divisional credit) (M) 2nd sem.

**CAS XL 223 Introduction to Comparative Literature: Middle Eastern Literature (in English translation).** See description above, p. 49. (Carries HU divisional credit) (M) 2nd sem.

**CAS XL 224 Introduction to Comparative Literature: East Asian Literature (in English translation).** See description above, p. 49. (Carries HU divisional credit) (M)

**CAS XL 225 Introduction to Comparative Literature: South Asian Literature (in English translation).** See description above, p. 49. (Carries HU divisional credit) (M)

## German

**CAS LG 111 First-Semester German.** For beginners only or by placement test results. Practice in speaking. Essentials of German grammar.

**CAS LG 112 Second-Semester German.** Prerequisite: LG 111 or placement test results. Continues the LG 111 basic text.

**CAS LG 211 Third-Semester German.** Prerequisite: LG 112 or placement test results. Practice in speaking through reading materials, writing, and vocabulary building.

**CAS LG 212 Fourth-Semester German.** Prerequisite: LG 211 or placement test results. For students who wish to develop active use of German in both speaking and reading.

**CAS LG 250 Masterpieces of German Literature (in English translation).** See description above, p. 49. (Carries HU divisional credit) (M) 2nd sem.

**CAS LG 282 Marx, Nietzsche, Freud (in English translation).** See description above, p. 49. (Carries HU divisional credit) (M)

**CAS LG 283 The Faust Tradition (in English translation).** See description above, p. 50. (Carries HU divisional credit) (M) 2nd sem.

**CAS LG 303 Composition and Conversation I.** Prerequisite: LG 212 or placement test results. Improve speaking, reading, and writing skills through various texts. Regular compositions and oral reports on contemporary topics in German. (M)

**CAS LG 310 Translation Workshop.** Prerequisite: LG 303 or equivalent. Advanced German language training. Pleasures and frustrations of different languages' and cultures' incommensurability are investigated through systematic practice in translating between German and English. Translation as technical skill, creative performance. Variety of subject areas and genres: literature, media, politics, humor. (M)

**CAS LG 325 Modern German History and Culture through Film.** (M) 2nd sem.

**CAS LG 350 Introduction to German Literature.** Prerequisite: LG 303 or equivalent. Masterpieces of German literature representing major eras and genres from the eighteenth century to the present. Practical introduction to methods of close reading and literary interpretation; class discussion. (Carries HU divisional credit) (M)

## Hebrew

**CAS LH 111 First-Semester Hebrew.** For beginners only or by results of placement test. Basic skills of reading, writing, understanding, and expression.

**CAS LH 112 Second-Semester Hebrew.** Prerequisite: LH 111 or placement test results.

**CAS LH 117 Biblical Hebrew I.** Introduction to Biblical Hebrew, including balanced treatment of vocabulary, grammar, and vocalization. No prior study of modern or Biblical Hebrew presumed. Does not count toward CAS language requirement.

**CAS LH 139 Intensive First-Year Hebrew.** Prerequisite: placement test results. Covers all material in CAS LH 111 and 112. Main patterns of grammar, conversation, and written exercises. If you have taken LH 111, 112, or a more advanced college-level course, you cannot take this course for credit.

**CAS LH 211 Third-Semester Hebrew.** Prerequisite: LH 112 or placement test results. Practice in speaking through reading materials, writing, and vocabulary building.

**CAS LH 282 Agnon and Oz: In Search of Identity (in English translation).** See description above, p. 50. *(Carries HU divisional credit)* (M)

**CAS LH 311 Fifth-Semester Hebrew.** Prerequisite: LH 212 or placement test results. Reading in selected literary works, and current journalism to acquire mastery of language for academic, political, literary, and social uses. (M)

**CAS LH 350 Hebrew Narrative: Biblical and Modern.** Prerequisite: LH 212 or placement test results. Narrative techniques in the Bible and in modern Hebrew texts. Selections from Genesis II, Samuel, and the book of Jonah, as well as short stories by Agnon, Appelfeld, Yehoshua, and others. *(Carries HU divisional credit)* (M)

**CAS LH 351 Styles and Meanings of Hebrew Poetry.** Prerequisite: LH 312 or placement test results. *(Carries HU divisional credit)* (M) 2nd sem.

#### Hindi-Urdu

**CAS LN 111 First-Semester Hindi-Urdu.** Elementary grammar, conversation, reading, writing.

**CAS LN 211 Third-Semester Hindi-Urdu.** Prerequisite: LN 112 or placement test results. Development of communicative skills acquired in the first year. Readings in Indian civilization. Practice in conversational Hindi-Urdu. Writings exercises involving more complex grammatical patterns.

#### Japanese

**CAS LJ 111 First-Semester Japanese.** Classroom and laboratory drills to develop fluency. The structure of the Japanese language as a source of insights into Japanese culture.

**CAS LJ 112 Second-Semester Japanese.** Prerequisite: LJ 111.

**CAS LJ 211 Third-Semester Japanese.** Prerequisite: LJ 112. Oral and written idiomatic usage are stressed. Introduction to modes of expression in social situations and in written material. Oral drills and practice in conversation, writing, and reading characters.

**CAS LJ 212 Fourth-Semester Japanese.** Prerequisite: LJ 211.

**CAS LJ 250 Masterpieces of Japanese Literature (in English translation).** See description above, p. 50. *(Carries HU divisional credit)* (M)

**CAS LJ 251 Modern Japanese Literature (in English translation).** See description above, p. 50. *(Carries HU divisional credit)* (M) 2nd sem.

**CAS LJ 283 Modern Japanese Culture in Cinema (in English translation).** See description above, p. 50. *(Carries HU divisional credit)* (M) 2nd sem.

**CAS LJ 303 Third-Year Modern Japanese.** Prerequisite: LJ 212 or permission of instructor. Reading modern texts. Development of writing and speaking skills. Regular compositions required. (M)

**CAS LJ 350 Readings in Modern Japanese Fiction.** Prerequisite: LJ 212 or placement test results. Readings in modern fiction and essays, from Akutagawa to Murakami, to deepen knowledge of Japanese language and encounter Japanese literature in its contemporary context. Readings and discussions in Japanese. *(Carries HU divisional credit)* (M)

#### Korean

**CAS LK 111 First-Semester Korean.** For beginners only. Elementary conversation, grammar, reading, and writing.

**CAS LK 112 Second-Semester Korean.** Prerequisite: LK 111 or placement test results.

**CAS LK 116 First-Year Accelerated Korean.** Accelerated course covering first-year Korean in one semester, designed for students who can understand spoken Korean but who have little or no practice in reading or writing. Cannot be taken for credit in addition to LK 111 or 112.

