Greetings to students, members, and friends of our campus community!

The General Catalog is the foremost guide to the Berkeley academic experience — a hefty volume that testifies to the breadth, depth, and astounding variety of the programs and courses available to our students. The remarkable quantity of these academic opportunities is underpinned by remarkable quality, making Berkeley a nexus of international leadership in every discipline.

Simply put, Berkeley is the best public teaching and research university in the nation. Our students are at the center of an unsurpassed educational experience, learning with the world’s top scholars and with their peers, a student body with a phenomenal range of backgrounds, perspectives, and talents.

This catalog is one of my favorite books — I use it myself to learn more about all that our campus offers, and I have watched students use it to explore new areas of study, discover the connections between fields, and, ultimately, open doors to wherever they want to go academically. The photos throughout the catalog give you a snapshot of some of the amazing faculty members and resources available to Berkeley students, every day and in every discipline.

To our students, relish the hours you spend in Berkeley’s classrooms, labs, and libraries. Make time to explore Berkeley’s richness, in all its many forms.

If you see me on campus, do stop to say hello — I’ll be eager to know how you are doing and where this catalog has led you at Berkeley.

Yours sincerely,

Robert J. Birgeneau
Chancellor
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General Catalog, University of California, Berkeley, 2009-11.

All qualified students—regardless of race, color, national origin, religion, sex, gender identity, pregnancy/childbirth and medical conditions related thereto, disability, age, medical condition, ancestry, marital status, citizenship, sexual orientation, or status as a Vietnam-era veteran or special disabled veteran—are welcome.

To obtain the General Catalog by mail, write to the Cal Student Store, University of California, Berkeley, Attn: Mail Order Department #4504, Berkeley, CA 94720-4504; or call (510) 642-9000 ext. 674; or visit calstudentstore.com. The catalog is also online at catalog.berkeley.edu.

UC Berkeley home page: berkeley.edu; UC Berkeley NewsCenter: newscenter.berkeley.edu
### Summer Sessions 2009

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<td>July 6-August 14</td>
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<tr>
<td>Independence Day Holiday</td>
<td>July 3</td>
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</tr>
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<td>Three-Week Session</td>
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### Fall Semester 2009

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*Note: The above dates may change. See opa.berkeley.edu/AcademicCalendar/calendar.aspx for up-to-date calendar information.*
INFORMATION GUIDE

Helpful Publications

General Catalog
catalog.berkeley.edu

by mail:
Cal Student Store
University of California,
Berkeley
108 MLK Jr. Student Union
Berkeley, CA 94720-4504
Attn: Mail Order Dept.

by telephone:
call (510) 981-9618 or
(800) 766-1546

by visiting:
calstudentstore.com

Schedule of Classes
schedule.berkeley.edu

Resource:
A reference guide for
new Berkeley students
resource.berkeley.edu

College and School
Announcements
(available at colleges
and schools)

University of California,
Berkeley Policies Applying
to Campus Activities,
Organizations, and
Students
students.berkeley.edu/uga/regs.stm

University of California, Berkeley
Berkeley, CA 94720
General information:
(510) 642-6000
TTY: (510) 642-9900
berkeley.edu

Admissions, Graduate
309 Sproul Hall
(510) 642-7405
grad.berkeley.edu/admissions

Admissions, Undergraduate
110 Sproul Hall
(510) 642-3175
Fax: (510) 642-7333
admissions.berkeley.edu

Advising, Career
2111 Bancroft Way
(510) 642-1716
career.berkeley.edu

Advising, Student Life
119 César Chávez Student Center
(510) 642-7224
slas.berkeley.edu

Alumni Association
Alumni House
(510) 642-7026 or 1-888-CAL-ALUM
alumni.berkeley.edu

Associated Students (ASUC)
Eshleman Hall, 2nd Floor
(510) 642-1434
asuc.org

Athletics, Intercollegiate
Hass Pavilion
Media Relations Office:
(510) 642-5363
Ticket office: 2223 Fulton Street
64-BEARS or 800-GO-BEARS
calbears.com

Bear Facts
bearfacts.berkeley.edu

Berkeley Art Museum
2626 Bancroft Way
(510) 642-0808
TTY: (510) 642-8734
bampfa.berkeley.edu

Botanical Garden
200 Centennial Drive
(510) 643-2755
botanicalgarden.berkeley.edu

Career Center
2111 Bancroft Way, 2nd Floor
(510) 642-1716
career.berkeley.edu

Center for Student Leadership
102 Sproul Hall
(510) 642-5171 or (510) 642-6778
csl.berkeley.edu
Child Care and Family Services
2610 Channing Way
(510) 642-1827
berkeley.edu/work/child.shtml

Counseling and Psychological Services
2222 Bancroft Way
(510) 642-9494
TTY/TDD: (510) 643-1233
uhs.berkeley.edu/students/counseling

Disabled Students’ Program
260 César Chávez Student Center
(510) 642-0518
TTY/TDD: (510) 642-6376
dsp.berkeley.edu

Education Abroad Program
160 Stephens Hall
(510) 642-1356
studyabroad.berkeley.edu

Educational Opportunity Program (EOP)
119 César Chávez Student Center
(510) 642-7224
slas.berkeley.edu

Financial Aid, Graduate
201 Sproul Hall
(510) 642-0485
grad.berkeley.edu/financial

Financial Aid, Undergraduate
211 Sproul Hall
(510) 642-6442
students.berkeley.edu/finaid

Gender Equity Resource Center
202 César Chávez Student Center
(510) 642-4786
students.berkeley.edu/osl/geneq.asp

Health Services
UHS Tang Center
2222 Bancroft Way
Medical services: (510) 642-2000
Nurse advice line: (510) 643-7197
Student Health Insurance Office:
(510) 642-5700
uhs.berkeley.edu

Housing, Campus
2610 Channing Way
(510) 642-4108
housing.berkeley.edu/livingatcal

Housing—Cal Rentals
2610 Channing Way, 2nd Floor
(510) 642-3642
calrentals.housing.berkeley.edu

Interfraternity Council (Fraternities)
102 Sproul Hall
(510) 642-8067
www.calgreeks.com

International Student Admissions, Graduate
309 Sproul Hall
(510) 642-7405
grad.berkeley.edu/international/index.shtml

International Student Admissions, Undergraduate
110 Sproul Hall
(510) 642-3246
admissions.berkeley.edu

International Student and Scholar Advising
Berkeley International Office
International House
2299 Piedmont Avenue
(510) 642-2818
www.internationaloffice.berkeley.edu

Library Information
Main Library Information Desk
(510) 642-6657
TTY: (510) 642-8952
lib.berkeley.edu

Orientations, Undergraduate
New Student Services
CalSO (Cal Student Orientation)
2610 Channing Way
(510) 642-4970 (NSS)
Summer Bridge: (510) 642-5983
nss.berkeley.edu

Pacific Film Archive
2575 Bancroft Way
(510) 642-1412
Recorded information: (510) 642-0808
TTY/TDD: (510) 642-8734
bampfa.berkeley.edu
Panhellenic Association, College (Sororities)
102 Sproul Hall
(510) 642-5171
www.calgreeks.com

Personnel Office (Human Resources)
2150 Shattuck Avenue
Suite 750
(510) 642-9046
TDD: (510) 643-9421
hrweb.berkeley.edu

Police
1 Sproul Hall
(510) 642-6760
Emergency: 911; from a cell phone: (510) 642-3333
police.berkeley.edu

Sexual Assault Services
2222 Bancroft Way
Social Services:
Sexual Assault Counseling and Advocacy
(510) 642-6074; after hours: (510) 643-7197
Health Promotion:
Sexual Assault Prevention and Education
(510) 642-7202
Urgent Medical Care Information:
(510) 642-4111
uhb.berkeley.edu/students/
medical/sexualassault.shtml

Shuttle Escort Service/The BearWALK Service
(510) 642-WALK (9255)
Sports, Intramural, and Recreational
Recreational Sports Facility
2301 Bancroft Way
(510) 643-6822
calbears.berkeley.edu/intrasports

Strawberry Canyon Recreation Area
Haas Clubhouse
Centennial Drive
(510) 643-6720
calbears.berkeley.edu

Student Learning Center
César Chávez Student Center
Lower Sproul Plaza
(510) 642-7332
slc.berkeley.edu

Summer Sessions
1995 University Avenue
(510) 642-5611
Fax: (510) 642-2877
summer.berkeley.edu

Tele-BEARS
telebears.berkeley.edu

Tours, Campus
Visitor Services
101 University Hall
(510) 642-5215
visitors.berkeley.edu

Transcripts
Office of the Registrar
120 Sproul Hall
(510) 642-0668
registrar.berkeley.edu

UC Berkeley Extension
1995 University Avenue
(510) 642-4111
www.unex.berkeley.edu

Vision Care
School of Optometry Clinics
200 Minor Hall
(510) 642-2020
Tamb Center: (510) 643-2020
spectacle.berkeley.edu

Visitor Services
101 University Hall
(510) 642-5215
visitors.berkeley.edu
New ideas, fresh perspectives, and lively discussion are the lifeblood of a university, and Sproul Plaza, Berkeley’s historic hub of student engagement, pulses with them every day. Always hopping, the plaza brings the campus together, as it did on Inauguration Day 2009, when 10,000 people gathered to watch history happen on the Jumbotron.
History of the University

The roots of the University of California go back to the gold rush days of 1849, when the drafters of the State Constitution, a group of vigorous and farsighted people, required the legislature to “encourage every suitable means the promotion of intellectual, scientific, moral and agricultural improvement” of the people of California. California had few families in 1849 and few children to educate, but these early planners dreamed of a university which eventually, “if properly organized and conducted, would contribute even more than California’s gold to the glory and happiness of advancing generations.”

The university that was born nearly 20 years later was the product of a merger between the College of California (a private institution) and the Agricultural, Mining, and Mechanical Arts College (a land grant institution). The College of California, founded by former Congregational minister Henry Durant from New England, was incorporated in 1855 in Oakland. Its curriculum was modeled after that of Yale and Harvard, with the addition of modern languages to the core courses in Latin, Greek, history, English, mathematics, and natural history. With an eye to future expansion, the board of trustees augmented the college’s Oakland holdings with the purchase of 160 acres of land four miles north, on a site they named Berkeley in 1866. This original tract was to be considerably expanded over the years.

While the College of California was in its infancy, efforts continued in the state legislature to create a public educational institution, and in 1866 the legislature took advantage of the federal Morrill Land Grant Act of 1862 to establish the Agricultural, Mining, and Mechanical Arts College. The college was to teach agricultural, mechanical arts, and military tactics “to promote the liberal and practical education of the industrial classes in the several pursuits and professions in life.” Scientific and classical studies were not to be excluded but were of secondary importance.

The boards of trustees of the College of California and the Agricultural, Mining, and Mechanical Arts College decided to merge the two schools to their mutual advantage—one had land but insufficient funds and the other had ample public funds but no land—on the condition that the curricula of both schools be blended to form “a complete university.” On March 23, 1868, the governor signed into law the Organic Act that created the University of California. The new university used the former College of California’s buildings in Oakland until South Hall and North Hall were completed on the Berkeley site (South Hall is still standing), and in September 1873 the University, with an enrollment of 191 students, moved to Berkeley.

Fiscal problems plagued the new University, and it was not until the 20-year presidency of Benjamin Ide Wheeler beginning in 1899 that finances stabilized, allowing the University to grow in size and distinction. Early in this period Phoebe Apperson Hearst, one of the University’s most generous benefactors, conceived of and financed an international competition for campus architectural plans that, she stipulated, “should be worthy of the great University whose material home they are to provide for.”

The competition, won by Emile Bénard of Paris, brought Berkeley not only a building plan but worldwide notoriety. The London Spectator wrote, “On the face of it this is a grand scheme, reminding one of those famous competitions in Italy in which Brunelleschi and Michael Angelo took part. The conception does honor to the nascent citizenship of the Pacific states…” At Oxford University, which at the time was strapped for funds, a Latin orator said, “There is brought a report that in California there is already established a university furnished with so great resources that even to the architects (a lavish kind of men) full permission has been given to spare no expense. Amidst the most pleasant hills on an elevated site, commanding a wide sea view, is to be placed a home of Universal Science and a seat of the muses.”

John Galen Howard, the supervising architect charged with implementing the Bénard plan, took advantage of his “permission to spare no expense” and developed a style of architecture that reinterpreted the grace, dignity, and austerity of classical lines to suit the California environment. Some of the campus’s most elegant and stately structures were built during Howard’s tenure, among them the Hearst Memorial Mining Building (1902-7), the Hearst Greek Theatre (1903), California Hall (1905), Doe Library (1911-17), the Campanile (1914), Wheeler Hall (1917), Gilman Hall (1917), and Hilgard Hall (1918).

President Wheeler, a classical scholar and able administrator, attracted library and scholarship funds, research grants, and a distinguished faculty to the University, and its reputation grew, particularly in the fields of agriculture, the humanities, and engineering. Many new departments were added in the early years of his presidency, and existing departments expanded. Summer sessions were begun in 1899 to train physics and chemistry teachers and before long broadened their scope.

The University grew with the rapidly expanding population of California and responded to the educational needs of the developing state. In the early 1900s the University’s new College of Commerce (now the School of Business Administration) trained students for export trade with the Orient and funneled graduates into industries and businesses throughout the state. During the same period a foreign service training program was developed in response to State Department concern about the poor quality of consular personnel.

In 1930 Robert Gordon Sproul began a presidency that lasted three decades. His principal concern was academic excellence, and he was committed to attracting brilliant faculty in all fields. His success
was particularly evident in the physical and biological sciences. In the 1930s research on campus burgeoned in nuclear physics, chemistry, and biology, leading to the development of the first cyclotron by Ernest O. Lawrence, the isolation of the human polio virus, and the discovery of all the artificial elements heavier than uranium. Twenty members of the Berkeley faculty have been awarded Nobel Prizes for these and subsequent discoveries, as well as in literature and economics, for liberal arts kept pace with physical sciences. In 1966 Berkeley was recognized by the American Council on Education as “the best balanced distinguished university in the country.”

For historical resources about Berkeley, see the “Appendix” and the marginal notes on pages 50-53.

**The Berkeley Campus**

South Hall, the oaks along Strawberry Creek, and the eucalyptus grove link Berkeley to its beginnings over a century ago. While the campus has grown considerably since then, it has retained much of the tranquil beauty of its rural past and is now a park-like oasis in an urban setting. Students study, work, and relax among Neoclassical buildings, wooded glens, and parklands spread across 1,232 scenic acres overlooking the San Francisco Bay.

With over 34,000 students, a distinguished faculty, over 350 degree programs, and alumni in positions of national and international leadership, Berkeley today is a large and complex institution, offering students a vast range of scholarly endeavor and a wide arena for personal growth.

The campus is surrounded by wooded, rolling hills and by the city of Berkeley (population 103,000). Berkeley has a long history as one of America’s most lively, culturally diverse, and politically adventurous cities. The surrounding San Francisco Bay Area offers culture, entertainment, and natural beauty without rival, much of which is accessible by BART (Bay Area Rapid Transit).

All of Northern California, with its great variety of cultural and recreational opportunities, is within easy reach. San Francisco is just over the bridge; the wine country and the Point Reyes National Seashore are a short drive north; the Monterey Peninsula and Big Sur, a short drive south; and Lake Tahoe, the Sierra Nevada mountains, and Yosemite National Park are close enough for weekend skiing and backpacking trips.

**Tradition of Excellence**

Berkeley is internationally noted for its academic excellence. Its faculty includes seven Nobel laureates, 130 members of the National Academy of Sciences, 85 members of the National Academy of Engineering, and more NSF Young Investigators than there are at any other university in the country. In national surveys, Berkeley’s academic departments consistently rank among the top five in the country.

By any standard, Berkeley ranks as one of the world’s leading intellectual centers, renowned for the size and quality of its libraries and laboratories, the scope of its research and publications, and the distinction of its faculty and students. More students who earn bachelor’s degrees at Berkeley complete Ph.D.’s than graduates of any other university in the country.

**Superior Research**

The range of research projects at Berkeley is broad, reflecting the diversity of disciplines represented. The campus provides a distinctive environment in which faculty and students seek to expand fundamental knowledge of human nature, society, and the natural world.

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A Campus Chronology

1855: A private institution called the College of California is incorporated in Oakland.

1860: The College of California opens its doors in Oakland to 10 freshmen.

1866: The trustees of the College of California vote to name the new town that will surround the college at its permanent site after Irish clergyman and philosopher George Berkeley.

1868: The governor signs a bill by which the College of California will disincorporate and become the core of a state-supported University of California. March 23 is thereafter celebrated as Charter Day of the University.

1869: The University begins instruction of 38 male students in Oakland.

Henry Durant named first president of the University.

1870: Regents vote to admit women to the University on equal terms with men. Seventeen women register.

1871: The first Greek letter society established at the University is the Iota chapter of Zeta Psi.

1872: Founding of the University Alumni Association, later renamed the California Alumni Association.

(continued on next page)
1873: Twelve young men, thereafter known as “the 12 apostles,” receive the first diplomas of the University.

First classes open at Berkeley.

1887: The Associated Students of the University of California is formed to resolve conflicting interests of numerous student societies.

1905: The University purchases a collection of western Americana and Spanish-American historical materials from Hubert Bancroft, and founds the Bancroft Library, now one of the world’s outstanding collections.

1912: Doe Library is dedicated.

1913: Sather Gate, one of the campus’s principal landmarks, is completed.

1914: The Jane K. Sather Tower, more popularly known as the Campanile for its resemblance to the campanile of St. Mark’s Plaza in Venice, takes its place as Berkeley’s chief landmark.

1929: The first residence hall for students, Bowles Hall, opens. It was funded by private gifts.

1930: International House, one of four worldwide funded by John D. Rockefeller, opens at Berkeley.

1931: Ernst Lawrence and Stanley Livingston conduct on campus the first successful operation of a cyclotron.

1941: Professors Glenn Seaborg and Edwin McMillan and two colleagues discover plutonium in experiments conducted in Gilman Hall.

Research programs at Berkeley are conducted within teaching departments, institutes, and centers (sometimes referred to as Organized Research Units or ORUs). Institutes and centers are established and administered separately from the teaching units. They are interdisciplinary in nature and organized around the work of a group of faculty and graduate students whose research interests transcend traditional disciplinary boundaries. They do not offer courses of instruction or degrees, although several work in conjunction with interdepartmental instruction programs which lead to bachelor’s or advanced degrees. Institutes and centers provide invaluable experience for graduate students in basic and applied research and greatly enhance Berkeley’s educational program and the overall academic quality of the University.

Please see the “Appendix” in this catalog for a listing of the campus ORUs.

Commitment to Teaching

Every year, the Berkeley campus honors several of its outstanding faculty members by presenting them with the Distinguished Teaching Award (teaching.berkeley.edu/cta.html). More than 227 faculty members from all over campus have been recognized this way for their outstanding teaching. (Recipients of Distinguished Teaching Awards have daggers by their names in the “Courses and Curricula” section of this catalog.)

At a large institution often known more for its research, such recognition serves to remind us all of the importance of teaching and the value we place on it. Students who attend Berkeley have the benefit of learning from world-renowned theorists and researchers who are also often distinguished teachers. Recipients of past awards have pointed out that their research is often enhanced by the questions and responses of their students in the classroom, while at the same time, the excitement of generating new ideas and discoveries in research stimulates them to become better teachers.

Good teachers do more than convey knowledge in a field. They clarify for students the relationships between their subject and other fields of knowledge; they ignite in their students a desire to learn; and as a consequence they often have a life-long impact on their students’ lives and careers.

Good teaching, of course, not limited to the people who have received Distinguished Teaching Awards. You will encounter excellent teachers in all departments, all disciplines, in large classes and in seminars.

There is no one way to teach well; the styles you will encounter will be as varied as the courses you take, from eye-opening lectures to discussion sections in which you will clarify and define your own ideas. In teaching, as in every aspect of Berkeley, diversity is the key to a rich and challenging educational experience.

