

Letters and Science

College of Letters and Science (<http://ls.berkeley.edu>)

Dean's Office: Durant Hall

**Undergraduate Advising: 206 Evans Hall,
(510) 642-1483**

**Executive Dean and Dean, Mathematical and
Physical Sciences Division: Mark A. Richards,
PhD**

**Dean, Arts and Humanities Division: Anthony J.
Cascardi, PhD**

**Dean, Biological Sciences Division: G. Steven
Martin, PhD**

Dean, Social Sciences Division: Carla Hesse, PhD

Dean, Undergraduate Division: Tyler Stovall, PhD

**College Website: College of Letters and Science
(<http://ls.berkeley.edu>)**

Overview

The College of Letters and Science offers undergraduate students a variety of programs leading to the Bachelor of Arts degree in four academic years of full-time study. The first two years are a time of exploration and experimentation, leading to declaration of a major. In the last two years students acquire and refine special knowledge as they focus on their major programs. The college's departments are devoted to instruction and research in a variety of academic subjects. Each department represents a style of study and communication and refined development of a set of structured ideas. The subjects of the departments overlap and complement one another.

Requirements for Admission in Advanced Standing

Students applying for admission will not be considered if they have completed more than 80 semester (120 quarter) units. The dean of the college makes exceptions to this policy only in unusual circumstances. Applicants with advanced-placement credit may, however, exceed the 80-semester-unit limitation by the amount of their advanced-placement credit and be admissible if they meet all other admission criteria.

Transfer students with 60 or more semester units are expected to have satisfied, before admission to the college, the reading and composition breadth requirement, the foreign language breadth requirement, and the quantitative reasoning breadth requirement of the college. Students who apply as intercampus transfers and who have completed all the Letters and Science breadth requirements, or the general education requirements, or the equivalent of either, at the University of California campus from which they transfer may, upon petition, be credited with having completed the breadth requirements of the college. Transfer students who apply from community colleges in California have the option of fulfilling lower division breadth requirements by completing the Intersegmental General Education Transfer Curriculum (IGETC) (<http://admission.universityofcalifornia.edu/transfer/requirements/additional-requirements/igetc>). This program specifies a series of subject areas and types of courses that, if completed before transfer, will satisfy the

lower division breadth and general education requirements at any general campus of the University of California.

Note: In recent years, certain major programs have turned away qualified applicants because of space limitations. Transfer applicants should be aware that admission to those majors in the college is competitive.

Biological Sciences Majors

Students planning to declare majors in a biological science must in addition have completed the minimum subject preparation in the major with a GPA of 2.0 (C average) or higher. The subject preparation listed below is minimal; transfer students who wish to declare a major in a biological science are urged to consult directly with the department or program in which they are interested to learn of additional requirements or of any restriction placed on entry to the major. The subject preparation for majors in the biological sciences is as follows:

Students who have completed 60 to 70 semester units:

1. General chemistry with laboratory (equivalent to one year of UC Berkeley's inorganic chemistry with laboratory)
2. General biology with laboratory (equivalent to Berkeley's Biology 1A-1B)

Students who have completed 71 to 80 semester units must complete in addition to points 1 and 2 above: Introductory organic chemistry with laboratory (equivalent to Berkeley's organic chemistry with laboratory).

Requirements for the Bachelor of Arts Degree

Students must complete a minimum of 120 semester units, distributed according to regulations that appear in the College of Letters and Science's *Guide to Earning Your Degree*. A 15-unit class schedule per semester is considered to be a normal course load; a class list of fewer than 13 units requires the special permission of the dean. There are also scholarship, minimum-progress, residence, breadth, and major requirements; these are described in the announcement as well. Brief descriptions of the breadth, major, and minor requirements appear below. Major and minor programs are outlined under the department, field, or group headings in this bulletin. In addition, students must satisfy the University requirements in Subject A, American History, and American Institutions, and the Berkeley campus American Cultures requirement.

Breadth Requirements

There are four breadth requirements:

1. **Reading and Composition:** Students must normally complete the first half of the requirement (an "A" course) during the freshman year and the second half of the requirement (a "B" course) during the sophomore year. Students must complete the requirement through coursework according to the requirements of the semester system, whether the coursework is undertaken at Berkeley or elsewhere.
2. **Quantitative Reasoning:** This requirement may be fulfilled by satisfactory performance in an examination or by successful completion of an acceptable college course. Information about acceptable examinations and acceptable courses is included in the announcement. This requirement, if satisfied by coursework, must be completed without delay.
3. **Foreign Language:** Students who have not satisfied the language requirement at the time of admission must complete it without delay. The requirement may be satisfied by (a) completion of the

third year of one foreign language in high school with a minimum grade of C-, (b) by completion of the second semester of a Berkeley course, or its equivalent elsewhere, in one foreign language with a minimum grade of C-, or (c) by demonstration of equivalent knowledge through examination, including the College Entrance Examination Board Achievement Test, the CEEB Advanced Placement Examination (if taken before admission to the college), or an acceptable foreign language placement examination offered by a foreign language department at Berkeley or on another campus of the University of California.