**CAS LK 211 Third-Semester Korean.** Prerequisite: LK 112 or placement test results. Development of communicative skills acquired in the first year, readings in Korean, and writing exercises.

**CAS LK 283 Modern Korean Culture Through Cinema (in English translation).** See description above, p. 50. *(Carries HU divisional credit)* 2nd sem.

**CAS LK 311 Fifth-Semester Korean.** Prerequisite: LK 212 or consent of instructor. Readings in modern literary writings and journalism. Essays and discussions on issues in politics, society, and culture. Vocabulary-building, advanced grammar, and enhancement of speaking ability.

#### Persian

**CAS LZ 111 First-Semester Modern Persian.** Introduction to spoken and written Persian and to fundamentals of Persian grammar, with oral drills and written exercises.

**CAS LZ 211 Third-Semester Modern Persian.** Prerequisite: LZ 112. Development of communicative skills acquired in the first year.

**CAS LZ 280 Persian Epic and Romance (in English translation).** See description above, p. 51. *(Carries HU divisional credit)* 2nd sem.

**CAS LZ 281 Rumi and Persian Sufi Poetry (in English translation).** See description above, p. 51. *(Carries HU divisional credit)*

## Russian

**CAS LR 111 First-Year Russian I.** For beginners only. Class time is divided equally among grammar, written work, and oral exercises.

**CAS LR 211 Second-Year Russian I.** Prerequisite: LR 112. Grammar review along with special emphasis on the development of reading and conversational skills.

**CAS LR 250 Classics of Russian Prose (in English translation).** See description above, p. 50. *(Carries HU divisional credit)* (M)

**CAS LR 285 Tolstoy and Dostoyevsky (in English translation).** See description above, p. 50. *(Carries HU divisional credit)* (M)

**CAS LR 303 Third-Year Russian: Reading, Grammar Review, and Conversation.** Prerequisite: LR 212. Reading of original, unabridged Russian prose and poetry. Intensive work on improvement of fluency and quality of expression; special attention to pronunciation. (M)

**CAS LR 350 Introduction to the Analysis of Russian Prose Texts.** Prerequisite: LR 212. Introduction to the great prose style of Russian literature. Pushkin, Gogol, Dostoyevsky, Turgenev, Tolstoy, and Chekhov. Techniques of interpretation and close reading of short works. *(Carries HU divisional credit)* (M) 2nd sem.

## Turkish

**CAS LT 111 First-Semester Turkish.** Introduction to spoken and written Turkish and to fundamentals of Turkish grammar, with oral drills and written exercises.

**CAS LT 211 Third-Semester Turkish.** Prerequisite: LT 112 or consent of instructor. Further, intermediate-level, development of Turkish language skills through textbooks, authentic readings including literary works, Internet-based exercises, and the use of Turkish audio and visual materials.

**CAS LT 281 Istanbul at the Crossroads (in English translation).** See description above, p. 50. *(Carries HU divisional credit)* 2nd sem.

**CAS LT 303 Advanced Turkish I.** Prerequisite: LT 212 or consent of instructor. Advanced Turkish, concentrating on all four communicative skills, diverse registers, and idioms. Exposure to literature, media, and other cultural materials.

## Music

The study of music usually emphasizes musical performance, music theory, or music history. At Boston University, students whose primary goal is the development of performance skills within a broad liberal program attend the College of Fine Arts. The major in music in the College of Arts & Sciences focuses on the theory and history of music, although students may include a reasonable number of applied music or performance courses for degree credit, or combine the major in music with a minor in music performance. The faculty of the College of Fine Arts School of Music offers all courses for the major in music. It includes introductory courses in the theory of music and seven advanced courses in theory, instrumentation, analysis, and music history. It also requires five related courses from the following: history (with approval of the advisor), history of art & architecture, philosophy; French and German above the 212 level, or the equivalent in another language.

**CFA MU 111, 112 Elementary Music Theory I & II (for non-majors).** A two-semester course for students not desiring a two- or three-year theory program. The elements of music theory, notation, basic harmony, chord progression, and ear training. Not for CAS divisional credit.

Course Primarily for Majors:

**CFA MU 101 Music Theory I.** Basic music vocabulary. Elements of tonal music approached from hearing, sight-singing, keyboard, writing, and analytical work. Basic counterpoint in two, three, and four voices. Four class meetings and one additional tutorial hour to be arranged. A placement exam is required for all music majors registering for CFA MU 101. This exam will be offered the week of August 29 at the College of Fine Arts, 855 Commonwealth Avenue. (MU 101 is a 3-credit course; majors should also register for MU 107, a 1-credit course on ear training and sight-singing.)

Courses for Non-Majors:

**CAS MU 117 Music Appreciation I.** Introduction to music through study of representative styles and forms in the history of Western music. Music as a changing “language” of human communication. From Gregorian chant through Mozart. No prior musical experience required. Lectures, in-class performances. *(Carries HU divisional credit)* 1st sem.

**CAS MU 118 Music Appreciation II.** Introduction to music through study of representative styles and forms in the history of Western music. Music as a changing “language” of human communication. From Beethoven to the present. No prior musical experience required. Lectures, in-class performances. Continues but does not presuppose CAS MU 117. *(Carries HU divisional credit)* 2nd sem.

**CAS MU 229 Masterpieces of Opera.** History of opera from late-Renaissance experiment through Handel, Mozart, Verdi, Wagner, Puccini, Berg, Stravinsky, Britten, Harbison. Emphasis on opera as a complex, multimedia genre continually redefining itself, its (often) noble aims conflicting with financial realities, inflatable egos, a fickle public. *(Carries HU divisional credit)* 2nd sem.

**CAS MU 230 Mozart.** Study of Mozart’s work in major genres—sonata, symphony, quartet, concerto, opera—viewed in the context of rapidly changing eighteenth-century political and intellectual currents: equality vs. absolutism, free-market economy vs. aristocratic patronage, Freemasonry vs. the Church. Origins of the “Amadeus” myths. 1st sem.

## Muslim Studies

The Institute for the Study of Muslim Societies & Civilizations offers a choice of two interdisciplinary minors, one with a social science focus (minor in Muslim societies) and the other with a humanities focus (minor in Muslim cultures). Students interested in pursuing either of these minors are strongly encouraged to begin or continue study of Arabic, Persian, or Turkish. The minor in Muslim cultures requires completion of an Arabic, Persian, or Turkish language course at the fourth-semester level or higher.