Student Diversity

The quality of Berkeley’s student body complements the stature of its faculty. Most students are Californians, but nearly every state and 100 foreign countries are represented. The student body can best be characterized by its diversity; more than half of the students are minorities, helping to produce the wide range of opinion and perspective essential to a great university. Many programs—such as African American Studies, Asian American Studies, Chicano Studies, and Native American Studies—reflect this diversity.

Organization and Administration

The University of California

The University of California comprises 10 campuses, each with a distinctive character. The San Francisco campus was added to the University in 1873, the Los Angeles campus in 1919, Riverside in 1954, Santa Barbara in 1958, San Diego and Davis in 1959, and Santa Cruz and Irvine in 1965. UC Merced opened as UC’s 10th campus in fall 2005. The campuses have four law schools, five medical schools, and schools of architecture, business administration, education, engineering, and many others.

UC campuses have a full-time faculty of about 8,800, and the total enrollment is about 220,000 students, most of them California residents. Nearly 25 percent are graduate students. Some 480 laboratories, extension centers, and research and field stations strengthen teaching and research while providing public service to California and the country.

Administration

Under the State Constitution, the government of the University is entrusted to the Board of Regents. The regents appoint the president of the University, and with the president’s advice, appoint the chancellors, directors of major laboratories, provosts, and deans who administer the affairs of the individual campuses and other divisions of the University. Authority in academic matters is delegated by the regents to the Academic Senate, which determines academic policy for the University as a whole.

The Board of Regents includes seven ex officio board members and 18 members who are appointed by the governor for 12-year terms after consultation with an advisory committee. In addition, the regents appoint a student regent for a one-year term as a voting board member with full rights of participation. The chair and vice chair of the Academic Council serve as faculty representatives to the board and participate fully in all discussions. A constitutional amendment provides that “Regents shall be able persons broadly
reflective of the economic, cultural, and social diversity of the State, including ethnic minorities and women.” They shall have “full powers of organization and government, subject only to such legislative controls as may be necessary to ensure compliance with the terms of the endowments of the University and the security of its funds.”

The president is executive head of the 10-campus University system. The Office of the President, located in Oakland, is the University’s central administrative headquarters. There are seven divisions—Academic Affairs, Agriculture and Natural Resources, Business Operations, External Relations, General Counsel, Health Sciences and Services, and Laboratory Management. The Office of the President performs administrative functions for the University as a whole and supports all campus operations.

Each of the campuses has a chancellor as its chief administrative officer. The chancellor is responsible for the organization and operation of the campus, including academic, student, and business affairs. For the names of University regents, officers, and chancellors, see the “Appendix” in this catalog or visit universityofcalifornia.edu/regents/brochure.pdf.

The Academic Senate, consisting of faculty and certain other teaching titles, determines the conditions for admission and degrees, subject to the approval of the Regents; authorizes and supervises courses and curricula; and advises the University administration on the important matters of faculty appointments and promotions and budgets.

Students participate in policy-making at both the campus and Universitywide levels.

Colleges and Schools

The Berkeley campus is divided into 14 colleges and schools, most of which are subdivided into departments. Colleges accept students directly from high school or as transfers from other institutions and offer undergraduate instruction, normally as a four-year program, leading to the bachelor’s degree. Schools usually begin instruction at the upper division level and provide students with preparatory training for specific professions.

Each of the colleges and schools has its own regulations for earning degrees and is headed by a dean who has final authority for all academic decision making. Students are encouraged to contact the deans for assistance with academic matters.

1952: Clark Kerr, professor of industrial relations, is named Berkeley’s first chancellor, with responsibility for all but Universitywide policies. Kerr later becomes president of UC.

1961: The UC Regents name a fountain on Sproul Plaza after a German short-haired pointer named Ludwig von Schwanenberg, who had played in it daily.

A new student union opens, now called the Martin Luther King Jr. Student Union.

1964: Students demonstrate against rules that prohibited certain political activities on campus, actions that later become known as the Free Speech Movement.

1969: A student strike in support of establishment of an independent Third World College and protests over use of a three-acre plot later called People’s Park convey an image of Berkeley that is still strong in the public mind.

1989: Berkeley faculty approves the American Cultures requirement that requires students to take a course that examines the experiences in and contributions to American culture of a mixture of ethnic groups. Faculty call it the “great educational experiment of the 1990s.”

1992-93: Celebration of the 125th anniversary of the founding of the University of California.

(continued on next page)
Academic Resources

The University Library

Berkeley’s library system (lib.berkeley.edu) offers one of the best research collections in the country. The system consists of Doe Library, Moffitt Library, the Gardner Stacks (underground), the Bancroft Library, which houses rare books and western Americana, and 17 subject specialty libraries serving particular academic disciplines. All libraries promote information literacy and academic success by teaching students and faculty how to use a wide range of print and online information resources now available in the library. The library’s collections and services are complemented by a variety of special purpose or “affiliated” libraries on campus. The holdings of the University library system include more than ten million volumes, 114,000 current serial publications (53,000 are electronic), six million microform items, 400,000 maps, 88,000 sound recordings, 44,000 videos, and hundreds of thousands of government documents.

Most of the Berkeley humanities and social sciences materials are located in Moffitt Library and the Gardner Stacks. Moffitt Library, with its 150,000 volumes, is designed as a core collection of “best books” in the liberal arts, serving a broad campus readership of undergraduates and non-specialists. The Gardner Stacks, a four-story underground addition connecting Doe and Moffitt libraries, houses the humanities and social science research collection. You can enter the Gardner Stacks through either Doe or Moffitt libraries. Access is limited to card holders, including UC faculty, students, and staff. The UC community can find personalized research and reference assistance related to humanities and social sciences on the second floor of Doe Library.

The Media Resources Center on Moffitt’s first floor provides spoken word and visual image material on a wide variety of subjects for student research and class reserves, and the equipment to use these materials.

The Bancroft Library, devoted primarily to the documentation of western North America, maintains the largest collection of Mark Twain archives in the world. The Bancroft Library returned to its newly renovated space in the Doe Annex in 2008. The new C. V. Starr East Asian Library contains rare editions of early manuscripts, scrolls, woodblock and engraved maps, stone rubbings, and bronze inscriptions. Special collections elsewhere in the library system include some of the rarest books and illuminated manuscripts in the world.

As a student you are entitled to use the libraries upon presentation of your current Berkeley student photo ID card. Borrowing privileges and access to the collections vary from unit to unit. Library tours are scheduled throughout the year, and library staff are available to help you at various information and reference desks.

For information about the campus libraries or help in using the online catalogs, ask at the Reference Desk in Doe Library (510) 643-6657, or consult the library’s web site at lib.berkeley.edu

Affiliated Libraries

The library system also includes 11 affiliated libraries that contain specialized research collections of unique and often difficult-to-locate materials associated with organized research units, academic departments, and professional schools at Berkeley. These libraries complement the University library collections and primarily serve the teaching and research needs of faculty and students, although many of them also serve the campus community at large and the general public.

Studying Abroad

Both undergraduate and graduate students may earn University credit while studying abroad at some 130 study centers around the world. See the study abroad sections in the chapters on undergraduate education (page 44) and graduate education (page 61).

Lawrence Hall of Science

The Lawrence Hall of Science (LHS) is both a public science center and a research unit in pre-college science and mathematics education. LHS programs are designed to involve participants actively in science and math explorations. Permanent and traveling exhibits emphasize hands-on discovery for the general public as well as for school children. Recent additions to the hall include “Science on a Sphere,” “Forces That Shape the Bay,” and “KidsLab.” The hall also has an Animal Discovery Room and a planetarium.

LHS serves schools and families throughout Northern California and beyond with classes, workshops, science shows, and festivals. After-school classes are also available, as well as summer day- and residential camps.

Available for rental by campus and outside groups, LHS can accommodate a wide range of events. Outside groups can also rent facilities at the hall for meetings, reunions, and birthday parties.

Science curricula developed at LHS are used throughout the world. Teacher-training workshops actively involve participants in curriculum development. Teachers from throughout the United States participate in professional development programs at LHS.

LHS is open daily from 10 a.m. to 5 p.m. There is an admission fee, but UC Berkeley students are admitted free. Transportation to and from LHS is available on a shuttle bus on weekdays, excluding UC holidays. For more information, call (510) 642-5132 or send an e-mail to lhsinfo@berkeley.edu. You can also visit lhs.berkeley.edu.

1995: Chancellor Chang-Lin Tien launches the Berkeley Pledge, an ambitious outreach effort to help a greater number of disadvantaged Bay Area youngsters become eligible for a UC education.

1997: Chancellor Robert Berdahl announces ambitious SAFER plan to improve seismic safety on campus and guide retrofitting and new construction of campus buildings.

1999: Berkeley launches Health Sciences Initiative, a bold new effort to understand and solve today’s major health problems by uniting physical and biological scientists and engineers.

Haas Pavilion, a striking remodel of the old Harmon Gym, opens with double the seating capacity of the former structure.

2000: Daniel L. McFadden, professor of economics, receives the Nobel Prize in economics.

2001: George Akerlof, professor of economics, becomes fourth Berkeley economist in 20 years to win the Nobel Prize in economics.

Two of four California Institutes for Science and Innovation—unique UC/state/industry research partnerships—are funded by the state at Berkeley with other UC campus partners. CITRIS (the Center for Information Technology Research in the Interest of Society), headquartered at Berkeley, looks for new IT solutions to tough challenges, and QB3 (the California Institute for Quantitative Biomedical Research) develops solutions for urgent issues in the fields of health, energy, and the environment. (continued on next page)
Berkeley Natural History Museums

The Berkeley Natural History Museums (BNHM) is a consortium of six independent museums at Berkeley: the Essig Museum of Entomology, the Museum of Vertebrate Zoology, the Phoebe Hearst Museum of Anthropology, the UC Botanical Garden, the UC Museum of Paleontology, and the University and Jepson Herbaria. This consortium makes up the largest university-based national history museum in the world. Individually, each is a world-class natural history museum with collections and resources typically ranked in the top 10 in the nation in their respective disciplines. Unlike most other museums, the BNHM are part of a premier research university, which provides a setting for full integration of research, teaching, educational outreach, and technology. Thus, the BNHM provide a uniquely unified approach to the study and public dissemination of all aspects of biodiversity from molecular evolution to human prehistory.

The BNHM house more than 30 million natural history objects and specimens that are quite literally priceless. They support the research and teaching of more than 60 Berkeley faculty and researchers and countless scientists around the world. In addition to the faculty who serve as curators, there are 22 professional staff members whose duties include conservation and curation, system administration, and leadership of museum and campus outreach programs. The BNHM collections also support undergraduate, graduate, and postdoctoral education and training; collections are used in classes in more than 10 departments and at least three colleges. Collection materials have an impact on thousands of students annually during their course of study at Berkeley.

Phoebe A. Hearst Museum of Anthropology

Facilitating scholarly research and educating undergraduate and graduate students are among the primary functions of the Hearst Museum. The museum also presents changing exhibits and programs to meet the varied educational and aesthetic interests of the University community and general public. There are more than four million objects in the museum’s holdings. Among these are major collections of ethnographic and archaeological artifacts from California, as well as archaeological collections from Peru and Egypt. The exhibit gallery and Hearst Museum Store are open Wednesday through Saturday from 10 a.m. to 4:30 p.m., Sundays noon to 4:30 p.m., and closed on holidays. General admission is free. Groups of 20 or more require advance booking and are charged a modest admission fee. The gallery is wheelchair accessible. For further information, please call (510) 642-3682 or e-mail pahma@berkeley.edu. You can also visit hearstmuseum.berkeley.edu.

Botanical Garden

The UC Botanical Garden at Berkeley is a living museum, featuring one of the most diverse plant collections in the United States. Established in 1890, the garden moved in 1925 to its current 34-acre location at 200 Centennial Drive, Berkeley, overlooking San Francisco Bay. The garden is open to the public and is famous for its large number of rare and endangered species. It is a member of the Berkeley Natural History Museums group. This premier collection ranks among the world’s leaders in the quality and diversity of its plants and their scientific importance. The collection comprises over 12,000 different kinds of plants from all around the world, collected from the wild with scientific data.

The collection is displayed in beautiful, naturalistic plantings arranged by geographic region. The collection is derived from California, Asia, southern Africa, the Mediterranean region, South America, Australasia, Mexico and Central America, the New World deserts, and eastern North America. Greenhouse collections include cacti and succulents, carnivorous plants, ferns, and orchids. Ethnobotanical collections include heritage roses, European herbs, Chinese medicinal herbs, and crops of the world.

The garden, a national leader in developing environmental education curricula, is building a program in plant conservation. The garden is available for University research projects and class teaching purposes. Free guided tours are offered to the public on Thursday, Saturday, and Sunday at 1:30 p.m. Group tours, including school tours, are available by arrangement. The garden is open from 9 a.m. to 5 p.m. every day except Thanksgiving, December 24, 25, and 31, January 1, Martin Luther King Jr. Day, and the first Tuesday of each month. Admission is free for garden members, faculty, students, and staff.

2001 (cont.): Seven-year Campaign for the New Century raises $1.4 billion for Berkeley, the most ever raised by a public university without a medical school.

2003: The Bancroft Library takes Mark Twain into the 21st century by electronically publishing 700 of his letters online. Berkeley’s library houses the world’s largest collection of Twain’s writings, photos, scrapbooks, and books from his personal library.

2004: Campus dedicates site for the new Chang-Lin Tien Center for East Asian Studies.

2006: Cosmologist George Smoot wins the Nobel Prize in Physics, becoming Berkeley’s 20th faculty laureate.

The Richard C. Blum Center for Developing Economies is launched at Berkeley to achieve significant—and financially sustainable—solutions to problems affecting the nearly 3 billion people living on less than $2 a day.

2007: Berkeley leads a collaboration to create an Energy Biosciences Institute and wins $500 million in funding from BP for the research effort. The institute will focus on biofuels, turning plants into transportation fuels.

The Stanley Biosciences and Bioengineering Facility opens, bringing the campus a new style of interdisciplinary building, housing work in physical sciences, biosciences and engineering.
Admission is $7; $5 for UCB California Alumni Association members, UC Retirement Center members, and Osher Lifelong Learning Institute members; $5 seniors (65 and older) and juniors (13-17); $2 children (5-12); and free for children under 5. Note: Admission is free to all on the first Thursday of the month. Transportation to and from the garden is available on a campus shuttle bus on weekdays, excluding UC holidays. For further information, please call (510) 643-2755 or visit botanicalgarden.berkeley.edu.

Berkeley Language Center (BLC)
BLC offers a wide array of pedagogical and technological services to students and language instructors. Services include a Second Language Acquisition/ applied linguistics library, a lecture series on the methodology of SLA, a circulating collection of foreign language media, listening and viewing facilities, computer labs and high-tech classrooms, a multimedia development lab, an audio recording and digitizing studio, media duplication services, and equipment. The BLC houses an extensive collection of language resource materials, language instruction in more than 100 languages, and archival collections of linguistic field work and noteworthy University speeches and events. For further information, call (510) 642-0767 or visit blc.berkeley.edu.

Berkeley Summer Sessions
More than 500 courses in 70 academic disciplines are offered in the summer. Students in good standing at any UC campus or at other colleges or universities are eligible for enrollment. Summer study is also open to adults willing to commit to a serious course of study, and to high school juniors and seniors. Students choose from five sessions of varying lengths; evening and online courses are also available. They can also earn credit by participating in special programs, including international travel study and academic internships.

All Summer Sessions courses are taught by both regular and visiting faculty. Fees vary with the number of units taken and type of student (UC or visiting). For more information, go to summer.berkeley.edu.

Exchange and Cross-Registration Programs
Students may participate in cross-registration programs with Mills College; Sonoma State University; San Francisco State University; California State University, East Bay; Holy Names University; Dominican University; John F. Kennedy University; and St. Mary’s College. In addition, UC Berkeley students may attend a class each semester at any of the other UC campuses, California state universities, or community college systems. Graduate students may participate in exchange programs with
other University of California campuses, Stanford University, the Graduate Theological Union, and a number of colleges and universities that participate in the Exchange Scholar Program. See the exchange and cross-registration program sections in the chapters on undergraduate and graduate education.

**UC Berkeley Extension**

UC Berkeley Extension is the continuing and professional education branch of the University, linking the campus to the community. A self-supporting unit of the University, Extension offers more than 1,400 courses each year. Evening and weekend courses offer opportunities to prepare for career advancement, earn college credit, pursue intellectual and cultural interests, keep abreast of current research, and examine critical issues in society. For students seeking a planned sequence of study, Extension offers more than 40 multi-course certificate programs and professional sequences in fields such as marketing, finance, sustainable design, and biotechnology.

While courses are open to the public, 90 percent of Extension students have bachelor’s degrees, and many have advanced degrees. Instructors are drawn from the campus, the business world, the arts and sciences, and the professions.

UC Berkeley Extension courses are held at locations around the Bay. Extension also offers a travel/study program, including a summer program at Oxford; residential programs and short courses for international students; custom-designed contract training programs; and more than 120 online courses.

The Fall Program for Freshmen, offered through Extension and designed in cooperation with the College of Letters and Science and the College of Engineering, provides a liberal arts curriculum each fall for 500 freshmen admitted for the following spring semester. The program enables these new students to complete the full academic year of study.

Many Berkeley campus courses in regular session are also open to non-degree students through an Extension enrollment option called Concurrent Enrollment. The consent of the instructor and the department chair (and in some cases the dean of the school or college) are required, and enrollment for credit is optional. You may obtain full details and an application form at www.unex.berkeley.edu/info/concur.php.

For more information, call (510) 642-4111, visit www.unex.berkeley.edu, or write to UC Berkeley Extension, 1995 University Avenue, Suite 110, Berkeley, CA 94704-7000.

**Cultural and Recreational Resources**

### The University of California, Berkeley Art Museum and Pacific Film Archive (BAM/PFA)

The University of California, Berkeley Art Museum and Pacific Film Archive is the major visual arts museum serving the University community. Facilities include galleries, a fine arts bookstore, a sculpture garden, a café, and a film theater and film library.

Every year, the museum presents approximately 15 exhibitions; some are nationally circulating and others originate at the museum. A permanent collection of Western and Asian art is on display on a rotating basis. The MATRIX program is a changing exhibition of contemporary art.

Special study collections are available to students and faculty, works in storage can often be made available for study upon request, and various exhibitions are prepared for and by University classes and seminars. In addition, the museum has internship opportunities available for advanced students who receive practical experience by assisting in museum work.

The museum’s film department, the Pacific Film Archive (PFA), is one of the major film exhibition centers in the country, offering programs of international cinema to the public. PFA maintains a study collection of 12,000 prints and 8,000 books and provides a media information service and facilities for both film study and research screenings.

BAM/PFA also presents an extensive education program including guided tours in the galleries; lectures by art historians, film critics, and scholars from a wide variety of disciplines; as well as talks by contemporary artists and filmmakers.

Gallery hours are 11 a.m. to 5 p.m. Wednesday through Sunday. Admission to gallery exhibitions is free for Berkeley students, staff, and faculty. For more information, contact BAM at 2626 Bancroft Way, (510) 642-0808; PFA Theater at 2575 Bancroft Way, (510) 642-1437; or visit bampfa.berkeley.edu.

### Music, Drama, Dance

The University offers a broad variety of activities in the arts and humanities. These include:

**Music**—Students may enroll in a variety of student performing groups for credit through the Department of Music, 104 Morrison Hall, (510) 642-2678; auditors are also welcome in most groups. The African Music Ensemble, Chamber Chorus, University Wind Ensemble, University Gospel Chorus, University Baroque Ensemble, Javanese Gamelan, University Chorus, and University Symphony Orchestra are included; many of these groups give concerts every semester. The Department of Music also presents free
noon concerts on Wednesdays in Hertz Hall. Extra-curricular musical groups are the UC Jazz Ensemble, (510) 642-5062; the Cal Marching Band, (510) 642-6704; and Student Musical Activities—Vocal, (510) 642-3880.