4. **Seven-Course Breadth Requirement:** Students must take one course from each of the following categories, with no more than two courses in the same department:

- One course in Physical Science
- One course in Biological Science
- One course in Arts and Literature
- One course in Historical Studies
- One course in Philosophy and Values
- One course in International Studies or participation in the University of California Education Abroad Program or a recognized equivalent
- One course in Social and Behavioral Sciences

These courses may be taken from the College of Letters and Science and the professional schools and colleges and may be spread over the four years of college attendance. See the College of Letters and Science's *Guide to Earning Your Degree* for details and a list of the approved courses that you may take to fulfill the requirement.

Major Programs

All students must pursue and complete a major program, the object of which is to provide them with a limited experience in specialization. There are more than 60 departmental major programs ranging from the humanities (e.g., art, comparative literature, English, foreign languages, etc.) and the social sciences (e.g., anthropology, economics, geography, psychology, etc.), to the biological sciences (e.g., integrative biology, molecular and cell biology) and the physical sciences (e.g., geology, mathematics, statistics, etc.). In addition, there are group majors in American Studies, Asian Studies, Celtic Studies, Cognitive Science, Development Studies, Dutch Studies, Environmental Sciences, Ethnic Studies, Film, Latin American Studies, Legal Studies, Media Studies, Middle Eastern Studies, Peace and Conflict Studies, Political Economy, Religious Studies, and Social Welfare. There are also field majors in the Physical Sciences and Interdisciplinary Studies. Moreover, students who have completed at least 60 semester units and at least one semester of enrollment at Berkeley, and who have attained a minimum 3.0 Berkeley and overall GPA may, with the permission of the dean and support and supervision of a college faculty member and a faculty member who acts as second reader of the individual major thesis, pursue an individual major designed to satisfy special academic goals. Thus, the options available to students outside traditional disciplines are many and varied.

For a list of all majors available in the College of Letters and Science, please see the List of Majors Page on the college's website (<http://ls-advise.berkeley.edu/major/majorlist.html>) .

Minor Programs

Minor programs are intended as optional programs that will encourage coherence in the work that students undertake outside their major field(s) of study. Students may complete one or more minor programs, normally in a field both academically and administratively distinct from their major. The college has set the following minimum requirements for completion of a minor program:

1. **Course Requirements:** A minimum of five upper division courses, completed on a letter-graded basis, are required for the minor. At least three of the five upper division courses must be completed at Berkeley.
2. **GPA Requirements:** Students must maintain a minimum overall GPA of 2.0 in upper division courses required for the minor program.

Students should consult the department or group in charge of the minor for additional requirements and specific information regarding the minor program in which they are interested. Admission to the minor and certification of completion of the minor are determined by the department or group in charge of the program. When a student completes a minor program, the department or group in charge will notify the Office of the Registrar, so that the completion may be noted on the student's transcript.

Additional minor programs are offered by other schools and colleges on campus. Consult their listings in this bulletin for more information. For a list of minors available in the College of Letters and Science, please see the List of Minors page on the college's website (<http://ls-advise.berkeley.edu/major/minorlist.html>) .

Undergraduate Division

The mission of the Undergraduate Division is to develop and administer innovative and interdisciplinary courses and programs in the College of Letters and Science that do not belong to a single department.

- **Undergraduate and Interdisciplinary Studies (UGIS)** (<http://bulletin.berkeley.edu/archive/2013-14/departmentsandsubjects/undergraduateandinterdisciplinarystudies>) administers the field major in interdisciplinary studies (<http://bulletin.berkeley.edu/archive/2013-14/departmentsandsubjects/interdisciplinarystudies>) and the group majors in American Studies (<http://bulletin.berkeley.edu/archive/2013-14/departmentsandsubjects/americanstudies>) , Cognitive Science (<http://bulletin.berkeley.edu/archive/2013-14/departmentsandsubjects/cognitivescience>) , Media Studies (<http://bulletin.berkeley.edu/archive/2013-14/departmentsandsubjects/mediastudies>) , and Religious Studies (<http://bulletin.berkeley.edu/archive/2013-14/departmentsandsubjects/religiousstudies>) . Minor programs are offered in Creative Writing, Disability Studies, and Religious Studies. UGIS also supports the following majors in International and Area Studies (<http://bulletin.berkeley.edu/archive/2013-14/departmentsandsubjects/internationalandareastudies>) (101 Stephens Hall, (510) 642-4466): Asian Studies (<http://bulletin.berkeley.edu/archive/2013-14/departmentsandsubjects/asianstudies>) , Development Studies (<http://bulletin.berkeley.edu/archive/2013-14/departmentsandsubjects/developmentstudies>) , Latin American Studies (<http://bulletin.berkeley.edu/archive/2013-14/departmentsandsubjects/latinamericanstudies>) , Middle Eastern Studies (<http://bulletin.berkeley.edu/archive/2013-14/departmentsandsubjects/middleeasternstudies>) , Peace and Conflict Studies (<http://bulletin.berkeley.edu/archive/2013-14/departmentsandsubjects/peaceandconflictstudies>) , and

Political Economy (<http://bulletin.berkeley.edu/archive/2013-14/departmentsandsubjects/politicaconomy>) .