## Neuroscience

The interdisciplinary major in neuroscience engages students in the rapidly evolving study of brain and behavior. Neuroscience in the College of Arts & Sciences is a collaborative program spanning the faculties of biology, mathematics & statistics, and psychology. Five core courses are required, ideally taken in sequence beginning in the fall semester: NE 101 Introduction to Neuroscience, NE 102

Introduction to Cellular and Molecular Biology, NE 202 Introduction to Cognitive Neuroscience, NE 203 Principles of Neuroscience with Lab, and NE 204 Introduction to Computational Models of Brain and Behavior. Upper-level electives, including research opportunities in faculty labs, allow majors to design their own focus on cellular and systems, cognitive, and/or computational approaches.

Interested students in their first year should also begin to take the basic science courses that will provide a strong foundation for the study of neuroscience. Required for the major are two courses in chemistry (CAS 101/102 or 109/110 or 111/112), two courses in physics (CAS PY 105/106 or 211/212 or 241/242), one year of calculus (MA 123/124 or the one-semester equivalent of MA 127 or MA 129), and a semester of statistics (CAS PS 211, which may be replaced by a two-course sequence: CAS MA 115/116 or MA 213/214).

**CAS NE 101 Introduction to Neuroscience.** An introduction to the biological basis of behavior and cognition. Includes theoretical and practical foundations rooted in psychology, biology, neuropharmacology, and clinical sciences (e.g., neurology and neuropsychiatry). Neuroethical dilemmas are highlighted and integrated when relevant to discussion topics. 1st sem.

**CAS NE 102 Introduction to Cellular and Molecular Biology.** A cellular and molecular approach to nervous system function. Includes molecular and genetic basis of neurons; structure and function of ion channels, synapses, and glia; mechanisms of signal transduction; neuroendocrinology; and sensory systems and transduction. Project labs focused on anatomy and physiology of neurons. 2nd sem.

## Philosophy

Philosophy is not just another subject among many but, traditionally, the very core of a liberal arts education. Its task is to inquire into the sense of all that we study and do, training students to think clearly about questions basic to all subjects: what is true, what is valid, what is worthwhile, what is beautiful? Philosophical inquiry, informed by the history of deepest human reflection, seeks to deal with the most pressing questions of our time. Freshman courses are rigorous and stimulating introductions designed to serve both as a first step to further, specialized study for those who wish to undertake it and as a foundation in philosophy for those seeking to pursue other interests.

Students may major in philosophy, minor in philosophy, or choose a joint major with one of the following fields: classics, linguistics, mathematics, physics, political science, psychology, or religion. They may also design an individual specialization within the requirements of the major.

Philosophy has proved an excellent major for liberal studies directed toward admission to law school and other professional schools, or toward careers in business, the health professions, journalism, and teaching. It is also one of the most personally rewarding fields of study.

Any of the following courses satisfies the prerequisite for admission to advanced courses carrying credit toward the major or minor.

**CAS PH 100 Introduction to Philosophy.** Introduction to the nature of philosophical activity through a careful study of selected great works such as Lao Tze's *Tao Te Ching*, Plato's *Apology*, Descartes's *Meditations*, Pascal's *Pensées*, and Nietzsche's *Thus Spoke Zarathustra*. (Carries HU divisional credit) Either sem.

**CAS PH 110 Great Philosophers.** A comparative introduction to the life and thought of preeminent philosophers from classical times through the modern era. (Carries HU divisional credit) 1st sem.

**CAS PH 150 Introduction to Ethics.** Who ought we to be, what ought we to do, what ought we to strive for? Examination of our obligations to ourselves, to other humans, and to the natural world in light of ethical theory and contemporary problems. (Carries HU divisional credit) Either sem.

**CAS PH 159 Philosophy and Film.** An introduction to philosophy via reflecting on philosophical issues connected with film as a medium. Topics include general aesthetics, representation, emotion and narrative, genre, fictionalism, and whether film can be immoral. (Carries HU divisional credit) 2nd sem.

**CAS PH 160 Reasoning and Argumentation.** A systematic study of the principles of both deductive and informal reasoning, intended to enhance students' reasoning skills, with emphasis on reasoning and argumentation in ordinary discourse. (Carries HU divisional credit) Either sem.

Expanded divisional studies list: With advisor's approval and all relevant prerequisites, students may take any 100- or 200-level CAS PH course for humanities divisional credit.

## Physics

The Boston University Department of Physics is located in the Metcalf Science Center at 590 Commonwealth Avenue. Research facilities are represented here for all branches of physics: biophysics, high-energy, nuclear, condensed matter, and polymer physics. Early in their academic careers, students are strongly encouraged to join a research group. Such associations often lead to active collaborations and introduce our students to modern research techniques. Students majoring in physics have two curricular options: Option I, which gives students the flexibility to combine physics with another focus area in an interdisciplinary program, and Option II, which is intended to prepare students for the study of physics or a closely related subject in graduate school. The department also offers two joint majors: physics and astronomy, and physics and philosophy. Freshmen in physics have the option of participating in a one-credit seminar for physicists during their first semester.

Students with an undergraduate background in physics have pursued careers in research, education, law, medicine, economics, publishing, oceanography, computer science, environmental protection, and business, as well as engineering and industrial research. For students interested in these and other areas of research and technology, an undergraduate physics major is an excellent general background for future specialization.

Courses for Non-Science Majors:

**CAS PY 100 Physics of the Twentieth Century and Beyond.** Prerequisite: one year of high school physics; high school algebra. A historical survey of modern physics, focusing on quantum mechanics and relativity as applied to the microworld (subatomic physics) and the macroworld (the early universe). Covers exotic phenomena from quarks to quasars, from neutrinos to neutron stars. (Carries NS divisional credit) 1st sem.

**CAS PY 103 Cinema Physica.** Conceptual introduction to physical law as portrayed in film. Quantitative understanding using simple estimates, elementary physics, and dimensional analysis. Kinematics; forces; conservation laws; heat and temperature; atoms, molecules, and materials. Sample films: *Speed*; *Armageddon*; *Independence Day*; *X-Men*; *The Sixth Sense*; *Contact*. (Carries NS divisional credit) (lab) 2nd sem.