**Theater and Dance**—The Department of Theater, Dance, and Performance Studies offers many opportunities for students interested in the arts. Credit is offered for a full range of courses in the history and theory of performance and for all aspects of participation in theater and dance productions staged on campus: acting, dancing, directing, designing, stagecraft, and choreography. For information, please call (510) 642-1677, e-mail ugprograms@theater.berkeley.edu, or go to theater.berkeley.edu.

The Student Union Program, Entertainment, and Recreation Board (SUPERB) is a student-run entertainment production company that produces a wide range of events, including the Berkeley Film Series in Wheeler Auditorium, concerts in The Bear’s Lair and on Lower Sproul Plaza, comedy nights in The Bear’s Lair, annual chess tournaments in Pauley Ballroom, free sneak previews, special events, and more. All students are welcome to get behind the scenes of SUPERB events. SUPERB is a part of the ASUC (Associated Students of the University of California). For more information, contact SUPERB at 4 Eshleman Hall, (510) 642-7477, or go to superb.berkeley.edu

**Cal Performances**—A year-round program of world-class, professional dance, music, and theater presentations. Registered Berkeley students receive a half-price discount and $10 student rush tickets, as available. Berkeley faculty and staff receive a $5 discount. For information or reservations, call (510) 642-9988 or visit calperfs.berkeley.edu.

**Cal Performances**—A year-round program of world-class, professional dance, music, and theater presentations. Registered Berkeley students receive a half-price discount and $10 student rush tickets, as available. Berkeley faculty and staff receive a $5 discount. For information or reservations, call (510) 642-9988 or visit calperfs.berkeley.edu.

**Physical Education, Sports, and Recreation**

Each year more than half the Berkeley student body regularly uses the campus physical education, sports, and recreation facilities. The campus has four gymnasia; four swimming facilities; four weight rooms; squash, handball, racquetball, and tennis courts; a martial arts room; and two 440-yard tracks. The atrium of the Recreational Sports Facility (RSF) houses many cardio machines, including Precor cross-trainers, treadmills, stairmasters, bicycles, rowing machines, and more. Registered students can purchase a semester membership to use these facilities.

The **Physical Education Program** offers physical activity classes to students in aquatics, sports, dance, combatives, and exercise. Instruction is directed toward improving performance skills, learning about personal wellness and fitness, and developing and maintaining physical fitness. Elementary and intermediate classes are provided in many activities, and advanced classes are offered in certain areas. All classes are for credit and are open to all students. (See the online Schedule of Classes for specific classes each semester.) For further information, consult the program office at 200 Hearst Gymnasium, e-mail peucb@berkeley.edu, or go to pe.berkeley.edu.

**The Department of Recreational Sports** offers a wide range of recreational and competitive activities:

The **FITWELL** program is open to students, faculty, staff, and the community. Participants can take a wide variety of noncredit classes, among them Capoeira, dance, massage, yoga, water exercise, tennis, strength training, and more.

**Massage Therapy** offers 30-, 60-, and 90-minute massage appointments.

**CalSTAR** (Sports, Training, and Recreation) assists disabled users who are interested in recreational programs. We offer volunteer assistants as well as equipment.

**Cal Intramural Sports** offer Berkeley students, staff, and faculty a diverse range of organized team and individual sports on a competitive or recreational level, as well as job opportunities through officiating.

**Cal Sport Clubs** offer Cal students, staff, faculty, and alumni national and international competitions, recreation, and instruction in 28 sports.
Cal Rec Club is a membership program available to Berkeley students, faculty, staff, and the community. Full membership includes use of the RSF, which features an Olympic-size swimming pool; weight rooms and cardiovascular machines; courts for squash, handball, racquetball, volleyball, basketball, and badminton; and table tennis. Members may also use the swimming pools at the Hearst Gymnasium, the Golden Bear Rec Center, and Strawberry Canyon. The Group Exercise Program offers drop-in aerobics and fitness classes including step, low-impact, fitness boxing, and more—and is free to members. Personal Fitness Training provides individual consultation with a highly qualified fitness trainer who best suits your needs, limitations, and aspirations. For more information, go to recsports.berkeley.edu.

Cal Adventures, Berkeley’s outdoor recreation program, offers a wide variety of classes, trips, youth camps, and custom events. Activities include sailing, sea kayaking, windsurfing, backpacking, rock climbing, whitewater rafting, wilderness first aid, teambuilding, and instructor training courses. The program is open to the community, as well as to students, faculty, and staff at discounted rates.

Cal Adventures visits Mt. Tamalpais, Tomales Bay, Mono Lake, Yosemite, the High Sierra, and other beautiful locations. Facilities include an aquatic center at the Berkeley Marina, and a ropes course at Strawberry Canyon. Office hours are Monday through Friday, 9 a.m.-6 p.m. For more information, call (510) 642-4000 or go to calbears.berkeley.edu/ outdoor. For a free brochure, write to Cal Adventures, 100 Strawberry Canyon Center #4430, University of California, Berkeley; Berkeley, CA 94720-4430.

Other Resources

Information Technology (IT) on Campus
The Berkeley campus provides high-speed Internet access and a full range of IT services. Network connections are available in computer facilities, classrooms, and residence halls. Wireless connections are also available. Free e-mail service is available to registered students, and dialup access is offered at a modest cost.

Computer facilities—Computer facilities are available throughout the campus for general use. For locations and current schedule, visit the Workstation and Microcomputer Facilities web site at facility.berkeley.edu.

Electrical Engineering and Computer Sciences, the Haas School of Business, Chemistry, Physics, Engineering, and many other units have their own computing facilities. Check with your department for details.

IT resources and services—Most student services are online. Below are some of the many IT resources and services available at Berkeley:

Student Systems (sis.berkeley.edu) is a gateway to the most important student information resources online. A few of the links on this site include those to Bear Facts and the online Schedule of Classes.

CalNet Gateway (calnet.berkeley.edu) is the place to set up a CalNet ID for accessing campus online services.

CalNet Directory Services (directory.berkeley.edu) is a searchable directory containing records for all current faculty, students, and staff at Berkeley. All students are required to maintain a current “@berkeley.edu” e-mail address in this directory.

CAL Quiz
No. 3

What do the carved plaques on the upper walls of South Hall represent?
(Answer on page 524.)
CalMail (calmail.berkeley.edu) is the Berkeley e-mail and web mail service for students, faculty, and staff. AirBears (airbears.berkeley.edu) service enables wireless access to the campus network.

The Scholar’s Workstation @ the Cal Student Store (thescholarsworkstation.com) offers a large variety of computers, peripherals, and software for sale at academic prices to the campus community.

Student Computing Consulting Service (sccs.berkeley.edu) is available to students for help with network access, C@B, Home IP, and AirBears.

The Social Science Computing Laboratory (SSCL) is open to graduate students and faculty in the social sciences and affiliates.

Educational Technology Services (ets.berkeley.edu) assists faculty with course web sites, multimedia, and classroom technologies.

Berkeley on iTunes U (itunes.berkeley.edu) offers full UC Berkeley courses, high-profile special events, and much more as free downloads through iTunes.

Legaldownloads (legaldownloads.berkeley.edu) provides legal music downloading alternatives to students.

IST Service Desk (ist.berkeley.edu/support/service-desk) answers general inquiries regarding computing, networking, and computer accounts offered by Information Services and Technology.

Security (security.berkeley.edu) provides information about campus computer, network, and information security.

iNews (inews.berkeley.edu) is the campus online IT news source that covers developments in information technology at Berkeley.

For complete and current lists of resources and services, visit the Technology @ Berkeley web site at technology.berkeley.edu and the Information Services and Technology web site at ist.berkeley.edu. The search facility on the UC Berkeley home page (berkeley.edu) is also a useful resource for finding current computing information.

California Alumni Association

Founded in 1872, the California Alumni Association (CAA) is the largest single-campus membership alumni association in the nation. Its aim is to serve both students and alumni while supporting the University in unique and powerful ways.

The Leadership Award Alumni Scholarship annually awards approximately $1 million to more than 1,000 undergraduates who demonstrate strong extracurricular leadership skills. The Achievement Award Program is a financial award for entering students who have participated in UC-affiliated outreach programs.

California Alumni Association is the primary vehicle to keep alumni connected to Berkeley. Currently, over 95,000 alumni are CAA members. Members receive numerous benefits, discounts, and services.

California Alumni Association publishes California magazine, operates the Lair of the Golden Bear family summer camp in the Sierra Nevada, sponsors Cal Discoveries educational alumni group travel, co-hosts Homecoming and class reunions, and maintains nearly 120 local alumni clubs throughout the world.

Cal alumni look to CAA for career networking and continuing education, social gatherings, and opportunities for volunteer work for their alma mater. Alumni participate in student outreach programs to attract future Berkeley students, interview prospective scholars, raise much-needed funds for CAA programs, and host special events for alumni gatherings around the world.

California Alumni Association is located on campus in Alumni House. The main information line is (510) 642-7026. CAA also has a Southern California office; call 1-877-CALALUM. For more information, go to alumni.berkeley.edu.

Visitor Services

The Visitor Center, located at 101 University Hall at the corner of Oxford Street and University Avenue, provides tours of the campus for individuals and groups. Information about the campus, student services, and the University community is available at (510) 642-5215. You may also visit the office or our web site at visitors.berkeley.edu.

Campus tours start at the Visitor Center Monday through Friday at 10 a.m. Weekend tours at 10 a.m. Saturday and 1 p.m. Sunday begin at Sather Tower, popularly known as the Campanile, the bell and clock tower in the center of campus. There is no charge for these 90-minute walking tours conducted by trained campus ambassadors. To make tour reservations, visit campustours.berkeley.edu/campus_tours.html.

Visitors can also download a free audio-guided walking tour of the campus to listen on their own MP3 player at itunes.berkeley.edu or a UC Berkeley by Phone Map at visitors.berkeley.edu.
Twain’s prolific papers illuminate his wit, life, and work

Scrapbooks, letters, photos, and manuscripts — the largest collection of original materials by and about Mark Twain — are in Berkeley’s Bancroft Library. There, students and scholars research the cantankerous and beloved American original, while staff make Twain treasures (such as an autobiography released for the writer’s 175th birthday) available to all.
Student Life

This section offers general information about student life on the Berkeley campus and brief summaries of some of the services and organizations available, arranged in alphabetical order. You may obtain more information from the appropriate office or from Resource, the student handbook, or at resource.berkeley.edu.

The ASUC
The Associated Students of the University of California (ASUC) is the official organization of Berkeley students. Membership in the ASUC is voluntary, although all students must pay the ASUC fees. This nonprofit organization, through its student-elected senate, is responsible for directing a large variety of student activities and serves as the official student spokesperson in University affairs. Graduate students also elect departmental representatives to the Graduate Assembly, which meets regularly in Anthony Hall. The ASUC also provides a wide range of programs and activities. Each year, roughly $600,000 is distributed to student activity groups, including associations, ethnic and cultural groups, and sports. The ASUC, moreover, sponsors vital programs such as student advocacy, (510) 642-6912; the Student Legal Clinic, (510) 642-9986; Renters’ Legal Assistance, (510) 642-1755; and the Student Union Program, Entertainment, and Recreation Board (SUPERB), (510) 642-7477.

The basic goals of the ASUC are to enhance the quality of life for both students and the community, as well as to increase the avenues for student participation in education and campus operations. Other important goals of the ASUC are to protect full freedom of assembly and expression in the University community and to facilitate academic and social responsibility. For more information, visit asuc.org.

Athletic Study Center
The Athletic Study Center, located in 179 César Chávez Student Center, offers academic support and advising for Berkeley’s student athletes. Services are geared to ensuring academic achievement through tutoring, study tables, computer labs, and staff advisers. For more information, call (510) 642-8402 or go to asc.berkeley.edu.

Career Center
The Career Center prepares undergraduates, graduate students, and alumni to make informed decisions about their futures by providing comprehensive resources, programs, and counseling on career development, internships, employment, and graduate school. The center offers career counseling, career assessments, a letter of recommendation service, professional and graduate school programs, internship programs, job listings and recruiting, and alumni career services.

The Career Center provides a variety of ways for Berkeley students to connect with employers and graduate program representatives. Some highlights are:
• Externships (short shadowing opportunities with employers)
• Career, internship, summer job, and graduate school fairs at which representatives meet with students
• Recruiting (employers visit the Berkeley campus to interview graduating students for positions)
• Online job and internship listings for part-time, summer, and full-time employment opportunities.

For more information, including access to our calendar of activities, go to career.berkeley.edu.

The Career Center is located at 2111 Bancroft Way, between Fulton Street and Shattuck Avenue. Hours are 9 a.m. to 5 p.m., Monday through Friday. Call (510) 642-1716 for more information.

See page 46 for information on internships.

Center for Student Conduct and Community Standards
The Center for Student Conduct and Community Standards, a component of Campus Life and Leadership, seeks to educate all community members on the behavioral expectations outlined in the Berkeley Campus Code of Student Conduct (Code) and promotes the values of integrity, civility, and responsibility through campus wide outreach. Student Conduct and Community Standards also administers the conduct process outlined in the Code. For more information, please visit studentconduct.berkeley.edu or call (510) 643-9069.
**Center for Student Leadership**

The Center for Student Leadership (CSL), a component within Campus Life and Leadership, is a great starting point for those looking to get involved on campus. CSL advisers coach students to positively impact their communities through student involvement and educational leadership development opportunities. They recognize more than 800 student organizations, including fraternities and sororities and a variety of organizations that focus on the arts, academics, culture, politics, professions, publications, religion, sports, service and social issues. Recognized student organizations have the opportunity to meet with CSL advisers, use campus facilities, and to apply for funding through the ASUC or Graduate Assembly. CSL has an active leadership development component and provides leadership workshops and programs. For more information, visit cll.berkeley.edu or stop by 102 Sproul Hall, (510) 642-5171.

**Child Care**

The Early Childhood Education Program (ECEP) provides developmental child care at eight centers for UC Berkeley families. Registered students with children between the ages of three months and seven years are eligible for either full-fee or subsidized child care spaces. Subsidized fees are based on a sliding scale, depending on gross family income and family size. For subsidized child care, a second parent, if not a registered Berkeley student, must be employed or attending a degree-granting institution. Spaces are limited. Priority is given to currently enrolled children and siblings, and registered students eligible for subsidized care. Each family is expected to contribute one hour of parent participation per week.

Applications are accepted year-round, but the ECEP admissions process for students begins in late May for the fall semester. Early applications are recommended—by mid-May for fall.

For more information or an application, contact the Early Childhood Education Program office at 2610 Channing Way, Berkeley, CA 94720-2272; call (510) 642-1827; or visit housing.berkeley.edu/child.

**CALPIRG**

The California Public Interest Research Group (CALPIRG) is a statewide public interest student non-profit organization. It is student-funded and student-directed, combining grassroots organizing and direct advocacy on environmental and social/consumer issues. Students work with professional staff to run various campaigns and govern themselves with an elected statewide student board. The CALPIRG office is in 303 Eshleman Hall, (510) 642-7313.

**Community Service Programs**

Berkeley is committed to promoting the ethic of public service and encouraging students to participate in community service activities. Through these experiences, students expand their understanding of social issues and develop valuable leadership skills while working on solutions to real-life problems.

**Cal Corps Public Service Center**—the campus office for student public service, leadership development, community development, and civic engagement—offers individual and student group resources, training, and programs. For information on service leadership opportunities or any of Cal Corps’ programs, visit the office at 505 Eshleman Hall, call (510) 642-3916, or go to publicservice.berkeley.edu.

The following are a few of Cal Corps’ student programs areas:

*Service and Leadership Resources—Cal Corps has many resources to help support the service experiences of all students, whether already serving in the community or looking for ways to become involved.

As the campus volunteer placement center, Cal Corps has an online database of more than 300 Bay Area nonprofit organizations seeking volunteers. Many of these local non-profits team up with the Berkeley Project for a day of service in mid-October. Cal Corps staff and peer advisers provide training and roundtables on leadership skill development, social issues, and public service. Cal Corps also serves as the information resource on postgraduate service opportunities with agencies such as the Peace Corps, AmeriCorps, and Teach for America.

**AmeriCorps National Service**—Cal Corps serves as the campus home for four campus AmeriCorps programs: (1) Destination: College, (2) the Bonner Leaders Program, (3) JusticeCorps, and (4) the Students in Service—GAIN Program. Destination: College is a campus collaborative organization that places Berkeley students in tutoring, mentoring, and pre-college advising positions throughout the Bay Area. The Bonner Leaders Program is a multi-tiered program connecting student leaders to a variety of service and leadership opportunities within Cal Corps and in the community. JusticeCorps recruits and trains university students to serve in self-help legal clinics throughout the Alameda County court system. Students in Service—GAIN (Graduate AmeriCorps Internship Network) is a partnership between Cal Corps and the Graduate School of Social Welfare. MSW candidates serve in community leadership positions as part of their practicum, as well as participate in AmeriCorps wide days of service. AmeriCorps members in all programs are eligible for scholarships, and some positions offer pay or academic credit.

(continued on next page)
Student-Initiated Community Projects—Cal Corps provides mini-grants and advising for groups of students to coordinate and manage their own public service projects. These groups work on a number of social service areas including the following:

- Increasing educational opportunities for underrepresented students in higher education through recruitment and support.
- Providing academic, social, and cultural support for students in local elementary, middle, and high schools.
- Bringing awareness to issues facing people of color, women, the disabled, the elderly, and the poor.

Service-Learning Programs—Several programs allow students to connect their service experiences with learning and reflection:

- Alternative Breaks takes students on student-led service trips during their winter and spring breaks, as well as on weekends.
- The Cal in Berkeley Student Internship Program places students as interns in the city of Berkeley and related community-based organizations.
- Cal in the Capital (CITC) assists students in securing summer internships in Washington, DC. Participants attend a required DeCal class in the spring semester to hone résumé and professional skills.
- Coaching Corps recruits students to serve as volunteer sports coaches for local youth teams. Coaches receive a stipend after they complete their training.
- Social Issues, Social Action is a service-learning course combining student volunteer placements with classroom discussion and reflection.
- Bears United in Literacy Development (BUILD) Programs are student-led literacy and homework help programs in Berkeley and Oakland.

Disabled Students’ Program

The Disabled Students’ Program (DSP) is located at 260 César Chávez Student Center, (510) 642-0518; TTY/TDD, (510) 642-6376. If you have a documented and verifiable disability, you may be eligible for academic accommodations and auxiliary services (such as lab assistance, notetakers, sign language interpreters), attendant referral, assistive technology, and housing assistance. A residence program for newly admitted students with physical disabilities who use wheelchairs and require independent living services is available, as are various other services. If you have a visual, hearing, mobility, physical disability, or a learning or other non-apparent disability, contact DSP for information about services or go to dsp.berkeley.edu.

Gender Equity Resource Center

The Gender Equity Resource Center (GenEq) is the campus community center for support, advocacy, and education related to women and the lesbian, gay, bisexual, and transgender (LGBT) communities. This includes managing the delivery of services; initiating
educational programs that inform the campus community about ways to be more equitable and inclusive toward women and LGBT persons in terms of departmental functions and interpersonal relationships; and assessing and reporting to the Cal administration on the campus climate for all women and LGBT students. GenEq is also an entry point for students wishing to access resources and/or report incidents of sexual, relationship, and hate violence. The programs and services within GenEq are: (1) Lesbian, Gay, Bisexual, Transgender, and Intersex; (2) Women; (3) Sexual Harassment, Sexual Assault, Relationship Violence; and (4) Bias Related Incidents and Hate Crimes. Students may choose to complete an internship, get help with research or papers, or just come to “hang out” in our comfortable and friendly suite. Contact staff or find more information at 202 César Chávez Student Center, (510) 642-4786, geneq@berkeley.edu, or geneq.berkeley.edu. The Gender Equity Resource Center is a department within the Division of Equity and Inclusion (see diversity.berkeley.edu).