In addition to our interdisciplinary majors, the Undergraduate Division sponsors a wide range of academic programs and services for undergraduates. A world-class research university such as ours offers something special to undergraduates who know how to make the most of it, and the Undergraduate Division is a good starting place for students who seek close intellectual contact with faculty, either in a small seminar or in a research apprenticeship, for students who would like to apply for a national scholarship, etc. Some of the campuswide programs for undergraduates that are administered by the Undergraduate Division are described below.

- **The College Writing Programs** (<http://bulletin.berkeley.edu/archive/2013-14/departmentsandsubjects/collegewritingprograms>) (112 Wheeler Hall, (510) 642-5570), designed to help undergraduates establish fluency and control over their reading and writing skills, are also part of the Undergraduate Division.
- **The Freshman and Sophomore Seminars** (<http://fss.berkeley.edu>) are also housed in the Undergraduate Division. Seminars are created and taught by faculty members from nearly every campus department. The office posts descriptions of these special course offerings to freshmen in time for Tele-BEARS registration each semester. For more information, please contact Alix Schwartz in 333 Campbell Hall, (510) 642-8378, or go see the Freshman and Sophomore Seminars website (<http://fss.berkeley.edu>) .
- **The UC Berkeley Washington Program** (<http://ucdc.berkeley.edu>) , also administered by UGIS, allows undergraduates to spend a semester in Washington, DC, combining coursework with internships.
- **The Office of Undergraduate Research (OUR)** (<http://research.berkeley.edu>) seeks to involve undergraduates more deeply in the research life of the University. To this end, OUR coordinates and develops programs and resources that bring undergraduates into the field, laboratories, and archives. This office administers the Undergraduate Research Apprenticeship Program, the Haas Scholars Program, and the Beckman Scholars Program, and maintains a central research opportunities website (<http://research.berkeley.edu>) .
- **The Scholarship Connection** (<http://scholarships.berkeley.edu>) coordinates applications for scholarships and awards based on academic achievement and social or political contribution. Campus committees for the Rhodes, Marshall, Truman, and several other distinguished scholarships are housed here. Staff work to identify talented undergraduates and assist them in the application process.

L & S 1 Exploring the Liberal Arts 2 Units

Department: Letters and Science

Course level: Undergraduate

Terms course may be offered: Fall and spring

Grading: Offered for pass/not pass grade only.

Hours and format: 1.5 hours of Lecture and 1 hour of Discussion per week for 15 weeks.

This is a course for entering students, particularly those who are undecided about the major they would like to pursue. It provides an introduction to the intellectual landscape of the College of Letters and Science, revealing the underlying assumptions, goals, and structure of a liberal arts education. Topics include the difference between the College of Letters and Science and the professional schools, the rationale behind the breadth requirement, the approaches and methodologies of each of the divisions in the college, and the benefits of engaging in research as an undergraduate. The ultimate goal of the course is to transform the students into informed participants in their own educational experiences, so that they can make the most of their years at Berkeley.

L & S 5 Introduction to Entrepreneurship 2 Units

Department: Letters and Science

Course level: Undergraduate

Terms course may be offered: Fall and spring

Grading: Letter grade.

Hours and format: 1.5 hours of Lecture per week for 15 weeks.

This course is designed for freshmen and sophomores who wish to know about entrepreneurship, its importance to our society, and its role in bringing new ideas to market. Students will understand the entrepreneurial business process and how they might become involved in those processes in their future careers--in whatever direction those careers might lead. This class will explore the structure and framework of entrepreneurial endeavors--both inside and outside the business world. The course will answer questions such as: What is entrepreneurship? What is opportunity recognition and selection? How can you create and define competitive advantage? How can you think about people in the entrepreneurial context? How can you garner support (financial and other) for an entrepreneurial venture? What do you do when nothing works as planned? And, how do you focus on doing right and doing well?

Instructor: Walske

L & S C5/UGBA C5 Introduction to Entrepreneurship 2 Units

Department: Letters and Science; Undergrad. Business Administration

Course level: Undergraduate

Terms course may be offered: Fall and spring

Grading: Letter grade.

Hours and format: 2 hours of Lecture per week for 15 weeks.

Designed for students who wish to know about entrepreneurship, its importance to our society, and its role in bringing new ideas to market. Students will understand the entrepreneurial business process and how they might become involved in those processes in their future careers--in whatever direction those careers might lead. What is entrepreneurship? What is opportunity recognition and selection? How can you create competitive advantage? How do you focus on doing right and doing well?

L & S 10 The On the Same Page Course 1 Unit

Department: Letters and Science

Course level: Undergraduate

Term course may be offered: Fall

Grading: Offered for pass/not pass grade only.

Hours and format: 1 hour of lecture/discussion per week for 8 weeks.

This is a course for new students (freshmen or transfers) who would like to engage with the On the Same Page book or theme for their year in a more in-depth way than the average student might. They will take full advantage of the On the Same Page events and programming planned for the fall of each year, and will enjoy opportunities to discuss the book or theme with faculty and fellow students.