**CAS PY 231 The Physics in Music.** Prerequisite: musical performance experience or consent of instructor (no physics prerequisite). An introduction to musical acoustics, which covers vibrations and waves in musical systems, intervals and the construction of musical scales, tuning and temperament, the percussion instruments, the piano, the string, woodwind and brass instruments, room acoustics, and the human ear and psychoacoustical phenomena important to musical performance. Some aspects of electronic music are also discussed. (Carries NS divisional credit) (lab) 2nd sem.

## Introductory Course Sequences:

**CAS PY 105 (both semesters), 106 (both semesters) Elementary Physics.** Introduction to the discipline of physics and the patterns of discovery through a laboratory that illustrates and amplifies the principles discussed in lectures and in discussion sections. The student is also asked to solve many concrete problems. The course presupposes a knowledge of algebra and trigonometry, but not of calculus. It satisfies medical school entrance requirements, as well as those of other professional schools calling for a physics laboratory course, and it meets the physics requirement for biology majors. *(PY 105 and 106 carry NS divisional credit) (lab)*

**CAS PY 211 (fall semester), 212 (spring semester) General Physics.** Treats the same topics as CAS PY 105, 106 but at a more advanced level. Calculus, a prerequisite, is used extensively. Satisfies physics requirement for chemistry, mathematics, earth sciences, and biology majors and for engineering students. *(PY 211 and 212 carry NS divisional credit) (lab)*

**CAS PY 241 (fall semester), 242 (spring semester) Principles of General Physics I, II.** This calculus-based introduction to principles and methods of physics covers all of classical and modern physics in two semesters. Students who enroll will normally have completed the equivalent of one semester of college calculus. Its emphasis on topics relevant to medical sciences makes this sequence ideal for premedical students. *(PY 241 and 242 carry NS divisional credit) (lab)*

**CAS PY 251 (fall semester), 252 (spring semester) Principles of Physics.** Covers a smaller range of topics but with more depth than CAS PY 211 and is usually followed in the sophomore year by CAS PY 354 Modern Physics. Calculus must be taken concurrently; some calculus concepts are introduced in a physics context. Laboratory and problem sessions are integral parts of the course. A strong mathematical background is desirable. Satisfies physics requirement for physics, astronomy, and chemistry majors and engineers (as well as the requirements satisfied by CAS PY 211, 212). *(PY 251 and 252 carry NS divisional credit) (lab)*

Physics majors in their first semester also enroll in CAS PY 195, a one-credit freshman seminar.

**CAS PY 195 Freshman Seminar for Physicists.** Prerequisite: freshmen with declared majors in Physics. Seminar where freshman physics majors learn successful strategies for studying physics and become familiar with BU's policies, procedures, resources, and extracurricular activities. Exploration of research and career opportunities through invited speakers, book discussions, and laboratory tours.

## Political Science

Political science explores the concerns and issues that animate public life. Using both humanistic and scientific approaches, it studies how political communities attempt to reconcile the claims of justice, power, liberty, and authority. Drawing on history, law, economics, psychology, sociology, and philosophy, political science shares the traditional aims of liberal arts education while attempting to come to grips with the major public issues of our time.

The undergraduate program in political science at Boston University encompasses the subfields of American politics, public policy, political theory, international relations, and comparative politics. Students typically concentrate in one or two subfields, but they are also free to explore course offerings in other areas of the discipline. Juniors have the opportunity to participate in the Washington Internship Program, the London Internship Program, and other academic semesters overseas offered by Boston University International Programs.

Upon graduation, majors in political science qualify for careers in both the public and private sectors; local, state, and federal government; business; education; journalism; international organizations; and practical politics. They also pursue postgraduate study in law and public administration as well as graduate study in political science and international affairs.

A major in political science requires a total of 11 political science courses. Freshmen who plan to major in political science should take at least one of the following five core courses in the freshman year:

<b>CAS PO 211</b>	<b>Introduction to American Politics</b>
<b>CAS PO 241</b>	<b>Introduction to Public Policy</b>
<b>CAS PO 251</b>	<b>Introduction to Comparative Politics</b>
<b>CAS PO 271</b>	<b>Introduction to International Relations</b>
<b>CAS PO 291</b>	<b>Introduction to Political Theory</b>

A total of three core courses and eight more advanced courses or seminars are required for the major.

**CAS PO 211 Introduction to American Politics.** Study of the national political structure; emphasis on Congress, the executive, administrative agencies, and the judiciary. Relations among formal institutions, parties, and interest groups. Designed primarily for majors. *(Carries SS divisional credit) 1st sem.*

**CAS PO 241 Introduction to Public Policy.** Analysis of several issue areas including civil rights, school desegregation, welfare and social policy, education and urban housing. Characteristics of policy systems in each issue area are analyzed to identify factors that may affect the content and implementation of public policies. *(Carries SS divisional credit) 2nd sem.*

**CAS PO 251 Introduction to Comparative Politics.** Examines different patterns of political development and contemporary politics in Western Europe, Latin America, Africa, and the former Soviet bloc. Introduces the comparative method in political science and competing theories of political development and political change. *(Carries SS divisional credit) 1st sem.*

**CAS PO 271 Introduction to International Relations.** The study of basic factors in international relations. Includes surveys of the Western state system, the concept of balance of power, nationalism, imperialism, the roles of international law and organizations, and the structure of the international political economy. Also offered as CAS IR 271. *(Carries SS divisional credit) Either sem.*

**CAS PO 291 Introduction to Political Theory.** Examines classic and current views on the nature of authority, liberty, and justice. Topics include civil disobedience, freedom of expression, abortion rights, and affirmative action. *(Carries SS divisional credit) 2nd sem.*

A new course, open to all CAS students, will be offered this fall together with a public lecture series to mark the tenth anniversary of the terrorist attacks of September 11, 2001:

**CAS PO 309 America at War: The Response to 9/11.** Investigates America's wars against terrorism, focusing on Afghanistan, Iraq, and Pakistan, from 9/11 to the present. Traces the decisions that led to the wars, the military strategies employed, and the political ramifications of these conflicts in the U.S. and abroad.

## Psychology

Psychology involves the systematic study of the behavior of organisms. The Department of Psychology at Boston University emphasizes the role of scientific inquiry in the advancement of psychological knowledge in a wide variety of areas including cognition, learning, perception, physiological process, personality, language, abnormal behavior, and social process. A major in psychology prepares a

student for graduate study in psychology or, combined with appropriate related courses, for entrance into the study of medicine, law, and other professions.