Graduate Assembly

The Graduate Assembly (GA) is the student government for Berkeley’s graduate and professional students. Located in Anthony Hall (“The Pelican Building”), the GA represents the interests of graduate and professional students to the Berkeley administration, the UC statewide administration, and the state. The assembly meets the first Thursday of every month (except in January and summer) at 5:30 p.m. in the Senate Chambers of Eshleman Hall. Each department is represented by at least one delegate, whom it appoints. All graduate and professional students are welcome to participate in these meetings and other GA-sponsored events and programs, such as fundraising for graduate/professional student groups and activities, an annual New Graduate Student Orientation, receptions, academic workshops, and various programs sponsored by the Graduate Minority Students’ Project and the Graduate Women’s Project. The GA also publishes a biannual newsletter for graduate and professional students, The Berkeley Graduate, and maintains a web site (ga.berkeley.edu). A patio and meeting room are available on a reservation-only basis for student groups, and staff assistance is available for various information and referral services at (510) 642-2175.

Health and Counseling Services

University Health Services (UHS) provides comprehensive medical, counseling, and prevention services to Berkeley students and selected services for faculty and staff. UHS is located in the Tang Center at 2222 Bancroft Way. Services generally are available from 8 a.m. to 5 p.m. Monday through Friday. Urgent Care and the Pharmacy are also open Saturdays from 9 a.m. to 5 p.m. Services and hours are reduced during the summer.

An advice nurse is available by phone at (510) 643-7197 during open hours. After hours this number rolls over to a referral line to community resources. Most student visits to the Tang Center are supported by registration fees. There are, however, additional fees for selected services. Call the UHS Cashier’s Office at (510) 642-8448 with any questions.

Medical and Insurance Services

All students can use the on-campus services at UHS. These include visits with the physician/nurse practitioner of your choice, visits to specialists in any of nine medical disciplines, walk-in urgent care, appointments with a health educator, laboratory tests and X-ray procedures, pharmacy, allergy tests and shots, and international travel care. Call (510) 642-2000.

All Berkeley students must carry major medical health insurance, which covers hospitalization and services outside UHS, including out-of-area care. You are automatically enrolled in the University’s Student Health Insurance Plan (SHIP) and are charged a health insurance fee as part of registration. This insurance, which includes dental coverage, supplements the campus services available at UHS.

If you are covered by other health insurance, you may waive the SHIP requirement if you can show that your coverage is comparable to that available under the University plan. Please note that even if you waive SHIP, you still are eligible for on-campus health care at UHS.

Please call the insurance office at (510) 642-5700 for more information, or for information on health insurance for dependents. Insurance information is also available at uhs.berkeley.edu.

Counseling and Psychological Services

Counseling is available for career, academic, and personal concerns; call (510) 642-9494. The counselors are a multicultural group of social workers, psychologists, and psychiatrists. Any Berkeley student can come in to talk about choosing a major, learning about interests and abilities, clarifying career goals and exploring options, coping with personal crises, dealing with concerns about relations with family or others, overcoming learning and concentration problems, life at Berkeley, or any other concerns.
A career counseling program, including aptitude and skills testing, is available to students, as are group and couples counseling. Social services, (510) 642-6074, assists students with difficulties related to illness, as well as concerns such as pregnancy, alcohol and other drug use, chronic or life-threatening diseases, traumatic accidents, and sexual assault.

The Tang Center also houses the Career Counseling Library, (510) 642-2367, which has materials on occupations, professions, and educational and career opportunities; and the Self-Care Resource Center, which has interactive programs, books, audio and video tapes, magazines, and self-assessment tools. For more information, go to uhs.berkeley.edu.

**Health Promotion**

Individual health education appointments on a variety of topics, including nutrition, stress, sexual health, and other concerns, are available by calling (510) 642-2000.

Workshops and speakers also are available on topics such as HIV/AIDS, stress, cultural health issues, alcohol and other drugs, sexually transmitted diseases, sexual assault, and community health. Trained student health educators (peer educators) offer workshops and individual consultations and organize groups of students to work on critical campus health issues. Peer educators earn 4 units per year through the School of Public Health. For more information, call (510) 642-7202.

**University Eye Care Clinic**

The School of Optometry, located in Minor Hall, is one of the leading research facilities in the world for studying the eye, vision, and related disorders. As part of its academic programs, the school has an excellent eye care clinic that offers comprehensive eye care to faculty, staff, students, and the general public.

The clinic provides complete eye examinations, including eye health assessments and treatment, seven days a week. Prescriptions for glasses or contact lenses can be filled from an extensive selection of eyewear. In addition to providing primary vision care, specialized care is also available: ocular health, eye photography, binocular and infant vision, low-vision rehabilitation, and electro-diagnostic testing; vision training for reading or sports; video display terminal (VDT) examinations; special visual assessments for the disabled; and job-related vision examinations and safety glasses. Laser refractive correction is also available on campus.

The school also operates an eye clinic open to the general public in University Health Services at 2222 Bancroft Way. Insurance (including SHIP and UC employee benefit coverage) is accepted.

For more information about the University Eye Care Clinic in Minor Hall, call (510) 642-2020; for more information about the vision clinic in University Health Services, call (510) 643-2020 or go to caleyecare.org.

**Housing**

Approximately one-third of all students are housed in University housing or in alternative housing, such as co-ops, International House, fraternities, or sororities. Each housing provider has its own application procedure and deadline.

All new undergraduate students will find their University housing information online upon receiving their online notification of admission. Details on housing options, an application to University housing, and deadline information may be found at housing.berkeley.edu/livingatcal. New fall freshmen and transfer students who apply for single-student housing by the appropriate deadline are guaranteed University
housing. Single undergraduate students admitted for spring semester are very likely to receive a housing offer, but at present there is no guarantee. Graduate students should examine the housing website for their options at housing.berkeley.edu/livingatcal/graduatestudents.html.

Students with questions about their housing options may contact the Cal Rentals office for assistance. Advisers are available to discuss on- and off-campus housing and help with comparing the choices. To contact Cal Rentals, e-mail homeinfo@berkeley.edu, call (510) 642-3644, or visit the office weekdays at 2610 Channing Way, Berkeley, CA, 94720-2272. Information is also available on the Cal Rentals website at calrentals.housing.berkeley.edu.

University Residence Halls
University-operated residence halls and single student undergraduate apartments accommodate some 6,000 students, approximately 70 percent of whom are new, incoming students. All new, incoming fall freshmen and transfer students who apply by the deadline are guaranteed housing in the residence halls, if we are able to accommodate their preferences. Each residence hall or apartment is unique, and to become acquainted with the options, new students are encouraged to read their housing information thoroughly. If possible, they should also take a tour offered on Cal Day, a special campus open house usually held in April, or contact the Housing Office at (510) 642-4108 for a tour. Most facilities are co-ed, and most offer a dining facility, recreational and social programs, and study rooms. University housing includes “theme programs” which provide living environments focused on a language or culture. Residence halls and apartments are within a few blocks of campus.

Cal Rentals
Cal Rentals provides rental listings and housing resources for students. For more information, visit Cal Rentals, UC Berkeley, 2610 Channing Way, Berkeley, CA 94720-2272; call (510) 642-3644; send e-mail to homeinfo@berkeley.edu; or go to calrentals.housing.berkeley.edu.

Family Student Housing
The University operates approximately 1,000 apartments for married students and single-parent families. The apartments are located at the University Village in Albany, approximately four miles northwest of the campus, and at the Smyth-Fernwald complex in Berkeley. You may apply for family student housing before you have been admitted to the University. You should apply early, as assignments are made on a first-come, first-served basis, and the waiting period could be as long as six months. For more information and an application, go to www.housing.berkeley.edu/livingatcal/Studentsfamilies.html or contact Apartment Assignments, 2610 Channing Way, Berkeley, CA 94720-2272; call (510) 642-4109; or e-mail apts@berkeley.edu.

Law and Graduate Student Apartments
Manville Apartments is a complex of 132 small, unfurnished, single-occupancy studio apartments reserved exclusively for law and graduate students. It is located at 2100 Channing Way and offers many amenities: recreation room, laundry, mail room, storage space, cable TV, and in-room campus network and Internet hookups. For additional information and an application, go to housing.berkeley.edu/livingatcal/graduatestudents.html or contact Residence Hall Assignments, 2610 Channing Way, Berkeley, CA 94720-2272; call (510) 642-4108; or e-mail reshall@berkeley.edu.

Ida Louise Jackson Graduate House
This complex features shared apartments with single-occupancy bedrooms for graduate students only. Located a block south of campus, these furnished apartments range in size from two to six bedrooms. Each apartment has a kitchen, living room, dining area, and one or two bathrooms. The complex features study rooms, lounge, private courtyard, and coin laundry facilities. For additional information and an application, go to housing.berkeley.edu/livingatcal/graduatestudents.html or contact Residence Hall Assignments, 2610 Channing Way, Berkeley, CA 94720-2272; call (510) 642-4108; or e-mail reshall@berkeley.edu.

Co-ops
The Berkeley Student Cooperative (BSC) is a nonprofit, student-owned and operated organization that is independent of the University. The BSC houses more than 1,200 students in 19 houses and apartments. Members are required to contribute a regular work shift. Admission priority is given to EOP/AA and disabled students. For more information, contact BSC, 2424 Ridge Road, Berkeley, CA 94709; call (510) 848-1936; send e-mail to housing@bsc.coop; or visit bsc.coop.

International House
International House is a unique residential and program community of 575 students and scholars from over 70-plus countries including the U.S. “I-House” draws residents, campus members, and the public to a wide array of educational and cross-cultural programs, including lectures, concerts, film series, and festivals. Both residents and nonresident members contribute ideas, talents, and help lead on- and off-site activities throughout the year. Reasonably-priced meals and monthly events that highlight special cultural cuisines in our public dining commons reflect the international tastes of the residents. Meal plans are available to non-residents. For more information on living, attending programs, dining, or renting facilities at I-House, visit ihouse.berkeley.edu, e-mail ihouse@berkeley.edu, or call (510) 642-9470. To purchase a meal plan, call (510) 642-9477.

I live in the dorms. The first day I arrived, people were coming up to me and saying, “Oh, hi, my name is so-and-so, I’m from here; where are you from?” They were just really friendly.

2nd-year student

CAL Quiz
No. 6
What was the first piece of permanent sculpture on campus?
(Answer on page 524.)
Information Online
Most campus web servers can be found by accessing the Berkeley home page (berkeley.edu). Some online services of particular interest to students include the following:

- UC Berkeley Students (berkeley.edu/students) has information about campus services fundamental to student life, such as health services, housing, student jobs, and student organizations.
- Student Systems (sis.berkeley.edu) is a gateway to the most important student information resources online. A few of the links on this site include those to Bear Facts and the online Schedule of Classes.
- The Library (library.berkeley.edu) has links to the many collections and electronic resources available at the various campus libraries, as well as links to catalogs at other UC campuses.

International Student Advising
Berkeley International Office offers a wide range of services to UC Berkeley’s international students, international scholars, and their families. Services include orientations, guidance on immigration and visa matters, help in solving financial problems, advice and referrals about personal concerns, and information on almost any topic of special interest to international students and scholars. Located in International House (2299 Piedmont Avenue, (510) 642-2818), the office is open Monday through Friday, 9 a.m. to noon and 1 to 4 p.m.; go to internationaloffice.berkeley.edu or e-mail internationalhouse@berkeley.edu.

International House Programs
The Program Office of International House, (510) 642-9460, organizes thought-provoking lectures and fun, social, and recreational programs—not only for its residents but for members of the campus and local community as well—in order to advance its mission: fostering cross-cultural respect, understanding, and friendship for a more peaceful world. Lectures, trips, and tours, as well as I-House cultural events, parties, and slide shows, enrich the extracurricular life of the campus. Many events are free, although nonresident membership in the I-House (nominal fee) offers savings on trips and special programs, as well as discounts to I-House’s popular second-floor public dining commons where “language tables” offer foreign language practice. An International Friendship Program links international students to local volunteers and families, so they can enrich one another’s cultural knowledge and share unique traditions like Thanksgiving together. More information on I-House programs, including their robust program schedule, as well as details about living and dining at I-House, are available online at ihouse.berkeley.edu.

Legal Services
If you are a currently registered Berkeley student concerned about a legal problem or seeking information about your legal rights and obligations, you can make an appointment for a free consultation with an attorney by calling (510) 642-5171. Student Legal Services is located in 102 Sproul Hall.

The Ombuds Office for Students and Postdoctoral Appointees
The Student Ombuds Office provides an informal dispute resolution process in which the ombuds advocates for fairness, justice, respect for differences, and reasonable solutions to campus-related student and postdoctoral issues and concerns. All UC Berkeley undergraduates, graduate students, and postdoctoral appointees, as well as all faculty and staff members who work with these groups, can call for assistance. The ombuds will listen to concerns, explore options for next steps, and discuss other resources that might be helpful. The office is strictly confidential (except in cases of imminent risk of serious harm), independent, and informal—and is neither an office of record nor of report for the University. Please call (510) 642-5754 for more information or to make an appointment. Visit our web site at students.berkeley.edu/ombuds.

Orientations for New Students
New Student Services offers programs, services, and publications to introduce new undergraduates to the Berkeley campus. Admitted freshmen and transfer students who have submitted their online SIRs may sign up themselves and their parents and guests for a CalSO (Cal Student Orientation) program by going to calso.berkeley.edu. At CalSO, new students (and their parents) receive information, advice, and the student handbook Resource (resource.berkeley.edu) to ease their transition to life at Berkeley. New Student Services also organizes Welcome Events in the fall and the Calapalooza activity fair and staffs an Information Tent on Upper Sproul Plaza during the first two weeks of the semester. New Student Services is located at 2610 Channing Way, Third Floor, (510) 642-4970. You may also e-mail calso@berkeley.edu or visit nss.berkeley.edu.

Safety
The University maintains a police department on the Berkeley campus for your protection and safety. The department consists of over 70 fully trained, sworn officers, 50 other full-time personnel, and 70 student employees. The Police Department is located in 1 Sproul Hall (basement) and is open 24 hours a day, seven days a week. Police patrol the campus, the surrounding University properties, and Southside and vicinity, and they investigate all crimes committed on University property. For emergencies, including
police, fire, or medical, call 911 from any campus phone (no need to dial 9 first); from cellular phones, call (510) 642-3333. For general business, call (510) 642-6760 or visit police.berkeley.edu; for information about campus safety services and programs, call (510) 64B-SAFE (642-7233); for information on emergency preparedness, call (510) 642-9036 or visit oep.berkeley.edu; for lost and found, call (510) 642-4936.

**Bicycle Licensing**

All bicycles on campus must have California bicycle licenses, which the Police Department can provide to the campus community. For more information, call (510) 642-6760.

**Night Safety Shuttle/BearWALK Service**

The Night Safety Shuttle and BearWALK Service are available in the evening to provide safe access to your car, campus facilities, nearby home, or public transportation. Presentations on safety and workplace violence are also available. For more information about the shuttle and escort services, call (510) 642-WALK (642-9255). For general information about safety, call (510) 64B-SAFE (642-7233).

**Sexual Assault Prevention, Medical Care, and Counseling**

University Health Services (UHS) offers resources to maximize your personal safety and to contribute to a campus environment that does not tolerate sexual assault, promotes its prevention, and supports assault survivors. Prevention activities include workshops and other educational campaigns. Workshops are available for living centers, classes, and campus departments; call (510) 642-7202.

Immediate response to survivors of sexual assault includes confidential crisis counseling as well as assistance and advocacy, as needed, for the initial medical evaluation, legal and police procedures, and academic and housing issues; call (510) 642-6074. Services are available for both recent survivors and those working to recover from a past assault. UHS also provides short-term individual and group counseling and education sessions for friends, family, housemates, and co-workers of survivors.

**Student Learning Center**

The Student Learning Center (SLC) is a community of 4,000 undergraduates, more than 250 tutors and instructors, and 20 professional staff dedicated to fostering academic excellence. The SLC is driven by the philosophy that students working with students promotes academic and personal success.

As the primary academic support service for students at UC Berkeley, the SLC assists students in making the transition to Cal, navigating the academic terrain, creating networks of resources, and achieving academic, personal, and professional goals. Through various services including tutoring, study groups, workshops, and courses for credit (see page 47), the SLC supports students in the biological and physical sciences, mathematics, social sciences, statistics, study strategies, and writing.

For additional information or to register for any SLC programs, visit the reception desk at the César Chávez Student Center on lower Sproul Plaza, call (510) 642-7332, or go to slc.berkeley.edu.

**New Student Programs**

You’ll get tired of blue and gold.
Trust me.

Jenne Mowry

**Clubs and Organizations**

Besides regular ASUC-sponsored activities, there are more than 800 recognized student organizations on campus serving special interests and needs. Student organizations cover a wide range of interests in academics, arts, culture, politics, professions, publications, religion, sports, service, and social issues. To see a current list of recognized organizations, start your own student organization, or find funding options for student organization activities, visit cll.berkeley.edu, stop by the Center for Student Leadership at 102 Sproul Hall, or call (510) 642-5171.
Fraternities and Sororities (Greek Life)
As an integral part of the campus community for 140 years, fraternities and sororities offer a values-based developmental experience and foster the personal, ethical growth of members. Grounded in the four pillars of “Leadership, Scholarship, Friendship, and Service,” these organizations provide life-long membership with involvement opportunities well beyond the undergraduate years. Visit greeks.berkeley.edu for more information.

Honor Societies
Honorary academic societies are open to students of outstanding accomplishment. Multidiscipline honor societies at Berkeley include Golden Key International Honour Society, Mortar Board National College Senior Honor Society, National Society of Collegiate Scholars (NSCS), Order of Omega (a Greek leadership honor society), Phi Beta Kappa, and Prytanean Women’s Honor Society. Contact specific academic departments for single-discipline honor societies. For more information, visit oep.berkeley.edu, stop by the Center for Student Leadership at 102 Sproul Hall, or call (510) 642-5171.

Student Publications
Student publications provide opportunities for involvement in all phases of publishing: writing, editing, reporting, art and design, advertising, sales, and general management. If interested, inquire at the ASUC OCF/Publications Center, located at 10 Eshleman Hall, (510) 642-2981, or visit asucstudentaffairs.berkeley.edu.

The Berkeley Undergraduate Journal publishes outstanding essays from the humanities and social sciences. If you have written a paper 15-60 pages long that would appeal to an educated audience, watch the web site (learning.berkeley.edu/buj) for submission deadlines (usually the third week of each semester). Undergraduate students may also apply for positions on the 10-member Editorial Board. For further information, contact the publication adviser at buj@learning.berkeley.edu or go to learning.berkeley.edu/buj.

Berkeley Scientific is a faculty-reviewed, student-published science journal that is issued twice a year. Undergraduate papers from all scientific disciplines are welcome. For more information, contact the editors at bsj@ocf.berkeley.edu or go to www.ocf.berkeley.edu/~bsj.

Office of Student Affairs
The Office of Student Affairs within the ASUC Auxiliary offers fiscal advice and program assistance to more than 400 ASUC-funded student groups. For information, call (510) 642-4536, visit 400 Eshleman Hall, or asucstudentaffairs.berkeley.edu.

Student Life Advising Services
Student Life Advising Services (SLAS), an academic counseling and advising unit, gives priority attention to students in programs such as the Educational Opportunity Program (low-income, first-generation college students), the Summer Bridge Program, the Incentive Awards Program, South Central Gifted Fund Scholars, etc. Priority assistance is also extended to students who participated in UC-sponsored academic development programs such as Upward Bound, Early Academic Outreach Programs, Educational Guidance Center, and the Transfer Alliance Project. SLAS provides academic advising, personal counseling, financial assistance, and advocacy services.

SLAS strives to motivate and encourage students toward achieving academic excellence and successful matriculation to graduation. Academic counselor/ coordinators and peer advisers are available for both drop-in and scheduled appointments.

In addition to counseling, advising, and advocacy services, SLAS administers a wide range of programs designed to assist students in achieving their educational and career goals. Programs and services include the Achievement Awards Program, Peer Advising Program, Summer Bridge Program seminars, Reduced Study Load Program, housing assistance, financial assistance (i.e. emergency loans and grants), and study list review.

SLAS is located in 119 César Chávez Student Center #4210, (510) 642-7224. Information is also available at slas.berkeley.edu.