While many psychology majors go on to graduate programs, others successfully pursue careers in a variety of fields. Those most directly related to the study of psychology include working in centers for learning disabled individuals, drug-alcohol and other crisis centers, research laboratories, organizational settings, and many areas of government. It is important to realize that a major in psychology is part of a broad liberal education rather than training for a particular job.

The department's introductory-level course, CAS PS 101, awards divisional studies credit and serves as a prerequisite to entry into the major.

**CAS PS 101 General Psychology.** Basic introduction to the field of psychology. Topics include theories and findings governing learning, memory, perception, development, personality, social and abnormal psychology. Various teaching formats are used; three hours of large lecture and one-hour discussion section or three hours of small lecture with no discussion sections. Specific requirements vary with instructor. Students are expected to participate as subjects in psychological studies. (*Carries SS divisional credit*) Either sem.

## Religion

Knowledge of the major religions of humankind is essential to a liberal education, whether one aims eventually to enter law, medicine, technology, education, or management. In an increasingly pluralistic society such as ours, a basic understanding of the contemporary beliefs and practices of American religious life is required of a good citizen. In an increasingly globalized economy, acquaintance with the religions of Africa and Asia also makes practical sense. But, for some students, investigating the religions of humankind is impelled by a profoundly personal search for direction and meaning in life. For other students, the study of religion is motivated by sheer intellectual curiosity.

Whatever motives may lead students to take courses in religious studies, they will find offerings by the faculty in the Department of Religion that will inform them about the major religions of Asia, Africa, Europe, and the Americas; that will introduce them to varieties of traditional religious practice, such as Chinese medicine; and that will equip them thoughtfully and critically to build a framework for cross-cultural and multidisciplinary inquiry into what is—for good or ill—one of the most persistent, widespread, and powerful forces in human history and contemporary life.

The major in religion requires a total of 10 courses. All majors must take CAS RN 200 Theoretical Approaches to the Study of Religion, ideally in their sophomore year. Two 100-level courses are also required. Majors are strongly encouraged to fulfill the 100-level requirements with CAS RN 103 and RN 104. Alternatively, they may take one course in "Religious Traditions" (RN 103 or RN 104) and one in "Comparative Themes" (CAS RN 100, 101, 102, 106, 111, 121, or 122).

**CAS RN 100 Introduction to Religion.** Religion matters. It makes meaning and provides structure to life, addressing fundamental questions about body, spirit, community, and time. But what is it? How does it work in our world? This course explores religion in ritual, philosophical, experiential, and ethical dimensions. (*Carries HU divisional credit*) Either sem.

**CAS RN 101 The Bible.** This course is intended to cultivate biblical literacy by focusing on the Bible as a foundational document of Western civilization. Students will also explore biblical themes in Western literature and art. (*Carries HU divisional credit*) 1st sem.

**CAS RN 102 Sacred Journeys.** An introduction to the comparative study of religion through images, travelers' accounts, and mystical reflection on the theme of the sacred journey in reli-

gious quest in Native American traditions, Judaism, Christianity, Hinduism, and Buddhism. (*Carries HU divisional credit*) 1st sem.

**CAS RN 103 Religions of the World: Eastern.** Study of Hinduism, Buddhism, Taoism, Confucianism, and Shinto. Focus on the worldview of each tradition and the historical development of that worldview. (*Carries HU divisional credit*) Either sem.

**CAS RN 104 Religions of the World: Western.** Continues but does not presuppose RN 103. Study of Judaism, Christianity, Islam. Introduction to the development, thought, practices, and leaders of these religions. (*Carries HU divisional credit*) Either sem.

**CAS RN 106 Death and Immortality.** Examines death as religious traditions have attempted to accept, defeat, deny, or transcend it. Do we have souls? Do they reincarnate? Other topics include cremation, ancestor worship, apocalypse, alchemy, AIDS, near-death experiences, other-world cosmologies. 2nd sem.

**CAS RN 122 Religion in America II.** A survey of the history of religion in the United States from the Civil War to the present, focusing on a series of religious controversies that highlight the pluralistic and conflictive nature of American religious history. 1st sem.

**CAS RN 202 From Jesus to Christ: The Origins of Christianity.** Places the figure of Jesus of Nazareth within his contemporary religious and social setting, Roman Palestine in the period of the Late Second Temple; and accounts for the origins and growth of the movements that came to form around the memory of his message. (*Carries HU divisional credit*) 2nd sem.

**CAS RN 206 Sacred Texts of World Religions.** Introduction to sacred texts in world religions, investigating the ways sacred books express, interpret, and make possible religious experience. (*Carries HU divisional credit*) 1st sem.

Expanded divisional studies list: With advisor's approval and all relevant prerequisites, interested students may take the following courses, when offered, for humanities divisional credit: any 100-level or 200-level RN course, RN 301, RN 307, RN 323, RN 340, RN 341, RN 384, RN 396, or RN 429.

## Romance Studies

Language, literature, and culture courses are available in French, Italian, Portuguese, and Spanish. The Department of Romance Studies is also home to the undergraduate program in linguistics.

The department offers:

- A) Language courses to fulfill the College language requirement and more advanced language courses;
- B) Literature and linguistics courses, both in English and in the foreign language, that can be taken toward the humanities divisional requirement, marked "Carries HU divisional credit";
- C) Literature and civilization courses marked "English translation" that are open to freshmen without prerequisites (most other literature courses and advanced language courses are conducted in the foreign language);
- D) Courses toward majors and minors in French language & literature, Hispanic language & literatures, Italian studies, linguistics, and linguistics & philosophy, marked with (M).

A placement test is required of all students wishing to continue their study of a language in which their most recent course was taken in high school or at a college other than Boston University. French, Italian, and Spanish placement tests are online and should be taken before you come to Orientation or otherwise register for your language courses. See p. 6 of this guide for instructions. Information regarding dates and times of additional placement exams is available in the departmental reception office in Room 103 at 718 Commonwealth Avenue; 617-353-2642.

Students majoring or minoring in this department select a balanced program of language, literature, civilization, linguistics, and related courses. Career opportunities for graduates exist in many areas, including business, export/import, marketing, teaching, and translating. Students are also well prepared for graduate work.

All students are encouraged to consider studying in Boston University programs in Argentina, Ecuador, France, Guatemala, Italy, Peru, Spain, and Switzerland. Programs are available at the language requirement level and for majors and minors through BU International Programs.

#### Literature and Linguistics Courses for Humanities Divisional Studies Credit

**CAS LI 250 Masterpieces of Modern Italian Literature (in English translation).** Major works of the nineteenth and twentieth centuries. Novels, verse, drama. Authors include Leopardi, Manzoni, Pirandello, Svevo, Montale, Pavese, Calvino. (*Carries HU divisional credit*) (M) 2nd sem.

**CAS LX 240 Great Linguists.** Introduction to fundamental questions in the study of natural languages from a historical perspective, addressed through reading and discussing works by prominent linguists, including Saussure, Sapir, Jespersen, and Chomsky. (*Carries HU divisional credit*) (M) 2nd sem.

**CAS LX 250 Introduction to Linguistics.** Properties that languages share and how languages differ with respect to structure (sound system, word formation, syntax), expression of meaning, acquisition, variation, and change; cultural and artistic uses of language; comparison of oral, written, and signed languages. (*Carries HU divisional credit*) (M) Either sem.

**CAS LF 350 Introduction to Analysis of French Texts.** Prerequisite: LF 303 or equivalent. Development of techniques for reading and interpreting French literary texts. Special attention to the study of lyric poetry, drama, and short narrative. (*Carries HU divisional credit*) (M) Either sem.

**CAS LF 351 Introduction to the French Novel.** Prerequisite: LF 350 or equivalent. Close readings in the French novel from its origins to the *nouveau roman*. Attention to narration, themes, symbols, and schools. Investigation of the *roman d'analyse*, Romantic prose, realist fiction, and other types of narrative. (*Carries HU divisional credit*) (M) Either sem.

**CAS LI 350 Italian Literature I: Medieval.** Development of techniques for reading and interpreting Italian literary texts. Historical and critical study of the first two centuries of Italian literature, 1200–1400: the early poets, Guido Cavalcanti, Dante, and Petrarch. (*Carries HU divisional credit*) (M) 2nd sem.

**CAS LI 352 Italian Literature III: Modern Period.** Prerequisite: LI 212. Development of techniques for reading and interpreting Italian literary texts. Historical and critical study of Italian literature from the eighteenth to the twentieth century: Alfieri, Romanticism, and Leopardi, Verga, Capuana and *verismo*, theatre of Pirandello. (*Carries HU divisional credit*) (M) 1st sem.

**CAS LS 350 Introduction to Analysis of Hispanic Texts.** Prerequisite: LS 303, placement examination, or equivalent. Development of techniques for reading and interpreting Hispanic literary texts; reading of lyric poetry, drama, and fictional narrative. (*Carries HU divisional credit*) (M) Either sem.

Expanded divisional studies lists: With advisor's approval and appropriate prerequisites, students may take any of the following literature and linguistics courses, when offered, for humanities divisional credit:

French: CAS LF 250, 286, 356, 451–453, 455–457, 460

Italian: CAS LI 283, 450, 452, 453, 473

Linguistics: CAS LX 235, 502, 510, 521, 522, 535

Portuguese: CAS LP 310

Spanish: CAS LS 250, 452, 454–457

Note: All of the courses listed **below** are offered in the first semester unless otherwise indicated.

#### French

There are two options available to complete the CAS language requirement in French. The four-semester Four-Skills Sequence (111, 112, 211, 212) combines speaking, listening, reading, and writing. These courses are conducted in French. The emphasis in the Reading Sequence of second-year courses (221, 222) is on reading comprehension, and English is the language of instruction.

##### Four-Skills Sequence

**CAS LF 111 First-Semester French.** A multimedia approach for students who have never studied French. A variety of communicative tasks develop speaking, listening, reading, and writing skills.

**CAS LF 112 Second-Semester French.** Prerequisite: LF 111 or placement test results. Continues CAS LF 111. A multimedia approach which develops speaking, reading, writing, and listening skills, together with the grammar and vocabulary needed for more complex communicative tasks.

**CAS LF 211 Third-Semester French.** Prerequisite: LF 112 or placement test results. Reading of a mystery novel, discussion of films, role-playing, and creative use of online materials, accompanied by advanced study of grammar and emphasis on communicative skills.

**CAS LF 212 Fourth-Semester French.** Prerequisite: LF 211 or placement test results. Refines the four skills through in-depth study of a modern novel. Creative oral and written exercises based on the novel and study of advanced grammar. Viewing of contemporary French films. Fulfills CAS language requirement, prepares for further study (LF 303).

##### Reading Sequence

**CAS LF 221 Third-Semester French for Reading.** Prerequisite: LF 112 or placement test results. Develops proficiency in translating French. Begins with intensive grammar review and close readings of short literary texts and culminates with the study of a mystery novel by Simenon. Study of Francophone culture through film and music. (Students intending to continue in CAS LF 303 must take LF 211, not 221.)

**CAS LF 222 Fourth-Semester French for Reading.** Prerequisite: LF 221 or placement test results. Refines accuracy and fluency of reading and translation skills. Develops an appreciation of complex sentence structures, idiomatic usage, and writing styles through study of a contemporary novel and play, newspaper articles, songs, films, and comic strips. Fulfills CAS language requirement. (Students intending to continue in CAS LF 303 must take LF 212, not LF 222.)

### Other French Courses

**CAS LF 303 Composition and Conversation I.** Prerequisite: LF 212 or by placement test results. Refine your knowledge of French, reinforce what you know to prepare for literature courses. Includes discussions of texts by classic and contemporary writers and of films on pertinent cultural themes. (M)

**CAS LF 304 Composition and Conversation II.** Prerequisite: LF 303 or placement test results. (M)

**CAS LF 350 Introduction to Analysis of French Texts.** See description above, p. 64. (*Carries HU divisional credit*) (M)

**CAS LF 351 Introduction to the French Novel.** Prerequisite: LF 350. See description above, p. 64. (*Carries HU divisional credit*) (M)

### Italian

**CAS LI 111 First-Semester Italian.** For beginners only or by results of placement test administered in September. Presents the essentials of Italian grammar.

**CAS LI 112 Second-Semester Italian.** Prerequisite: LI 111 or results of placement test administered in September. Grammar review; conversations and compositions.

**CAS LI 211 Third-Semester Italian.** Prerequisite: LI 112 or results of placement test administered in September. Grammar review; conversations and compositions.

**CAS LI 212 Fourth-Semester Italian.** Prerequisite: LI 211 or results of placement test administered in September. Students read and analyze a modern Italian novel.

**CAS LI 303 Self-Expression.** Prerequisite: LI 212 or placement test results. Comprehensive study of grammatical structures and principles of composition to develop both oral and written fluency. Study of linguistic features that characterize Italian. (M)

**CAS LI 305 Topics in Composition and Culture.** Prerequisite: LI 303 or placement test results. Development of writing and oral skills through the analysis of frequent short papers in special writing labs.