Transfer, Re-entry and Student Parents
The Transfer, Re-entry and Student Parents Center (TRSP), a unit of the Division of Equity and Inclusion, offers a broad range of academic support services to students who transfer to Berkeley from other institutions, who are returning to their course of studies, or are combining school with parenting. We also provide assistance to military veterans and former foster youth students at Berkeley. These programs serve an overlapping population of about 5,000 students. The center provides services and programs designed to enhance academic achievement and student life experiences.

Major activities include academic courses to help TRSP students make an effective transition to Cal and enhance their academic success; orientations and community-building events; an Outstanding Faculty Speakers lunch series; the Starting Point Mentoring Program of outreach by current students to community colleges; and resource information and referral to the campus at large.

TRSP is located at 100 César Chávez Student Center. For more information, visit trsp.berkeley.edu or call (510) 642-4257.
Exceptional professors, experts in every field, are at the heart of the Berkeley experience. Robert Reich, professor of public policy and former U.S. secretary of labor, is a sought-after commentator in the national media, but Berkeley students learn from him first-hand in his undergraduate course on Wealth and Poverty — and in the “salon” he conducts with students after each lecture.
Undergraduate Education

As a prospective Berkeley undergraduate, you should give careful thought to preparing yourself adequately in reading, writing, mathematics, and other areas related to your intended major. The more comprehensive and challenging your high school or college program is, the better prepared you will be for work at Berkeley.

Applying for Admission

How to Apply

If you are interested in applying to Berkeley, the application is available online at universityofcalifornia.edu/apply. There you will find information on how to apply, admissions policy, fees, scholarship opportunities, and more. You may apply to as many UC campuses as you wish, using one application form. (The San Francisco campus, which is devoted to the health sciences, has its own application and filing procedures.)

You should be aware of the importance of the priority filing period. We are unable to accept applications after the filing period ends.

Priority Filing Period

Fall semester: File November 1-30

Note: Berkeley does not accept applications for transfer applicants at the freshman or sophomore level, nor for the spring semester. However, we do defer students to the spring semester from the fall applicant pool. For information about application fees and fee waivers, see below; see also “Fees and Financial Aid,” beginning on page 65.

Application Fees and Fee Waivers

The basic application fee of $60* entitles you to apply to one University campus. If you apply to more than one campus, you must pay an additional $60* for each campus you select. These fees are not refundable. You must submit your fees with the application or the application will not be processed.

The University will waive application fees for up to four campuses in order to assist students for whom payment is a barrier to application to the University. Students who qualify for fee waivers and who select more than four campuses must pay $60* for each additional choice. For the fee waiver request, please provide your family income and the number of dependents. The fee waiver program is for U.S. citizens and permanent residents only.

There are several ways to obtain a fee waiver:

(1) If you submit an online application through UC Pathways, you can apply for a fee waiver on the electronic form and will be notified immediately if you qualify.

(2) If you are in high school, you may use the College Board fee waiver. Applications for this waiver are available from your high school counselors.

(3) If you are enrolled in the EOPS program in a California community college, you may obtain a fee waiver from your EOPS office.

Competitive Admission at Berkeley

All programs at Berkeley receive more applications than they can accept. For fall 2007, Berkeley admitted 9,050 of 36,870, or about 25 percent of freshman applicants, and 949 of 4,703, or about 20 percent of transfer applicants. Consequently, to gain admission to Berkeley, you need to present an academic profile much stronger than that represented by the minimum University of California admission requirements. See pages 504 and 505 in the “Appendix” of this catalog for more information on selection criteria for the Berkeley campus. You can also obtain information online at admissions.berkeley.edu.

*The international student (nonimmigrant) application fee for fall 2009 admission is $70.
Admission as a Freshman

Berkeley considers you a freshman applicant if you are currently enrolled in the 12th grade or if you have graduated from high school and have not enrolled in a regular session at any college or university after high school graduation. If you attended summer session immediately after graduating from high school, you are still a freshman applicant.

Minimum Eligibility Requirements

California Residents*—There are three pathways to satisfying the admission requirements for freshman students: eligibility in the statewide context, eligibility in the local context, and eligibility by examination alone.

Eligibility in the Statewide Context—Eligibility in the statewide context is the pathway by which most students attain UC eligibility. To be eligible in the statewide context, you must satisfy the subject, scholarship, and examination requirements described below.

Subject Requirement

To satisfy this requirement, you must complete the high school courses listed below with a GPA defined by the scholarship requirement. This sequence of courses is also known as the “a-g” requirements. You must take 15 units of high school courses to fulfill the subject requirement, and at least 7 of the 15 units must be taken in your last two years of high school. (A unit is equal to an academic year, or two semesters, of study.)

Applicants from California high schools: To be acceptable to the University of California, the courses must appear on the certified list for your high school as meeting UC admissions requirements. You may view the certified course list at doorways.ucop.edu/list.

a. History/Social Science: Two years required. Two years of history/social science, including one year of U.S. history or one-half year of U.S. history and one-half year of civics or American government; and one year of world history, cultures, and geography.

b. English: Four years required. Four years of college preparatory English that include frequent and regular writing, and reading of classic and modern literature. No more than one year of ESL-type courses can be used to meet this requirement.

c. Mathematics: Three years required, four recommended. Three years, including elementary and advanced algebra and two- and three-dimensional geometry. Approved integrated math courses may be used to fulfill this requirement, as may math courses taken in the 7th and 8th grades that your high school accepts as equivalent to its own courses.

d. Laboratory Science: Two years required, three recommended. Two years of a laboratory science providing fundamental knowledge in at least two of these three areas: biology, chemistry, and physics. Laboratory courses in earth/space sciences are acceptable if they have as prerequisites or provide basic knowledge in biology, chemistry, or physics. The final two years of an approved integrated science program can be used to fulfill this requirement.

e. Language Other than English: Two years required, three recommended. Two years of the same language other than English. Courses should emphasize speaking and understanding, and include instruction in grammar, vocabulary, reading, and composition. Courses in languages other than English taken in the 7th and 8th grades may be used to fulfill part of this requirement if your high school accepts them as equivalent to its own courses.

f. Visual and Performing Arts (VPA): One year required. A single, year-long approved arts course from a single VPA discipline: dance, drama/theater, music, or visual art.

g. College Preparatory Electives: One year required. One year (two semesters), in addition to those required in “a-f” above, chosen from the following areas: visual and performing arts (non-introductory-level courses), history, social science, English, advanced mathematics, laboratory science and language other than English (a third year in the language used for the “e” requirement or two years of another language).

Scholarship Requirement

The Scholarship Requirement defines the grade point average (GPA) you must earn in the “a-g” subjects and the test scores you must achieve to be eligible for admission to UC. The University uses an Eligibility Index (see next page)—a combination of GPA and test scores—to determine if you meet this requirement.

To determine your eligibility, the University calculates your GPA in the “a-g” subjects by assigning point values to the grades you earn, totaling the points and dividing the total by the number of “a-g” courses. Points are assigned as follows: A=4 points, B=3 points, C=2 points, D=1 point, and F=0 points. (Pluses and minuses are not calculated in the GPA.)

Only the grades you earn in “a-g” subjects in the 10th and 11th grades—including summer sessions—are used to calculate your preliminary GPA. Courses you took in ninth grade can be used to meet the Subject Requirement if you earned a grade of C or better, but they will not be used to calculate your GPA.

*Residency status: The definition of legal residence for tuition purposes is different than that for admission purposes. If you have questions about your residency status, see the “Appendix” in this catalog or visit the Office of the Registrar’s web site at registrar.berkeley.edu.
UC Eligibility Index*

Below are the combinations of GPA and UC Score Totals that meet UC’s minimum requirements.

California Residents

<table>
<thead>
<tr>
<th>“a-g” GPA</th>
<th>Minimum UC Score Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.00 - 3.04</td>
<td>223</td>
</tr>
<tr>
<td>3.05 - 3.09</td>
<td>210</td>
</tr>
<tr>
<td>3.10 - 3.14</td>
<td>198</td>
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<td>3.15 - 3.19</td>
<td>187</td>
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<tr>
<td>3.20 - 3.24</td>
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<tr>
<td>3.40 - 3.44</td>
<td>147</td>
</tr>
<tr>
<td>3.45 &amp; above</td>
<td>143</td>
</tr>
</tbody>
</table>

Non California Residents

<table>
<thead>
<tr>
<th>“a-g” GPA</th>
<th>Minimum UC Score Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.40 - 3.44</td>
<td>147</td>
</tr>
<tr>
<td>3.45 &amp; above</td>
<td>143</td>
</tr>
</tbody>
</table>

*An eligibility calculator is available at universityofcalifornia.edu/admissions/undergraduate.html.

Myth: You cannot do much beyond working hard at classes in your major to improve your chances of career success.

Fact: Courses outside your major and independent study projects are important, too. You will gain valuable experience by participating in extracurricular activities such as student organizations, sports, social groups, and student government. In addition, internships, summer jobs, and volunteer activities will help you define your interests, develop skills, strengthen your résumé, and establish professional contacts in the working world.

Myth: Your first job will determine your career. Therefore you ought to be completely sure of your choice when you make an academic or career decision.

Fact: You cannot be entirely sure of any decision. Each career has its advantages and disadvantages; any choice involves some risk. Do not think that you cannot change your mind. Most people make numerous career changes in their lifetime. Even within a specific field, you are usually free to explore.

Myth: Your first job will be used. If you have earned a D or F in an honors or advanced placement course taken in the last three years of high school: A = 5 points, B = 4 points, C = 3 points. No more than two year-long, UC-approved honors level courses taken in the 10th grade may be given extra points. A grade of D in an honors or advanced placement course does not earn extra points.

Honors Courses—For eligibility, the University assigns extra points for up to eight semesters of University-certified honors-level and Advanced Placement courses taken in the last three years of high school: A = 5 points, B = 4 points, C = 3 points. No more than two year-long, UC-approved honors level courses taken in the 10th grade may be given extra points. A grade of D in an honors or advanced placement course does not earn extra points.

The courses must be in the following “a-g” subjects: history/social science, English, advanced mathematics, laboratory science, language other than English, and visual and performing arts. Also, they must be certified as honors courses by the University. In these subjects, as well as in computer science, acceptable honors-level courses include Advanced Placement courses, Higher Level and designated Standard Level International Baccalaureate courses, and college courses that are transferable to the University.

D and F Grades—If you have earned a D or F in an “a-g” course, you must repeat the course with a grade of C or better in order to apply it toward your Subject Requirement. The original D or F grade will not be included in the GPA calculation, and the new grade will be used. If you repeat a course in which you initially earned a grade of C, the second grade will not be used.

UC Score Total

The University calculates your UC Score Total as follows:

1. If you took the SAT Reasoning Test—The University converts your highest scores in critical reading, math, and writing from a single sitting and two SAT Subject Tests from different subject areas to equivalent UC Scores (see translation table below). Then all five UC Scores are added together to produce your UC Score Total (critical reading + math + writing + subject test 1 + subject test 2).

2. If you took the ACT plus Writing exam—The University takes your highest math, reading, science, and combined English/writing score from a single sitting and converts them to equivalent UC scores (see the translation table below). To give the ACT writing component equal weight to the SAT writing exam, the University multiplies the sum of your converted math, reading, and science scores by two-thirds, then adds the converted English/writing score. This subtotal is then added to your two highest SAT Subject Test scores from two different subject areas, which are also converted to equivalent UC Scores, to reach your UC Score Total [(math + reading + science) x 0.667 + English/writing + subject test 1 + subject test 2].

SAT Test Score Translation

<table>
<thead>
<tr>
<th>SAT Score</th>
<th>UC Score</th>
<th>SAT Score</th>
<th>UC Score</th>
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</thead>
<tbody>
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<tr>
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</table>
Examination Requirement
You must submit scores from the following tests:
• The ACT Assessment plus Writing or the SAT Reasoning Test—The critical reading, writing, and mathematics scores on the SAT must be from the same sitting. If you take the ACT, you will be asked to report your scores on each section of the test as well as your composite score.
• Two SAT Subject Tests—These must be in two different areas, chosen from the following: English, history and social studies, mathematics (Level 2 only), science, or language other than English.

<table>
<thead>
<tr>
<th>ACT Score</th>
<th>UC Score</th>
<th>ACT Score</th>
<th>UC Score</th>
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<td>21</td>
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</tbody>
</table>

Freshman applicants who graduated from high school in spring 2005 or earlier are required to have taken the SAT I (or ACT) and three SAT II: Subject Tests prior to high school graduation.

For information about the tests you must take to fulfill the examination requirement, talk to your school counselor or write to the appropriate testing organization. Berkeley requires you to take these tests by December of your senior year.

Eligibility in the Local Context—Under the Eligibility in the Local Context (ELC) pathway, the top four percent of students at each participating California high school are designated UC eligible and guaranteed admission to one of UC’s eight general campuses.

To be considered for ELC, you must complete 11 specific units of the subject requirement by the end of your junior year. With the assistance of each participating high school, the University will identify the top four percent of students on the basis of GPA in the required coursework.

The 11 units include 1 unit of history/social science, 3 units of English, 3 units of mathematics, 1 unit of laboratory science, 1 unit of language other than English, and 2 units chosen from VPA or other electives.

The University will notify ELC students of their status at the beginning of their senior year. If you are designated UC eligible through ELC, you must submit the University’s undergraduate application during the November filing period and complete remaining eligibility requirements—including the subject and examination requirements—to enroll.

ELC students are guaranteed a spot at one of UC’s eight undergraduate campuses, though not necessarily at their first-choice campus.

Eligibility by Examination Alone—You may qualify for admission to the University by earning high scores on the ACT Assessment plus Writing or SAT Reasoning Test, and two SAT Subject Tests.

To qualify this way, you must achieve a minimum UC Score Total of 410. In addition, you must earn a minimum UC Score of 63 on each component of the ACT or SAT Reasoning Test and on each SAT Subject Test.

You may not use a SAT Subject Test to meet these requirements if you have completed a transferable college course in that subject with a grade of C or better.

Nonresidents
There are two paths to UC eligibility for nonresidents at the freshman level. The first is the same as described above under Eligibility in the Statewide Context (see page 33), and the second is the same as described above under Eligibility by Examination Alone, with the following exceptions:
• Scholarship Requirement—Your GPA in the “a-g” subjects must be 3.4 or higher, if you achieve the test score indicated in the Eligibility Index under nonresidents.
• Admission by Examination Alone—To qualify this way, you must achieve a minimum UC Score Total of 425. In addition, you must earn a minimum UC Score of 63 on each component of the ACT or SAT Reasoning Test and on each SAT Subject Test.

Admission as a Transfer Student
Berkeley has a strong commitment to transfer students and has worked to develop programs to assist students with the transfer process. Following the California Master Plan for Higher Education, Berkeley gives high priority to students transferring from California’s community colleges.
Most programs at Berkeley receive applications from far more transfer students than they can accept. For fall 2007 the campus was able to admit 949 of 4,703 transfer applicants, or about 20 percent. Consequently, to be competitive you need to present an academic profile much stronger than that represented by the minimum UC admission requirements and complete preparation for your intended field of study.

In general, Berkeley admits transfer applicants at the junior level only—students who have or will have completed at least 60 UC-transferable semester units. All applicants should complete all required units, major prerequisites, and general education requirements by the end of the preceding spring semester for fall admission.

You can find more information concerning general transfer admission requirements to the University of California system online at universityofcalifornia.edu/admissions. For specific information on preparing to transfer to Berkeley, see the “Appendix” in this catalog, the flyer “Transfer Admission,” and the announcements of the individual colleges and schools. You can also obtain information online at admissions.berkeley.edu.

Minimum Admission Requirements for Transfer Students

Requirements for California Residents*
There are three ways in which you can meet the University’s minimum admission requirements for transfer students.

The University considers you a transfer applicant if you enrolled in a regular session at another college or university, except while in high school or summer session immediately following high school. (You can’t disregard your college record and apply as a freshman.)

Junior-Level Transfer—The vast majority of transfer students come to the University at the junior level from California community colleges. To be eligible for admission to UC as a transfer student, you must fulfill both of the following criteria:

1. Complete 60 semester (90 quarter) units of transferable college credit with a GPA of at least 2.4. No more than 14 semester (21 quarter) units may be taken passed/not passed.

2. Complete the following course pattern requirements, earning a grade of C or better in each course:
   - Two transferable college courses (3 semester or 4-5 quarter units each) in English composition;
   - One transferable college course (3 semester or 4-5 quarter units) in mathematical concepts and quantitative reasoning;
   - Four transferable college courses (3 semester or 4-5 quarter units each) chosen from at least two of the following subject areas: the arts and humanities, the social and behavioral sciences, and the physical and biological sciences. Each course must be worth at least 3 semester units.

If you satisfy the Intersegmental General Education Transfer Curriculum (IGETC) prior to transferring to UC, you may satisfy the seven-course pattern outlined above, depending on the courses you take. For more information, visit assist.org.

Requirements for Nonresidents
The minimum admission requirements for nonresident transfer applicants are the same as those for residents except that nonresidents must have a GPA of 2.8 or higher in all transferable college coursework.

Transfers from Other UC Campuses
If you are/were registered on any campus of the University in a regular session (not summer only), you may apply for transfer to another campus of the University by filing the undergraduate application. Filing dates and application fees are the same as those listed for new applicants. Note: Transfer applicants from another UC campus receive no priority in the selection process.

Admission of International Applicants
International students are those holding or intending to apply for nonimmigrant visas. If you wish to apply for admission as an international student, you will find important information about freshman and transfer student admission for international students, foreign academic records, visas, required examinations, fees and expenses, housing, and travel at admissions.berkeley.edu.

*Residency status: The requirements for California residents also apply to dependents of University of California employees. The manner in which legal residence is defined for tuition purposes is different than that for admission purposes. If you have questions about your residency status, see the “Appendix” in this catalog or visit the Office of the Registrar’s web site at registrar.berkeley.edu.
Readmission

If you matriculated then formally withdrew from Berkeley, were absent for one or more semesters, or are returning to Berkeley in the Limited Status or Second Bachelor’s programs, you must file an Undergraduate Application for Readmission. Application deadlines are June 1 for fall admission and November 1 for spring admission. Applications must be accompanied by a $60 readmission fee. If you attended other colleges or universities while you were away from Berkeley, you must send official transcripts to Berkeley immediately. Additional information is available at admissions.berkeley.edu. (Click on the “Current Applicants” tab, or search Ask Oski, our virtual adviser.)

Limited Status

Limited-status students are a special category of undergraduates who have earned an undergraduate degree with a record of superior scholarship (an overall GPA of at least 3.3), but need additional undergraduate coursework for a specific and clearly defined purpose. Currently only the College of Chemistry will consider admitting students in limited status.

Limited status is granted only in special circumstances; students’ needs, abilities, and programs should have enough urgency to justify admitting them in place of students in regular status, and there should be no reasonable alternative available. Use of limited status to enable students to raise their scholarship average is not permitted.

Work Toward a Second Bachelor’s Degree

If you are a candidate for a second bachelor’s degree, you will be considered for admission only if you need an entirely new major program for a valid educational purpose. Currently only the Colleges of Chemistry and Engineering will consider admitting students for a second bachelor’s degree. To apply for this program, you must have earned an undergraduate degree with a record of superior scholarship (an overall GPA of at least 3.3) and must have completed all lower division requirements for your proposed major with excellent grades. Your proposed program must represent a definite change in field from your first undergraduate degree, and you must prove that you require the second degree for the stated purpose. If you need coursework but not a degree in a new field, you should apply for limited status (see above) instead.

In practice, Berkeley admits very few students to the limited status or second bachelor’s programs each year. If you are not eligible for the second bachelor’s or the limited status programs, you may consider concurrent enrollment through UC Berkeley Extension as an alternative. For more information, call (510) 642-4111.

Registration and Enrollment in Classes

Tele-BEARS

Tele-BEARS is an interactive computer system that allows you to enroll in classes via the Internet. With Tele-BEARS, you always receive the most immediate, up-to-the-moment information regarding your registration and class enrollment.