### Other Italian Courses

**CAS LI 250 Masterpieces of Modern Italian Literature (in English translation).** See description above, p. 64. (*Carries HU divisional credit*) (M) 2nd sem.

**CAS LI 350 Italian Literature I: Medieval.** See description above, p. 64. (*Carries HU divisional credit*) (M) 2nd sem.

**CAS LI 352 Italian Literature III: Modern Period.** Prerequisite: LI 212. See description above, p. 64. (*Carries HU divisional credit*) (M)

### Linguistics

**CAS LX 240 Great Linguists.** See description above, p. 64. (*Carries HU divisional credit*) (M) 2nd sem.

**CAS LX 250 Introduction to Linguistics.** See description above, p. 64. (*Carries HU divisional credit*) (M)

### Portuguese

#### Four-Skills Sequence

**CAS LP 111 First-Semester Portuguese.** Introduction to grammatical structures. Emphasis on aural comprehension, speaking, and pronunciation. Introduction to Brazilian and Portuguese culture. Lab required. Four hours weekly.

**CAS LP 211 Third-Semester Portuguese.** Prerequisite: LP 112 or placement test results. Completes study of basic grammatical structures. Emphasis on speaking and aural comprehension. Readings on contemporary culture. Writing assignments. Lab required. Four hours weekly.

#### Portuguese Courses

**CAS LP 305 Topics in Language and Culture.** Prerequisite: CAS LP 212 or placement test results. Centers on advanced Portuguese grammar and develops writing and speaking skills beyond the level reached in LP 212. Provides a basic introduction to the main periods and features of Brazilian history and culture. Also suitable for heritage speakers.

### Spanish

There are two options available to complete the CAS language requirement in Spanish. The four-semester Four-Skills Sequence (111, 112, 211, 212) combines speaking, listening, reading, and writing. These courses are conducted in Spanish. Students may choose to complete LS 111 and 112 in a single semester by taking LS 123, an intensive 8-credit course. The emphasis in the four-semester Reading Sequence (121, 122, 221, 222) is on reading comprehension, and English is the language of instruction.

#### Four-Skills Sequence

**CAS LS 111 First-Semester Spanish.** For students who have never studied Spanish or by placement test results. The approach in this course is audiolingual; reading and writing skills are also developed.

**CAS LS 112 Second-Semester Spanish.** Prerequisite: LS 111 or placement test results. Continues the work of LS 111.

**CAS LS 123 First-Year Spanish.** For beginners only. Intensive equivalent of one year of college Spanish.

**CAS LS 211 Third-Semester Spanish.** Prerequisite: LS 112 or placement test results. Completes study of grammar, with development of speaking, reading, writing, and aural comprehension.

**CAS LS 212 Fourth-Semester Spanish.** Prerequisite: LS 211 or placement test results. Practice in conversation and composition with readings from contemporary literature and the many spheres of Hispanic culture. Grammar review.

#### Reading Sequence

**CAS LS 121 First-Semester Spanish for Reading.** For students who have never studied Spanish or by placement test results. Contrastive study of Spanish and English spelling and pronunciation,

fundamentals of grammar, techniques of vocabulary building: cognate recognition and morphology. Translation and discussion of short literary and cultural texts.

**CAS LS 122 Second-Semester Spanish for Reading.** Prerequisite: LS 121, LS 111, or placement test results. Continues the study of grammatical structures with emphasis on contrastive analysis of Spanish and English verb tenses. Expansion of vocabulary. Listening comprehension exercises. Reading of poetry as well as narrative and expository prose.

**CAS LS 221 Third-Semester Spanish for Reading.** Prerequisite: LS 122, LS 112, or placement test results. Review of grammatical structures. Reading materials include theater, art criticism, more complex narratives, and short articles. Viewing and discussion of films. (Students intending to continue in LS 303 must take LS 211, not 221.)

**CAS LS 222 Fourth-Semester Spanish for Reading.** Prerequisite: LS 221 or placement test results. Continuing review of grammatical structures. Emphasis on the contemporary idiom. Readings: historical texts, representative examples of journalism, and a short novel. Viewing and discussion of films. (Students intending to continue in LS 303 must take LS 212, not 222.)

### Spanish Courses

**CAS LS 303 Composition and Conversation in Spanish I.** Not open to native speakers of Spanish. Prerequisite: LS 212, SAT subject test score of 560, or placement test results. Development of skills in spoken and written language. Grammar review, vocabulary building, regular compositions. (M)

**CAS LS 304 Composition and Conversation in Spanish II.** Prerequisite: LS 303 or placement test results. (M)

**CAS LS 305 Topics in Language and Culture.** Prerequisite: LS 303 or placement test results. Students who have completed LS 304 or a more advanced college-level language course may not receive credit for LS 305. Two topics are offered in Fall 2011. Sections A1 and C1: Spanish through Film and Literature. Section B1: Alma Boricua: Puerto Rican Language and Culture. Focus in all sections on improving communication through performance while consolidating grammatical structures, building vocabulary, and honing pronunciation. (M)

**CAS LS 309 Composition for Native Speakers of Spanish.** Not open to students who have completed LS 303 or LS 304. Emphasis on written and oral skills. Contemporary literary and cultural texts used as the basis for class discussion and written exercises.

**CAS LS 350 Introduction to Analysis of Hispanic Texts.** See description above, p. 64. (*Carries HU divisional credit*) (M)

### Sociology

Sociology's subject matter ranges from the family to the state, from crime to religion, from the divisions of race and social class to the shared beliefs of a common culture. Few fields have such broad scope and interest.

*SO 100: Principles in Sociology* provides a general survey of the field, its various areas, theories, and methods. All freshmen are encouraged to take SO 100, although it is not a strict prerequisite for several of the 200-level courses (such as *The American Family*, or *Sociology of Healthcare*).

In addition to serving as an important component of a liberal arts education for all, the department offers a major and minor whose requirements give students considerable range of choice in

designing a program to suit their needs. The major comprises one course at the 100 level; SO 201 Methods, SO 203 Theories, and SO 303 Substantive Themes in Sociological Theory; six additional sociology courses; and one course in statistics (CAS MA 113, 115, or 213).

Sociology is a useful major or minor for students planning to enter such professions as law, business, education, criminal justice, and even medicine—not to mention social work, politics, and public administration. It also offers a range of research techniques that can be applied in many specific areas—whether one's concern is with crime and criminal justice, the provision of medical care, the problems of poverty and welfare, or the organization of work.

The department strongly encourages students to combine their coursework with activities in which they can observe behavior at close range, apply and perfect their academic knowledge, and put their professional dreams to the test. This can be done through volunteer or paid work (available through the Career Services office).

**CAS SO 100 Principles in Sociology.** An introduction to the major theories and basic principles of sociological analysis. Subjects include methods of social research and investigation; role of individuals in groups, organizations, and society; socialization and education; stratification; race and ethnicity; science, culture, and religion; formal and informal organization; and economic and political systems. (*Carries SS divisional credit*) Either sem.

The following courses also carry SS divisional credit (all except SO 225 are offered in Fall 2011):

CAS SO 205	<b>The American Family</b>
CAS SO 207	<b>Sociology of Race and Ethnicity</b>
CAS SO 215	<b>Sociology of Healthcare</b>
CAS SO 225	<b>Law and Society</b>
CAS SO 242	<b>Globalization and World Poverty</b>
CAS SO 244	<b>Urban Sociology</b>

### Women's, Gender, & Sexuality Studies

The Women's, Gender, & Sexuality (WGS) Studies Program promotes interdisciplinary inquiry into the forces that shape our experiences as gendered and sexed human beings. WGS courses examine the social, political, and economic positions of women and men in diverse cultures and historical moments worldwide, and foster understanding of the ways in which our bodies, social and cultural experiences, and imaginative constructions affect what it means to be women and men.

WGS offers a six-course minor drawing on over 50 courses from 14 departments or programs. All minors take the two-semester sequence WS 101/102 Gender and Sexuality I and II. Team-taught by faculty members from the natural sciences, social sciences, and humanities, WS 101/102 provides a distinctively integrated introduction to the field and its key questions.

WS 101/102 together may also be taken for divisional studies credit. Other divisional studies options are WS 113, which focuses on women in contemporary American society, and WS 114, which introduces students to the study of art, literature, and film produced by women.

**CAS WS 101 (fall) and 102 (spring) Gender and Sexuality: An Interdisciplinary Introduction.** Prerequisite for WS 102: WS 101 or consent of instructor. Introduction to women's, gender, and sexuality studies, integrating approaches from the natural and social sciences and humanities. Focus in WS 101 is on the origins, diversity, and expression of gendered and sexed individuals. Topics include the evolutionary origin of sexes; evolution, development, and social construction of sex differences; sexual differences, similarities, and diversity in bodies, brains, behavior, and

artistic and intellectual expressions. Focus in WS 102 is on communities and institutions. Approaches include evolutionary, historical, and cross-cultural analyses, feminist and queer theory. Topics include human reproductive biology; patriarchy and sexual violence; parenting, kinship structures, and forms of intimacy; sexual selection; the construction of gender identity and sexual orientation; evolutionary medicine; and the relationship of academic research to social activism.

Students who complete both halves of the two-semester sequence WS 101/102 receive divisional studies credit for two courses, from two different divisions: natural science (without lab), social science, and/or humanities. Neither WS 101 nor WS 102 alone carries divisional studies credit.

**CAS WS 113 Women, Society, and Culture: Social Sciences.** Women's economic, political, and familial situation in contemporary American society. Examination of works by feminist scholars in various disciplines, including psychology, biology, and history. (*Carries SS divisional credit*) Either sem.

**CAS WS 114 Women, Society, and Culture: Humanities.** Voices and visions of women writers and filmmakers. How women's artistic productions contribute to understanding the social, cultural, and political history of women. (*Carries HU divisional credit*) Either sem.

## Index

- Academic Advising, 14
- African Studies, 18
  - Amharic, 18
  - Hausa, 18
  - isiXhosa, 18
  - isiZulu, 18
  - Swahili, 18
  - Wolof, 18
- African American Studies, 19
- American & New England Studies, 19
- Anthropology, 19
- Archaeology, 20
- Astronomy, 22
- Biochemistry & Molecular Biology, 23
- Biology, 24
- Chemistry, 25
- Classical Studies, 28
  - Ancient Greek, 29
  - Latin, 29
  - Modern Greek, 29
- Combined BA/MA Program, 11
- Combined BA/MPH Program, 10
- Computer Science, 30
- Core Curriculum, 2
- Course Adjustment, 17
- Course Confirmation, 17
- Course Load, 8
- Degree Requirements:
  - The College Program, 2
- Departments, Majors, Minors, and Courses, 18
- Divisional Studies, 4
- Dual Degree Program, 11
- Earth Sciences, 31
- East Asian Studies, 44
- Economics, 32
- Electives, 7
- English, 34
- Environmental Analysis & Policy, 36
- Environmental Science, 37
- European Studies, 44
- Foreign Language Requirement, 6
- General Education Requirement, 2
- Geography & Environment, 38
- History, 39
- History of Art & Architecture, 41
- Independent Major, 11
- International Relations, 43
- Judaic Studies, 45
- Latin American Studies, 44
- Major, 2
- Marine Science, 45
- Mathematics & Statistics, 45
- Mathematics Requirement, 7
- Minor, 8
- Modern Languages & Comparative Literature, 48
  - Arabic, 51
  - Chinese, 52
  - Comparative Literature, 52
  - German, 53
  - Hebrew, 53
  - Hindi-Urdu, 54
  - Japanese, 54
  - Korean, 55
  - Persian, 55
  - Russian, 56
  - Turkish, 56
- Modular Medical Integrated Curriculum (MMEDIC), 10
- Music, 56
- Muslim Studies, 57
- Neuroscience, 57
- On-Site Registration, 1, 15
- Orientation (University), 1, 15
- Philosophy, 58
- Phone-in and Email Registration, 15
- Physical Education Courses, 9
- Physics, 59
- Placement Tests, 6, 16
- Political Science, 60
- Prelaw, 10
- Premedical and Health Science Programs, 9
- Psychology, 61
- Registration, 1, 15–16
- Religion, 62
- Residence Requirement, 8
- Romance Studies, 63
  - French, 65
  - Italian, 66
  - Linguistics, 66
  - Portuguese, 67
  - Spanish, 67
- Satisfactory Record Requirement, 8
- Seven-Year Medical and Dental Programs, 10
- Seven-Year Rule, 8
- Sociology, 68
- Special Programs, 9
- Study Abroad, 12
- Undergraduate Research Opportunities Program (UROP), 13
- Women's, Gender, & Sexuality Studies, 69
- Writing Requirement, 5