How Tele-BEARS Works

To ensure the fairest possible distribution of courses to the student body, enrollment in classes is spread over two phases and an adjustment period. Phase I, starting toward the end of the previous semester, allows you to enroll in a maximum of 10 units plus one physical education activity course. In Phase II, starting immediately after Phase I, you may complete your enrollment by enrolling in courses up to your college or school maximum. You may then add and drop courses during the adjustment period, which starts one week before instruction.

Access to Tele-BEARS is regulated by pre-assigned appointments that are spread throughout each phase period. To enroll and register through Tele-BEARS, follow these steps:

Obtain Your Tele-BEARS Appointment—Your Tele-BEARS appointments for Phases I and II are made available online via Bear Facts. (See page 38 for information on how to access Bear Facts.) The Office of the Registrar will send you a notification by e-mail when the appointments are available.* If you require academic advising, you will also be required to obtain an Adviser Code (AC) from your major adviser or college/school dean’s office.** The AC must be entered when you first access Tele-BEARS each semester.

Enroll in Classes—With the online Schedule of Classes and the General Catalog, you can determine a class schedule. If you will be a new student, you are encouraged to attend the Cal Student Orientation (CalSO) program to obtain your AC and to help you choose classes and formulate a schedule tailored to your particular academic interests. Contact the CalSO office, (510) 642-4970, for information. Once

*Appointments for continuing and readmitted students are usually made available in mid-March for the fall semester and mid-October for the spring semester. Appointments for new students are usually made available in mid-May for the fall semester and late October for the spring semester.

**New students in the College of Engineering and the College of Letters and Science must obtain their AC’s from the Cal Student Orientation (CalSO) program.

There are three things in college—sleep, social, and academic—but you can have only two of them.

1st-year student
Alternatives to Overcrowded Courses

If you are unable to get your first choice of a particular class, think creatively. Check with an adviser to determine whether an alternative course is a viable option for you. Consider these examples:

**Economics:** Environmental Economics and Policy (ENVECON) 1 is accepted as equivalent to Econ 3; ENVECON 101 to Econ 125; ENVECON 151 to Econ 171.

**Psychology:** Consider alternatives outside the Psychology Department: cognitive science (UGIS), developmental psychology (Education), biological psychology (MCB), or organizational psychology (Business). See also Social Welfare and Public Health.

**Literature:** Many language departments offer literature courses in translation. For an exhaustive list, see the online Schedule of Classes.

**Political Science:** Consider offerings in Public Policy and Environmental Science, Policy, and Management.

**Letters and Science Breadth Requirements:** L&S accepts many classes from other colleges in satisfaction of its breadth requirements. See also L&S courses taught by pre-eminent faculty in each field. These courses fulfill L&S breadth requirements and give non-majors a chance to experience in-depth study in a variety of subjects.

You have selected your classes, you are ready to use Tele-BEARS to enroll.

**Pay Registration Fees**—A monthly billing statement indicating all University fees due will be generated for you and posted online by the Billing and Payment Services office. You may pay your fees in full or in five installments on the Deferred Payment Plan. Fee payment (either in full or the first installment) is due on August 15 for the fall semester and January 15 for the spring semester. For more information, please see the Billing and Payment Service web site at billing.berkeley.edu.

**The Deferred Payment Plan**—You may pay your registration fees in five installments if you wish. A nonrefundable processing fee will be charged to your first installment. Your billing statement will indicate the amount due for the first payment; subsequent statements for the remaining payments will be generated for you automatically. For full information about the Deferred Payment Plan, see the Billing and Payment Services web site at billing.berkeley.edu.

**Bear Facts**

Bear Facts provides information regarding your registration, grades, financial aid, billing, class schedule, and more. You can access Bear Facts at bearfacts.berkeley.edu.

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**Undergraduate Majors and Degrees**

### Planning for a Major

The decision on the choice of a major is a very important one and should be made on the basis of your interests and abilities as well as your career goals. You should look carefully into the programs available by using this catalog and by visiting departments in which you are interested. Your adviser can help you explore the possibilities of interdisciplinary majors, which you take by declaring a group major or field major. If the major you are interested in is offered in more than one college or division, your adviser can help you choose the one that best suits your academic goals.

You are strongly urged to declare your major as soon as possible and should begin thinking about possible majors in your first year at Berkeley. Some majors require a full four years to complete; most majors require that some or all of the lower division major requirements be completed before you may be accepted into the major. Since you are expected to be accepted into a major by the time you have completed 60 units, these lower division major requirements should be planned into your program for the first two years. It is possible for you to plan a program that would include preparation for more than one major, an easy task if the majors in question have some lower division requirements in common.

Some majors are very crowded and cannot accommodate all applicants. You should consult closely with the departments in which you have an interest to learn of any restrictions that have been placed on entry to the major.

### Declaration and Change of Major

Regulations and procedures for declaring the major vary for each college. You may, at any time up to the last semester of residence, file a petition for a change of major. (This policy does not apply to students in the College of Engineering.*) You must secure approval for this action from the dean or other authorized person in the college or department to which you are transferring.

### Preparation for Graduate Study

If you are preparing for study toward a higher degree, you should learn, as early as possible, the entrance and degree requirements of your graduate field, in order to include all prerequisite steps in your undergraduate program.
Undergraduate Degrees

African American Studies, B.A.
American Studies, B.A.
Anthropology, B.A.
Architecture, B.A.
Art (History of), B.A.
Art (Practice of), B.A.
Asian Studies, B.A.
Asian American Studies, B.A.
Astrophysics, B.A.
Business Administration, B.S.¹
Celtic Studies, B.A.
Chemical Biology, B.S.
Chemical Engineering, B.S.
Chemistry, B.A. or B.S.²
Chicano Studies, B.A.
Chinese Language, B.A.
Classical Civilizations, B.A.
Classical Languages, B.A.
Cognitive Science, B.A.
Comparative Literature, B.A.
Computer Science, B.A. or B.S.³
Conservation and Resource Studies, B.S.
Dance and Performance Studies, B.A.
Development Studies, B.A.
Dutch Studies, B.A.
Earth and Planetary Science, B.A.

Undergraduate specializations: Geology, Geophysics, Environmental Earth Science, Atmospheric Science, Marine Science Economics, B.A.

Engineering, B.S.


English, B.A.
Environmental Economics and Policy, B.S.
Environmental Sciences, B.A., B.S.⁴
Ethnic Studies, B.A.
Film, B.A.
Forestry and Natural Resources, B.S.
French, B.A.
Gender and Women’s Studies, B.A.
Genetics and Plant Biology, B.S.
Geography, B.A.
German, B.A.
Greek, B.A.
History, B.A.
Integrative Biology, B.A.
Interdisciplinary Studies Field Major, B.A.
Italian Studies, B.A.
Japanese Language, B.A.
Landscape Architecture, B.A.
Latin, B.A.
Latin American Studies, B.A.
Legal Studies, B.A.
Linguistics, B.A.
Mathematics, B.A.
Mathematics, Applied, B.A.
Media Studies, B.A.
Microbial Biology, B.S.
Middle Eastern Studies, B.A.
Molecular and Cell Biology, B.A.
Molecular Environmental Biology, B.S.
Molecular Toxicology, B.S.
Music, B.A.
Native American Studies, B.A.
Near Eastern Studies, B.A.
Nutritional Science, B.S.
Operations Research and Management Science, B.A.
Peace and Conflict Studies, B.A.
Philosophy, B.A.
Physical Sciences Field Major, B.A.
Physics, B.A.
Political Economy, B.A.
Political Science, B.A.
Psychology, B.A.
Religious Studies, B.A.
Rhetoric, B.A.
Scandinavian, B.A. (Danish, Norwegian, Swedish)
Slavic Languages and Literatures, B.A.
Social Welfare, B.A.

¹The Haas School of Business requires completion of 60 semester units for admission into its program.
²A chemistry major may be taken either in the College of Chemistry (B.S.) or in the College of Letters and Science (B.A.).
³Computer science may be studied either in the College of Engineering (B.S. in computer science and engineering) or in the College of Letters and Science (B.A.).
⁴An environmental sciences major may be taken either in the College of Natural Resources (B.S.) or in the College of Letters and Science (B.A.).
Minors

Minors are offered at Berkeley in many departments and groups in the College of Letters and Science:

African American Studies
Anthropology
Art History
Art Practice
Asian Studies
Astrophysics
Celtic Studies
Classics
Creative Writing (UGIS)
Dance and Performance Studies
Demography
Disability Studies
Dutch Studies
Earth and Planetary Science
East Asian Languages and Cultures
English
Ethnic Studies
French
Gender and Women’s Studies
Geography
German
Global Poverty and Practice
Italian Studies
Jewish Studies
Lesbian, Gay, Bisexual, and Transgender Studies
Linguistics
Mathematics
Medieval Studies
Middle Eastern Studies
Music
Near Eastern Studies
Peace and Conflict Studies
Philosophy
Physics
Political Economy
Public Policy
Religious Studies (UGIS)
Rhetoric
Scandinavian
Slavic Languages and Literatures
South and Southeast Asian Studies
South Asian Archaeology
Spanish and Portuguese
Statistics
Theater and Performance Studies

1Applicants interested in vision science should apply for optometry and contact an adviser after admission.

Undergraduate Education

The College of Natural Resources offers these minors:

Conservation and Resource Studies
Environmental Economics and Policy
Forestry
Molecular Toxicology
Nutritional Science

Minors are also offered in the College of Engineering, the College of Environmental Design, the School of Education, and the Goldman School of Public Policy. For more detailed information and lists of the minors available, see the individual colleges and schools in the “Courses and Curricula” section of this catalog.

Undergraduate Degree Requirements

As soon as you have been accepted for admission to Berkeley, you should learn the requirements you will have to fulfill to earn your bachelor’s degree. These requirements are prescribed by four sources: the University, the Berkeley campus, your college or school, and your department. All are summarized below.

University Requirements

The University sets two general requirements for the baccalaureate degree: Entry-Level Writing (formerly Subject A) and American History and Institutions.

Entry-Level Writing Requirement

The University assumes that you are proficient in English and in writing about academic topics. Fulfillment of the University of California Entry-Level Writing requirement (formerly known as the Subject A requirement) is a prerequisite to enrollment in all reading and composition courses. If you have not passed the Analytical Writing Placement Examination (AWPE—for merly known as the Subject A Examination) or otherwise fulfilled the requirement by the time you enter the University, you should enroll in College Writing R1A during your first semester. College Writing R1A is a 6-unit course that satisfies the Entry-Level Writing requirement and the first half of the Reading and Composition requirement.

In addition to a passing score on the AWPE, the Office of Undergraduate Admissions accepts the following means of fulfilling the Entry-Level Writing requirement before you enter the University:

- A minimum score of 680 on the SAT Reasoning Test, Writing Section
- A minimum score of 680 on the SAT II: Subject Test in Writing
- A minimum score of 30 on the ACT combined English/Writing Test
- A minimum score of 3 on the Advanced Placement Test in English Composition and Literature or in English Language and Composition
• A minimum score of 5 on the International Baccalaureate Higher Level Examination in English (Language A only)
• A minimum score of 6 on the International Baccalaureate Standard Level English and Exam
• A minimum grade of C in a transferable college-level English composition course completed at an accredited college or university and accepted by the Office of Undergraduate Admissions at Berkeley.

**American History and Institutions Requirements**

The American History and Institutions requirements are based on the principle that a U.S. resident graduated from an American university should have an understanding of the history and governmental institutions of the United States. These requirements may be met as follows:

1. **Ways to Satisfy the American History and the American Institutions Requirements Before Enrolling at Berkeley:**
   - By fulfilling the portion of the “a” subject requirement for admission that consists of one year of U.S. history or one-half year of U.S. history and one-half year of U.S. government in high school with a grade of C or better.
   - By passing with a grade of C or better, or P, one quarter or semester of a transferable course in basic U.S. history or U.S. government at a college or university before entering Berkeley. Students may also go to assist.org to find California community college courses that have been approved to satisfy the American History and American Institutions requirement. Inquiries about specific courses should be directed to the Office of Undergraduate Admissions, 110 Sproul Hall.
   - By passing the International Baccalaureate Higher Level (IBHL) History of the Americas exam with a score of 5, 6, or 7.
   - By passing the Advanced Placement (AP) American History exam with a score of 3, 4, or 5 or the SAT Subject Test in U.S. history with a score of 550 or better.
   - Passing the Advanced Placement (AP) American Government and Politics (not the Comparative Government and Politics) exam with a score of 3, 4, or 5 will satisfy the American Institutions requirement only.
   - For students transferring from another UC campus: by passing with a grade of C or better, or P, any course or courses that satisfy the AH&I requirements of that campus.

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1892: The first “Big Game” between Cal and Stanford.
1895: Following a spectacularly successful tour through the East by the UC track team, California teams become known as the “Golden Bears.”
1914: At the Big Game, Cal students in the football stands use cards of varying colors to form patterns, the first recorded use of card stunts at a college football game.
1921: The 1920 California football team, considered one of the greatest college teams of all time, culminates its undefeated season with a 28-0 victory over Ohio State in the Rose Bowl. During the season, the Golden Bears scored 510 points to their opponents’ 14.
1924: Helen Wills, a freshman, wins national and international singles titles in tennis and teams with alumna Hazel Hotchkiss to win the same crowns in doubles.
1928: The crew team wins the first of three Olympic championships for Berkeley crews.
1933-65: Brutus Hamilton, two-time Olympic participant in the 1920s, coaches Cal’s track and field teams for 33 years.

(continued on next page)
II. Ways to Satisfy the American History and the American Institutions Requirements After Entering Berkeley:

Note: Students who still need to satisfy the AH&I requirements, after enrolling at Berkeley, must complete two courses: (1) one course to satisfy the American History requirement and (2) one course to satisfy the American Institutions requirement.

• For the History requirement—By passing with a grade of C- or better, or P, at Berkeley, one course from among the following: History 7A, 7B, 130B, 131A, 131B, or 138.

• For the Institutions requirement—By passing with a grade of C- or better, or P, at Berkeley, one course from among the following: Political Science 1, 1AC, or 108A.

• By passing with a grade of C or better, or P, a course (or courses)—approved by the Office of Undergraduate Admissions (110 Sproul Hall)—at another collegiate institution

• By mixing these alternatives (i.e. taking an approved course at Berkeley for one requirement and an approved course at another college for the other requirement).

• New Students—You can check the status of your AH&I requirements by logging into Bear Facts (bearfacts.berkeley.edu) mid-way through your first semester at Berkeley.

For the latest changes in AH&I policy, visit the Office of the Registrar’s web site at register.berkeley.edu.

III. International Students: The AH&I requirements will be waived if you have at least 90.5 semester units (senior status) and hold both a current, non-immigrant visa (F is the most common) and an I-94 departure record. You must present your visa and I-94 record to the Office of the Registrar, 120 Sproul Hall, during the semester in which you will graduate.

Berkeley Campus American Cultures Breadth Requirement

Students who entered Berkeley in fall 1991 or thereafter in lower division standing with 0-55 semester units and all students who entered in fall 1993 or thereafter must satisfy the American Cultures Breadth requirement in order to graduate. You satisfy the requirement by passing, with a grade not lower than C- or P, an American Cultures course. You may take an American Cultures course any time during your undergraduate career at Berkeley. International students must satisfy the requirement.

A Berkeley faculty committee determines which courses satisfy the requirement. Faculty from many departments teach American Cultures courses, but all courses have a common framework. The courses focus on themes or issues in United States history, society, or culture; address theoretical or analytical issues relevant to understanding race, culture, and ethnicity in our society; take substantial account of groups drawn from at least three of the following: African Americans, indigenous peoples of the United States, Asian Americans, Chicano/Latino Americans, and European Americans; and are integrative and comparative in that students study each group in the larger context of American society, history, or culture. The courses also provide students with the intellectual tools to understand better their own identity and the cultural identity of others in their own terms.

American Cultures courses may also meet other requirements, such as a college or school’s breadth requirement or a department’s major requirement.

See the online Schedule of Classes or the American Cultures web site (americancultures.berkeley.edu) for the specific American Cultures courses offered each semester. See your academic adviser if you have questions about your responsibility to satisfy the American Cultures Breadth requirement.

College and School Requirements

Each college and school has established a program of requirements for the degree, which may be in addition to those of a field of concentration. These requirements may include: (1) preparatory subject requirements for admission; (2) preparatory college-level courses for your particular field of study—to be completed, if possible, during your early period of residency in the college or school, or in some cases before entrance; (3) breadth requirements, courses outside the field of study, considered essential to a well-rounded curriculum; (4) the credit requirement, which is the total number of units to be completed, with specifications of how these credits are to be distributed; and (5) a minimum scholarship requirement. For detailed information, you should obtain a copy of the announcement of your college or school.

Reading and Composition Requirement

The Berkeley campus is strongly committed to developing high levels of ability in critical thinking and communication among its undergraduates. Hundreds of courses require long papers and a number of courses provide training in writing or speaking. In addition to the Universitywide Entry-Level Writing requirement, the College of Letters and Science and most other colleges and schools require two semesters of lower division work in composition. The following departments and programs offer writing courses that satisfy all or part of the Reading and Composition requirement:

- African American Studies
- Asian American Studies
- Celtic Studies
- Chicano Studies
- College Writing
- Comparative Literature
- English
Undergraduate Education

Departmental Requirements

Every student must select a field of concentration and pursue a major or curriculum, normally by taking a minimum number of units in one department or school. Occasionally, as with business administration and others, the school and the department are synonymous. In some cases a major may embrace more than one department, as with the interdisciplinary studies field major in the College of Letters and Science.

Major Requirements

Major requirements that must be fulfilled before you may receive a baccalaureate degree are outlined in each department in the “Courses and Curricula” section of this catalog. See also your department adviser.

Declaration of Candidacy

If you know at the beginning of a semester that you will have fulfilled graduation requirements by the end of the semester, enter the appropriate code when you access the Tele-BEARS registration system. You may also declare your candidacy in person in the Office of the Registrar, 120 Sproul Hall. The period for declaring candidacy is the first five weeks of the semester. Up to the end of the third week, you can declare with no fee, and from the third to the end of the fifth week there is a $5 fee. If for any reason you do not meet the requirements for graduation after declaring your candidacy, you must file a new declaration in the filing period for the subsequent term in which the degree will be awarded.

Senior Residence Requirement

After you have completed 90 units toward the bachelor’s degree, you must complete at least 24 of the remaining units in residence in no fewer than two semesters in the college or school of the University in which you will take your degree. You must begin these final 24 units in the semester in which you exceed 90 units. You should consult the announcement of your college or school for details concerning the senior residence requirement as it pertains to the summer session.

Minimum Scholarship Requirement

If you fail to maintain the minimum grade-point average prescribed by your college or school, you will normally be dismissed or put on probation. Since scholarship rules are applied only at the close of regular sessions, grade points that you earn in a University of California summer session or by removing an Incomplete grade are not taken into consideration until the close of your next semester of attendance.

1992: The Bears finish among the top 10 football teams in the country with a Citrus Bowl win and 10-2 record. It is their most successful season in decades.
1993: Men’s basketball reaches the Sweet 16 of the NCAA Tournament for the first time since 1960. Rugby wins its 10th national title in the last 14 years.
1993-94: Jason Kidd, the most notable Cal basketball player in several decades, leads Cal to the NCAA Sweet 16 in ’93 and again to the NCAA Tournament in ’94.
1996: New head football coach Steve Mariucci leads the Bears to an Aloha Bowl berth before accepting a post-season offer to become head coach with the San Francisco 49ers.
1997: The Bears make it all the way to the Sweet 16 of the NCAA basketball tournament with a 23-9 record under first-year head coach Ben Braun.
1998: Cal captures its eighth consecutive national rugby crown with a 34-15 victory over Stanford and its second straight NCAA men’s gymnastics title on the heels of a 23-0 record.
1999: The Bears’ varsity and freshman eights each win gold at the IRA National Crew Championships. Michael Ashe of the men’s gymnastics squad brings home the national title on the horizontal bar. Rugby wins its 10th consecutive crown.

(continued on next page)
If you are an unregistered student at the time you are ready to declare your candidacy, you may go in person to 120 Sproul Hall to fill out the Candidate for Bachelor’s Degree form. The form is also available at registrar.berkeley.edu under “general information/forms.” It can be mailed to Office of the Registrar, 124 Sproul Hall, University of California, Berkeley, CA 94720-5404. The filing deadline is the same as that stated above.

Note: The Office of the Registrar does not backdate degrees.

General Rules and Academic Policies

See also the section “Academic Policies,” beginning on page 73.

Academic Probation

Regulations and procedures governing academic probation vary with each college and school. For specific details, consult your college or school announcement. Students on probation are not entitled to take courses with a passed/not passed option.

Academic Dismissal

Regulations and procedures governing academic dismissal vary with each college and school. For specific details, consult your college or school announcement.

If you are dismissed, you may appeal for a hearing by formal petition to the dean of your college or school, but the action of dismissal is normally considered final. If you are dismissed and want to transfer to another college or school at Berkeley, you may petition the dean of that college or school.

Minimum Progress

For undergraduates, normal progress toward a degree requires 30 units of successfully completed coursework each year. If you fail to achieve minimum academic progress, you may continue to be enrolled only with the approval of the dean of your college or school. To achieve minimum academic progress, you must have successfully completed a number of units no fewer than 15 times the number of semesters, less one, in which you have been enrolled on the Berkeley campus. Summer Session is not counted as a semester. A course load of 15 units per semester is considered normal. Minimum course load requirements, however, vary by college or school; see the specific college or school announcement for details. If you enroll in a course load of fewer units than the minimum, you will need to have your schedule approved by the dean of your college or school.

Progress Toward a Degree

At the close of each semester, the courses, units, grades, and grade points earned are added onto your cumulative University record. From this record, you may determine your progress toward a degree.

In working for a degree, you should keep in mind the various levels on which you must satisfy requirements—University, campus, college or school, and department—as well as the kinds of requirements you must fulfill: course, unit, grade point, and amount of upper division work. You may receive additional counsel in these matters from your adviser.

Cross-Registration Programs with Other Schools

Berkeley has cross-registration programs with California State University, East Bay; Mills College; San Francisco State University; Sonoma State University; Holy Names University; John F. Kennedy University; Dominican University; and St. Mary’s College. With the approval of your adviser and the dean of your school, you may register and pay applicable fees at Berkeley and be exempt from tuition and fees at the host campus. You may enroll for only one course per semester at the host campus.

In addition to these established programs, any Berkeley student may attend a class each semester at any one of the campuses of the California State University, other UC campuses, or the community college systems. Under these programs, students from the other institutions can also attend classes at Berkeley. Students participating in this exchange program may be subject to a $10 administrative fee, depending on the institution. Berkeley currently does not require this fee of students from the other state campuses.

For more information, call the Office of the Registrar at (510) 642-5990 or e-mail orreg@berkeley.edu.

Studying Abroad

A shrinking world and expanding communication technology have made it increasingly important for practitioners in many fields to be able to function in an international context. The Education Abroad Program (EAP) at Berkeley offers a broad spectrum of opportunities for students to gain first-hand experience living in other cultures while progressing toward their bachelor’s degrees. EAP offers a diverse array of programs across all the major disciplines in 34 countries, and students earn University credit for their participation while enhancing their undergraduate experience.

Options include semester-long, year-long, and summer programs. Some programs do not require
foreign language proficiency. Financial aid recipients qualify for financial assistance while abroad on EAP, and the costs of many of the programs are less than those incurred by students who remain on the Berkeley campus. Scholarship and grant money is available specifically for EAP students, so do not let financial concerns discourage you from considering education abroad among your educational goals.

For further information, consult your academic advisers and the Education Abroad adviser in the Berkeley Programs for Study Abroad office, 160 Stephens Hall, (510) 642-1356. E-mail: eapucb@berkeley.edu. Web sites: studyabroad.berkeley.edu or eap.ucop.edu.

Programs Not Sponsored by the University of California

Many Berkeley undergraduates choose to attend overseas study programs sponsored by institutions and organizations other than the University of California. To obtain information about these programs, you should contact the programs directly. Among helpful web sites for accessing non-UC study abroad programs are www.studyabroad.com, www.goabroad.com, or www.iiepassport.org. The office of Berkeley Programs for Study Abroad, 160 Stephens Hall, (510) 642-1356, has a small library of information on non-UC programs. Credit for coursework completed may or may not be granted, depending on a review of your final transcript by the Office of the Registrar. Before enrolling in any program, consult with the international admission specialists at 110 Sproul Hall, (510) 642-3246, concerning the transferability of the coursework for a particular program. Finally, consult with a college and major adviser as to the appropriateness of your proposed courses toward degree progress and procedures for readmission.

The UC Berkeley Washington Program

The UC Berkeley Washington Center hosts 25-30 juniors and seniors from all majors during the fall and spring of each year. The academic program allows students to combine coursework at the UC Washington Center with field research in an internship that reflects each student’s particular area of interest. Participants have worked in a wide variety of organizations and agencies. All participants will be registered as full-time Berkeley students and will remain eligible for financial aid as long as they meet the minimum number of units.

Applicants must have a minimum 3.0 GPA and have achieved junior status by the start of their semester in Washington. Applicants must have taken at least two upper division courses on the Berkeley campus that will prepare them for the research project they will pursue in Washington.

For more information, contact the UC Berkeley Washington Program Office, 301 Campbell Hall #2922; call (510) 642-9102; e-mail ucdc@berkeley.edu; or visit ucdc.berkeley.edu.

Studying abroad is about incredible people, exciting places, growing up, and seeing more. For a year, I had an entire continent as a classroom away from Cal. For me, this experience was an amazing package deal.

EAP participant in Leeds, England (English major)
Research and Internships

Berkeley offers many opportunities for you to conduct research projects and engage in internships either as volunteers or paid employees.

Office of Undergraduate Research (OUR)

OUR 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, the laboratories, and the archives. Whether assisting faculty with research or pursuing their own research under faculty supervision, Berkeley students can experience what it means to be a part of cutting-edge research at a world-class research university. For information on the great variety of undergraduate research opportunities at Berkeley, visit the Undergraduate Research@ Berkeley web site at research.berkeley.edu or e-mail research@learning.berkeley.edu.

Undergraduate Research Apprentice Program (URAP)

URAP is the ideal place for students to begin to put their classroom learning to use. As research apprentices, students gain skills and perspectives as they assist faculty with research. Over 1,000 students participate in this program each year, working with faculty from nearly every department and college. Visit the URAP web site for a current list of faculty projects at research.berkeley.edu/urap.

When students are ready to embark on research of their own design, the Summer Undergraduate Research Fellowship, the Haas Scholars Program, and the David Scholars Program offer fellowships that allow students to pursue sophisticated research. For information about these and other programs, go to research.berkeley.edu.

The Office of Undergraduate Research is located in 301 Campbell Hall, (510) 642-3795.

Internships

A wide variety of internships—loosely defined as structured field experience—is available to you on and off campus. The positions may be paid or unpaid, may sometimes carry academic credit, and may have educational and career value. Courses with field components occur principally in the 97, 98, 99, 197, 198, and 199 series. Check the course listings in the catalog for specific information. The following offices have listings of numerous internships, both on and off campus: the Career Center, 2111 Bancroft Way (career.berkeley.edu); Work-Study Program, 212 Sproul Hall (workstudy.berkeley.edu); Cal Corps Public Service Center, 505 Eshleman Hall (publicservice.berkeley.edu). Individual internship programs are available through campus-based offices. Look for internships on CalJobs at career.berkeley.edu/callisto/caljobs.stm or consult individual offices and departments.

Honors Courses

Berkeley offers some honors courses for highly qualified students, usually in their senior year. A few of these courses are available to lower division students. See your major adviser for information.

Freshman and Sophomore Seminars

The Freshman and Sophomore Seminars arose from the conviction that early intellectual contact with faculty members would greatly enhance the undergraduate experience at Berkeley. Professors from nearly every campus department join together each semester to offer an impressive array of seminars. The courses numbered 24 (and in some cases 90) bear 1 unit of credit; they are limited to 15 students, and freshmen are given priority for enrollment. The courses numbered 84 bear 1 or 2 units of credit; they are limited to 15 sophomores.

Seminars, which emphasize interaction and discussion, provide a counterpoint to the learning experience in Berkeley’s large lecture halls. These seminars also offer lower division students an unprecedented opportunity to explore a wide range of majors and even fields of study usually reserved for graduate students. As you browse through this catalog, you will find lower division seminars sponsored by Letters and Science departments, as well as by the professional schools and colleges.

Descriptions of all the seminars scheduled for the upcoming semester can be found in time for Tele-BEARS registration on the program’s web site, fss. berkeley.edu. The program also contains other useful information and features for undergraduates. For additional information regarding the Freshman and Sophomore Seminars, please contact the program office, 333 Campbell Hall, (510) 642-8378.

DeCal: Student-Initiated Courses

The Program for Democratic Education at Cal (DeCal), a student-run organization, promotes leadership and encourages students to initiate classes that will help maximize their educational experience at Berkeley. While departments have ultimate responsibility for approving and overseeing student-initiated classes, DeCal promotes opportunities for students to sample diverse disciplines for 1-4 units of credit on a passed/not passed basis. It also provides a forum for more advanced, focused study. The program encourages academic interests outside of the boundaries of established disciplines and has a long history of encouraging progressive, socially responsible courses.

As well as mainstream subjects, DeCal courses are ideal for explorations into issues of culture, race,
Undergraduate Education

They may also involve internships aimed at transforming theoretical knowledge into practical experience. For more information, contact the DeCal office at 320 Eshleman Hall, (510) 642-9127 or e-mail decalprogram@gmail.com. Also, visit their web site at decal.org.

Advising and Academic Assistance

College and Department Advisers

The College of Letters and Science has a staff of professional advisers who will help you plan your course of study, fulfill requirements, and eventually choose a major. After you have chosen a major, you will be assigned to an adviser who is a faculty member in your major department. Outside the College of Letters and Science, your adviser will most likely be a faculty member.

Student Learning Center

The Student Learning Center (SLC) Study Strategies Resources Program assists students in managing their current and future coursework by introducing appropriate study strategies. Professional staff and trained peer tutors connect students with an elaborate array of resources that enhance students’ retention and academic success. Services are holistic in approach, helping students with a range of courses.

Education 98/198, Strategies for Success at Cal, is a 2-unit, passed/not passed seminar that encourages discussion, emphasizes collaborative learning, and focuses on study strategies. The seminar for freshmen emphasizes time management and procrastination, active reading and learning, effective writing and communication, and test preparation. The seminar for continuing students examines the cognitive, metacognitive, and affective variables that determine success at Cal. By actively engaging in a collaborative problem-solving process with other students, peer mentors, and instructors, students establish goals, monitor progress, and improve their academic success. Education 98/198 assists students with learning disorders in achieving academic and personal success at Cal. This course increases knowledge about specific learning styles and disorders, improves the application of effective learning and study strategies, enhances learning by using assistive technology and campus resources, and develops written and oral communication abilities.

For more information about these courses and the SLC, visit the reception desk at the César Chávez Student Center on lower Sproul Plaza, call (510) 642-7332, or go to slc.berkeley.edu.

Dismissed by the Board of Regents after the Free Speech Movement, Clark Kerr said that he was leaving UC as he had entered it: “Fired with enthusiasm.”

Turning his freshman seminar into a chorus of bell-ringers, neurobiology lecturer David Presti leads a class on Music, Mind, Brain.

CAL Quiz No. 12

Who proposed building a ski lift on campus, and, given the absence of snow, for what purpose?

(Answer on page 524.)
Student Athletes
The Athletic Study Center, located in 179 César Chávez Center, offers academic support services for Berkeley's student athletes. Services are geared to ensuring academic achievement through academic advising, tutoring, study groups, and a computer lab. For more information, call (510) 642-8402 or go to asc.berkeley.edu.

Academic Excellence

Semester Honors
To be eligible for semester honors, you must have completed a minimum of 12 units undertaken for letter grades at Berkeley and must have achieved the minimum GPA required by your school or college. Schools and colleges may establish additional criteria that you must also meet.

Honors at Graduation
To be eligible for honors in general scholarship at graduation, you must have completed a minimum of 50 semester units at the University of California, of which a minimum of 43 units must be undertaken for a letter grade; completed a minimum of 30 units at Berkeley; and achieved a grade-point average that ranks you in your school or college in the top 3 percent for highest honors, the next 7 percent for high honors, and the next 10 percent for honors. These criteria are minimal; consult your college or school office.

Honor Societies
Berkeley has a number of honor societies that elect students in recognition of academic excellence. Among these are Phi Beta Kappa, a national honor society; the Prytanean Society, founded in 1900 to honor upper division and graduate women for academic accomplishment and service to the University; the Honors Students Society; Tau Beta Pi, the national honor society for all engineering disciplines and various other engineering honor societies (see the Student Guide to Engineering Societies, available at the Engineers Joint Council office); Alpha Mu Gamma, a national society for students with demonstrated excellence in languages; and individual societies in most language departments. See your adviser for more information.

Prizes
Awards for outstanding ability in some area of creative, scholarly, or athletic achievement are available at Berkeley in two general categories: competitive prizes for creative effort or departmental awards for outstanding scholastic achievement.

For more information, consult Undergraduate Scholarships, Prizes, and Honors at (510) 642-3498.

Scholarship Connection
Scholarship Connection is Berkeley’s clearinghouse for information on scholarships that are funded by sources outside the University. Enrolled Berkeley students may search for awards on Scholarship Connection’s online database at scholarships.berkeley.edu. In addition to providing information on many externally funded awards, Scholarship Connection also administers the campus recruitment and selection for several highly competitive awards, such as the Rhodes, Marshall, and Truman Scholarships. Scholarship Connection offers workshops and individual advising to help applicants prepare competitive applications for these prestigious awards. For more information, visit scholarships.berkeley.edu or contact Scholarship Connection, 301 Campbell Hall, scholarships@learning.berkeley.edu, (510) 643-6929.
Attacking problems from all sides, all disciplines

Whether it’s developing clean energy, safer buildings, astounding computers, or the potential to abate disease, students and faculty in Berkeley labs are changing our world. As an example, stem-cell research — and its potential for new treatments for Alzheimer’s, Parkinson’s, and other intractable diseases — is one of many bioscience pursuits in the interdisciplinary, collaborative environment of Stanley Hall.
A Selection of Books About Berkeley

Fiction
- Clarkson Crane
  The Western Shore.
- David Lodge
- George R. Stewart

Nonfiction
- Ansel Adams and Nancy Newhall
- Reinhard Bendix
- Kai Bird and Martin J. Sherwin
- Susan Dinkelspiel Cerny
- Robert Cohen and Reginald E. Zelnik, eds.
- William Warren Ferrier

Graduate Advisers

Graduate advisers are tenured faculty appointed by the dean of the Graduate Division for each department, school, or group before the beginning of the fall semester. Graduate advisers: (1) assist students in selecting programs of study; (2) act on petitions for study list changes only; and (3) maintain records of all students enrolled under their jurisdiction. In addition, the head graduate adviser: (1) endorses applications for candidacy for higher degrees and for qualifying examinations; (2) approves readmission applications and petitions by graduate students; and (3) assists the dean in the enforcement of regulations, particularly those relating to registration, admission to graduate courses, and maintenance of acceptable scholastic performance.

You may also have an individual or major adviser, usually assigned after you are advanced to candidacy for the doctorate, but frequently appointed in the earlier stages of your training. The individual or research advisers may be the same individuals as the major’s official graduate advisers. You should keep in close touch with your individual adviser and should confer with your official graduate adviser about your program of study.

Graduate Education

The main purpose of graduate study is to inspire independence and originality of thought in the pursuit of knowledge. As a graduate student you are expected to achieve mastery of your chosen field through advanced coursework, independent study, and research.

Graduate education embraces study for all degrees and certificates beyond the bachelor’s degree—principally the master’s and doctor’s degrees. Graduate degrees fall into two broad categories:

1. Professional—Degrees awarded by each professional college and school in recognition of a student’s command of a comprehensive body of professional knowledge and the ability to organize and carry out investigation of significant problems in the field;
2. Academic—Degrees awarded by the academic departments, some professional schools, and interdisciplinary graduate groups in recognition of a student’s command of a wide range of related subjects within an academic field, preparation in one or more foreign languages, and ability to pursue original research leading to a significant contribution to a field of study.

A list of graduate degrees appears later in this section. For more detailed information on graduate degree regulations and procedures, refer to the Guide to Graduate Policy on the Graduate Division web site at grad.berkeley.edu/policies/ggp/ggp.pdf.

The Nature of Graduate Education

Graduate study is the pursuit of knowledge through advanced coursework and research. Graduate courses demand a capacity for critical analysis and a specialization of research interests not normally appropriate for an undergraduate major. These courses may be conducted in a number of ways: (1) as advanced lecture courses; (2) as seminars in which faculty and students critically examine elected problems within the subject field; (3) as independent study or reading courses; or (4) as research projects conducted under faculty supervision.

You are accorded considerable liberty in your choice of courses, at the discretion of your graduate adviser, as long as you meet the minimum requirements for academic residence. These courses assume adequate preparation at the upper division level in the subject field. You may take upper division courses that will give you the background you need for advanced work, and you are not confined to graduate courses. Possession of a bachelor’s degree does not in itself entitle you to enroll in a graduate course.
Applying for Admission

A complete list of graduate academic departments, the degrees offered, and the deadlines for application can be found at grad.berkeley.edu/programs/list.shtml.

You must file a completed application to be considered for admission, in addition to any supplemental documents specific to the program for which you are applying. The online application can be found at grad.berkeley.edu/admissions. Paper applications are also acceptable and can be downloaded from the Graduate Admissions web page, cited above, or from the department to which you are applying. Applicants to the master’s programs in the Haas School of Business or programs at the School of Law should not use this application but should contact those schools directly.

You must submit an application fee when you apply. The application fee is not refundable. If you are a U.S. citizen or current permanent resident, the application fee is $70; for all other applicants, the fee is $90. Note: Fees are subject to change. You may pay the fee by credit card if you apply online. If you submit a check or money order, it must be drawn on a U.S. bank and made payable to “UC Regents.” U.S. citizens or current permanent residents who can demonstrate financial need are eligible to apply for a waiver of the application fee. Contact the Graduate Admissions office at gradadm@berkeley.edu for further information.

Limited Enrollment

Each graduate program at Berkeley has a maximum enrollment, which limits the number of applicants who may be accepted. Almost invariably, this maximum is smaller than the number of applicants who meet the minimum qualifications for admission. Selection procedures are designed to admit applicants in accordance with their relative merit and promise among those at least minimally qualified. It is to your advantage to inquire early about the possibility of study at Berkeley.

Admission Requirements

The minimum graduate admission requirements are: (1) a bachelor’s degree or recognized equivalent from an accredited institution; (2) enough undergraduate work to do graduate work in your chosen field; and (3) a satisfactory scholastic average, usually a minimum GPA of 3.0 (B).

Many departments or groups have additional requirements, including the GRE, TOEFL score minimums, higher GPA minimums, and number of copies of official academic records that must be submitted. Department contact information can be found at grad.berkeley.edu/programs/list.shtml.

Satisfying minimum standards, however, does not guarantee your admission, since the number of qualified applicants far exceeds the number of places available. As a result, many well-qualified applicants cannot be accommodated.

Graduate Record Examination (GRE)

Most departments, schools, and groups require applicants to take a standardized test such as the General Test of the GRE, a Subject Test of the GRE, the GMAT, MCAT, OAT, or LSAT. Check with the department to which you are applying for specific test requirements and deadlines. For more information, or to register for the GRE, consult their web site at gre.org or call 1-866-473-4373.

International Applicants

International applicants must fulfill all previously stated admission requirements and have an excellent command of the English language before beginning graduate study at Berkeley; students cannot be admitted to graduate standing to learn English. If you are applying from a country in which English is not the official language, you are required to submit
official evidence of English language proficiency. There are two standardized tests you may take, the Test of English Language as a Foreign Language (TOEFL) or the International English Language Testing System (IELTS). TOEFL is currently administered in three formats; paper and pencil, computer-based, and internet based (iBT). Minimum score and other requirements for these tests are listed on the admissions section of the graduate division web site. Individual academic departments may choose to require a higher score than the minimum requirement set. Further information on TOEFL can be found online at toefl.org or by calling 1-877-863-3546 or 1-609-771-7100. IELTS information can be found online at ielts.org.

Graduate students who plan to teach but do not speak English as a native language and do not hold a Bachelor’s degree from an institution in the United States must demonstrate oral English proficiency to be eligible for appointment as a Graduate Student Instructor (GSI). In those countries where the iBT TOEFL has been introduced, English language proficiency is determined by the speaking section score of the iBT TOEFL. In those countries where the new iBT TOEFL has not yet been introduced, students can demonstrate their proficiency by taking and passing the Test of Spoken English (TSE) before enrolling in Berkeley or the SPEAK test offered on the Berkeley campus. Information on passing scores, testing options, and language courses can be found on the GSI Teaching and Resource Center’s web site at gsi.berkeley.edu/lpp.

Special Circumstances

Readmission
If you have previously registered and withdrawn and want to re-enroll or have completed any graduate degree program at Berkeley, you must file an “Application for Readmission,” obtainable from the Registrar’s web site. A nontransferable, nonrefundable readmission fee of $70 must accompany the “Application for Readmission” when first submitted, or the application will not be reviewed. A “Statement of Legal Residence” (downloadable from the Registrar’s web site) must also be submitted. Note: Approval of readmission is not guaranteed. The Graduate Division and your department, school, or group will review your application and academic record and notify you whether your readmission has been approved.

Duplication of Higher Degrees
Normally, duplication of doctoral-level degrees is not permitted. Students may enroll for a second academic or professional degree if the second degree is in a distinctly different field.

Reactivation of Application
The Graduate Division keeps application materials on file for two years. If you filed an application within the past two years but did not complete the application process, were denied admission, or were admitted but did not register, you may reactivate your previous file by submitting a new application form and fee by the established deadline for the semester in question.

Notification of Action on Admission
A written notice from the dean of the Graduate Division is the only valid proof of admission. Admission to graduate study is limited by the number of places available in the various colleges, schools, graduate groups, and departments of Berkeley. If you have applied for admission and fellowship consideration, you should be notified by April 1 of the action on your applications. If you have applied for admission only, you will be advised as soon as possible after a decision has been reached. Normally, however, acceptance letters for admission only will not be issued until after March for the fall semester.
Registration and Enrollment in Classes

Tele-BEARS

Tele-BEARS is an interactive computer system that allows you to enroll in classes online. With Tele-BEARS, you always receive the most immediate, up-to-the-moment information regarding your registration and class enrollment.

How Tele-BEARS Works

To ensure the fairest possible distribution of courses to the student body, enrollment in classes is spread over two phases and an adjustment period. Phase I, starting toward the end of the previous semester, allows you to enroll in a maximum of 12 units plus one physical education activity course. In Phase II, starting immediately after Phase I, you may complete your enrollment by enrolling in additional courses if necessary. You may then add and drop courses during the adjustment period, which starts one week before instruction and extends through the first three weeks of instruction.

Access to Tele-BEARS is regulated by pre-assigned appointments that are spread throughout each phase period. To enroll and register through Tele-BEARS, follow these steps:

Obtain Your Tele-BEARS Appointments—Your Tele-BEARS appointments for Phases I and II are made available online via Bear Facts. (See below for information on how to access Bear Facts.) The Office of the Registrar will notify you by e-mail when the appointments are available.* If you require academic advising, you will also be required to obtain an Adviser Code (AC) from your graduate adviser. The AC must be entered when you first access Tele-BEARS each semester. For more information, see the Billing and Payment Services web site at billing.berkeley.edu.

Enroll in Classes—With the online Schedule of Classes and the General Catalog, you can determine a class schedule. Once you have selected your classes and have obtained your Adviser Code (AC) from your graduate adviser, you can use Tele-BEARS to enroll. For more information, see the Registrar’s Office web site at registrar.berkeley.edu.

Pay Registration Fees—A monthly billing statement indicating all University fees due will be generated for you and posted online by the Billing and Payment Services Office. You may pay your fees in full or in five installments on the Deferred Payment Plan. Fee payment (either in full or the first installment) is due on August 15 for the fall semester and January 15 for the spring semester. For more information see the Bill and Payment Services web site at billing.berkeley.edu.

The Deferred Payment Plan—You may pay your registration fees in five installments if you wish. A nonrefundable processing fee will be charged to your first installment. Your billing statement will indicate the amount due for the first payment; subsequent statements for the remaining payments will be generated for you automatically. For full information on the Deferred Payment Plan, see the Billing and Payment Services web site at billing.berkeley.edu.

Bear Facts

Bear Facts provides information regarding your registration, grades, financial aid, billing, class schedule, and more. You can access Bear Facts at bearfacts.berkeley.edu.

Statement of Intention to Register

The admission letter to new (including reactivating) graduate students contains a Statement of Intention to Register that must be filled out and returned to the Graduate Admissions Office. Only the return of the form to the Graduate Admissions Office indicating an intention to register will reserve the registration slot allocated to you. If you do not want to accept the offer of admission, you should complete and return the Declination of Admission section so that your place can be allocated to another applicant. We will send you information about enrolling in classes after we receive your Statement of Intention to Register accepting admission.

*Appointments for continuing and readmitted students are usually made available in mid-March for the fall semester and mid-October for the spring semester. Appointments for new students are usually made available in early August for the fall semester and in early January for the spring semester.
Graduate Education

Cancellation of Registration

Students who have registered and decide before classes begin not to attend Berkeley may cancel their registration. For further information, contact the Office of the Registrar or visit its web site at registrar.berkeley.edu.

Class Schedule and Unit Load

Courses are classified as lower division (numbered 1 through 99); upper division (100-199); graduate (200-299); professional, for teachers or prospective teachers (300-399); special study for preparation for the master’s exam (601); and special study for preparation for the doctoral qualifying exam (602). Lower division courses are not counted as part of a full program of study leading to a higher degree. You must be enrolled in 12 units in 200 series (or above) to be considered a full-time student. International students on F-1 or J-1 visas should also enroll in 12 units, but there may be exceptional circumstances where they may enroll in fewer units and be considered full-time. For more information, contact the Berkeley International Office at internationaloffice.berkeley.edu. (For information on courses in the 600 series, see page 75.)

Failure to Register

If you do not complete the online Statement of Intention to Register or return it but do not register for the semester in which you were admitted, you must reapply if you want to attend any subsequent semester. You have no priority over other applicants for any subsequent semester by virtue of your previous admission.

Registration

To maintain good standing as a graduate student, you must register with the Office of the Registrar each semester until you complete all requirements for the degree. You can satisfy the requirement for full-time continuous registration by attending both semesters of an academic year. You must be registered or pay the filing fee, whichever is applicable, for the semester in which your degree is conferred. If you hold a nonimmigrant visa, you must be registered for both semesters of each academic year unless you have special permission from the Immigration Service to do otherwise. Consult an adviser at the Berkeley International Office for further information.

In summary, you must register in any semester in which you are enrolled in formal courses of instruction, taking a comprehensive or qualifying exam, filing a thesis or dissertation, or are making any use of nonpublic University facilities, including access to the faculty.

If your studies or research requires absence from California for the semester, you must file a petition requesting absence and a reduction of the University fees with Graduate Degrees, 318 Sproul Hall.

Special Information for New Graduate Students

If you will be a new graduate student, you will not use Tele-BEARS until shortly before the beginning of instruction. You must meet with your graduate adviser to approve your class schedule and obtain an Advisor Code (if required).

Berkeley’s Nobel Tradition

1939: Ernest Lawrence (deceased), professor of physics, wins Nobel Prize for physics.
1946: John Northrop (deceased), professor of bacteriology and biophysics, wins Nobel Prize for chemistry.
1946: Wendell Stanley (deceased), professor of chemistry, wins Nobel Prize for chemistry.
1949: William Giauque (deceased), professor of chemistry, wins Nobel Prize for chemistry.
1951: Edwin McMillan and Glenn Seaborg (both deceased), professors of physics, wins Nobel Prize for physics.
1959: Emilio Segré and Owen Chamberlain (both deceased), professors of physics, wins Nobel Prize for physics.
1961: Melvin Calvin (deceased), professor emeritus of chemistry, wins Nobel Prize for chemistry.
1964: Charles Townes, professor of physics, wins Nobel Prize for physics.
1968: Luis Alvarez (deceased), professor of physics, wins Nobel Prize for physics. (continued on next page)
Graduate Degrees and Certificates

Academic degrees are the M.A., M.S., M.F.A., and Ph.D. All other degrees and certificates are professional. The J.D. (Juris Doctor) is the basic law degree. It is a graduate degree, and if interested you should apply directly to the School of Law.

Graduate degrees and certificates are listed below:

<table>
<thead>
<tr>
<th>Major Area</th>
<th>Degree Options</th>
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</thead>
<tbody>
<tr>
<td>African American Studies</td>
<td>M.A., Ph.D.</td>
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<tr>
<td>Agricultural and Resource Economics</td>
<td>M.S., Ph.D.</td>
</tr>
<tr>
<td>Ancient History and Mediterranean Archaeology</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>Anthropology</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>Applied Mathematics</td>
<td>Ph.D.</td>
</tr>
<tr>
<td>Applied Science and Technology</td>
<td>M.S., Ph.D.</td>
</tr>
<tr>
<td>Architecture</td>
<td>M.S., M.Arch., Ph.D.</td>
</tr>
<tr>
<td>Art</td>
<td>M.F.A.</td>
</tr>
<tr>
<td>Asian Studies</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>Astrophysics</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>Bioengineering</td>
<td>M.S., Ph.D.</td>
</tr>
<tr>
<td>Biophysics</td>
<td>Ph.D.</td>
</tr>
<tr>
<td>Biostatistics</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>Buddhist Studies</td>
<td>Ph.D.</td>
</tr>
<tr>
<td>Business Administration</td>
<td>M.B.A., M.F.E., Ph.D.</td>
</tr>
<tr>
<td>Chemical Engineering</td>
<td>M.S., Ph.D.</td>
</tr>
<tr>
<td>Chemistry</td>
<td>M.S., Ph.D.</td>
</tr>
<tr>
<td>Chinese Language</td>
<td>(see East Asian Languages and Cultures)</td>
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<tr>
<td>City and Regional Planning</td>
<td>M.C.P., Ph.D.</td>
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<tr>
<td>Classical Archaeology</td>
<td>M.A., Ph.D.</td>
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<tr>
<td>Classics</td>
<td>M.A., Ph.D.</td>
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<tr>
<td>Classics</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>Comparative Biochemistry</td>
<td>Ph.D.</td>
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<tr>
<td>Comparative Literature</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>Computer Science</td>
<td>M.S., Ph.D.</td>
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<tr>
<td>Demography</td>
<td>M.A., Ph.D.</td>
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<tr>
<td>Design</td>
<td>(Visual), M.A.</td>
</tr>
<tr>
<td>Earth and Planetary Science</td>
<td>M.A., M.S., Ph.D.</td>
</tr>
<tr>
<td>East Asian Languages and Cultures</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>Economics</td>
<td>M.A., Ph.D.</td>
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<tr>
<td>Education</td>
<td>Teaching Credential, M.A., Ph.D., Ed.D.</td>
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<tr>
<td>Endocrinology</td>
<td>M.A., Ph.D.</td>
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<tr>
<td>Energy and Resources</td>
<td>M.A., M.S., Ph.D.</td>
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<tr>
<td>Engineering and Engineering Science</td>
<td>Civil and Environmental Engineering, Electrical</td>
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<td></td>
<td>Engineering and Computer Sciences, Industrial</td>
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<td></td>
<td>Engineering and Operations Research, Materials</td>
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<td></td>
<td>Science and Engineering, Mechanical Engineering,</td>
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<td></td>
<td>Nuclear Engineering</td>
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<tr>
<td>English</td>
<td>M.A., Ph.D.</td>
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<tr>
<td>Environmental Health Sciences</td>
<td>M.S., Ph.D.</td>
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<tr>
<td>Environmental Science, Policy, and Management</td>
<td>M.S., Ph.D.</td>
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<tr>
<td>Epidemiology</td>
<td>M.S., Ph.D.</td>
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<tr>
<td>Ethnic Studies</td>
<td>M.A., Ph.D.</td>
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<tr>
<td>Folklore</td>
<td>M.A.†</td>
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<tr>
<td>Forestry</td>
<td>M.F.</td>
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<tr>
<td>French</td>
<td>M.A., Ph.D.</td>
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<tr>
<td>Geography</td>
<td>Ph.D.</td>
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<tr>
<td>Geology (see Earth and Planetary Science)</td>
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<tr>
<td>Geophysics (see Earth and Planetary Science)</td>
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<tr>
<td>German</td>
<td>M.A., Ph.D.</td>
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<tr>
<td>Greek (see Classics)</td>
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<tr>
<td>Health and Medical Sciences</td>
<td>M.S. (UCB-UCSF Joint Medical Program)†</td>
</tr>
<tr>
<td>Health Services and Policy Analysis</td>
<td>Ph.D.†</td>
</tr>
<tr>
<td>Hispanic Languages and Literatures</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>History</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>History of Art</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>Infectious Diseases and Immunity</td>
<td>Ph.D.†</td>
</tr>
<tr>
<td>Information Management and Systems</td>
<td>M.I.M.S., Ph.D.</td>
</tr>
<tr>
<td>Integrative Biology</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>Italian Studies</td>
<td>M.A., Ph.D.</td>
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<tr>
<td>Japanese Language</td>
<td>(see East Asian Languages and Cultures)</td>
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<tr>
<td>Jewish Studies</td>
<td>Ph.D.† (joint degree program with Graduate</td>
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<tr>
<td></td>
<td>Theological Union)</td>
</tr>
<tr>
<td>Journalism</td>
<td>M.J.</td>
</tr>
<tr>
<td>Jurisprudence and Social Policy</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>Landscape Architecture</td>
<td>M.L.A.</td>
</tr>
<tr>
<td>Landscape Architecture and Environmental</td>
<td>Planning, Ph.D.</td>
</tr>
<tr>
<td>Latin (see Classics)</td>
<td>M.A.†</td>
</tr>
<tr>
<td>Latin American Studies</td>
<td>Law, J.D., LL.M., J.S.D.</td>
</tr>
<tr>
<td>Linguistics</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>Logic and the Methodology of Science</td>
<td>Ph.D.†</td>
</tr>
<tr>
<td>Mathematics</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>Medical Anthropology</td>
<td>Ph.D. (joint degree program with UC San Francisco)</td>
</tr>
<tr>
<td>Microbiology</td>
<td>M.S., Ph.D.</td>
</tr>
<tr>
<td>Molecular and Biochemical Nutrition</td>
<td>M.A., Ph.D.</td>
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<tr>
<td>Molecular and Cell Biology</td>
<td>M.A., Ph.D.</td>
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<tr>
<td>Molecular Toxicology</td>
<td>M.S., Ph.D.</td>
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<tr>
<td>Music</td>
<td>M.A., Ph.D.</td>
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<tr>
<td>Near Eastern Religions</td>
<td>Ph.D.† (joint degree program with the Graduate</td>
</tr>
<tr>
<td></td>
<td>Theological Union)</td>
</tr>
<tr>
<td>Near Eastern Studies</td>
<td>M.A., Ph.D.</td>
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<tr>
<td>Neuroscience</td>
<td>Ph.D.†</td>
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<tr>
<td>Optometry</td>
<td>O.D. (Residency Program, Cert.)</td>
</tr>
<tr>
<td>Performance Studies</td>
<td>M.A., Ph.D.</td>
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<tr>
<td>Philosophy</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>Physics</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>Plant Biology</td>
<td>M.S., Ph.D.</td>
</tr>
<tr>
<td>Political Science</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>Psychology</td>
<td>M.A., Ph.D.</td>
</tr>
<tr>
<td>Public Health</td>
<td>M.P.H., Dr.P.H.</td>
</tr>
<tr>
<td>Public Policy</td>
<td>M.P.P., Ph.D.</td>
</tr>
<tr>
<td>Range Management</td>
<td>M.S.†</td>
</tr>
<tr>
<td>Rhetoric</td>
<td>M.A., Ph.D.</td>
</tr>
</tbody>
</table>

*Students may not apply for the M.A./M.S. degree only, although it may be awarded to students pursuing work toward the Ph.D. degree after fulfillment of the appropriate M.A./M.S. requirements.

†Indicates established interdisciplinary group or field.

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1980: Czesław Miłosz (deceased), professor of Slavic languages and literature, wins Nobel Prize for literature.

1983: Gerard Debreu (deceased), professor of economics and mathematics, wins Nobel Prize for economics.

1986: Yuan T. Lee,* professor emeritus of chemistry, wins Nobel Prize for chemistry.

1994: John Harsanyi (deceased), professor emeritus of business administration and economics, is one of three professors awarded the Nobel Prize in economics.


2000: Daniel L. McFadden, professor of economics, is one of two professors awarded the Nobel Prize in economics.

2001: George Akerlof, professor of economics, is one of three professors awarded the Nobel Prize in economics.

2006: George Smoot, professor of physics is awarded the Nobel Prize in physics, sharing it with John C. Mather* of NASA, who earned his Ph.D. at Berkeley in 1974.

*Indicates recipient earned a graduate degree at UC Berkeley.
Noted Alumni

James H. Budd, 1873
Governor of California, 1895-99. Strong supporter of 1897 bill in state legislature that doubled the state’s financial commitment to UC, from one cent to two cents per $100 of taxable property in the state.

Jacob Reinstein, 1873
UC regent, served on jury for campus architectural plan sponsored by Phoebe Apperson Hearst, instrumental in successful effort to increase state allocations to UC in 1897.

George Edwards, 1873
Professor of mathematics, 1874-1918; Edwards Field and Stadium named after “Colonel” Edwards.

Rosa Letitia Scrivner, 1874
First female graduate, only female member of the class; committee of Scrivner and eight women in Class of 1876 selected colors blue and gold for the University.

Josiah Royce, 1875
Eminent philosopher, professor at Harvard, California historian; Royce Hall at UCLA named in his honor.

Florence Prag, 1887
Described in Blue and Gold yearbook as “guileless and inexperienced”; later, as Florence Prag Kahn, served as U.S. Representative from California.

Franklin Lane, 1887
U.S. Secretary of the Interior, 1913-20.

Stephen Mather, 1887

(continued on next page)

Romance Languages and Literatures, Ph.D. Emphases:
  French, Italian, Spanish†
Scandinavian Languages and Literatures, M.A.,* Ph.D.
Science and Mathematics Education, Ph.D.†
Slavic Languages and Literatures, M.A.,* Ph.D.
Social Welfare, M.S.W., Ph.D.
Sociology, M.A.,* Ph.D.
Sociology and Demography, Ph.D.†
South and Southeast Asian Studies, M.A., Ph.D.
Special Education, Ph.D. (joint degree program with San Francisco State University)
Statistics, M.A., Ph.D.
Urban Design, M.U.D.†
Vision Science, M.S., Ph.D.†

Certificate of Completion of Residency Program in Optometry

The School of Optometry offers an Optometric Residency Program leading to the Certificate of Completion. This is a 12-month program of graduate professional training in an optometric specialty area selected by the residents, and is designed to expand and refine their professional and specialty skills. The prerequisite for entrance is a Doctor of Optometry degree. For information, contact Inez Bailey at the Optometric Residency Program, 230 Minor Hall, School of Optometry, University of California, Berkeley; Berkeley, CA 94720-2020 or e-mail inezb@berkeley.edu.

Concurrent Degree Programs

Concurrent degree programs provide a broad integrated curriculum in which units are shared between two disciplines. You should direct inquiries to the departments or schools involved.

Architecture, M.Arch.—City and Regional Planning, M.C.P.
Architecture, M.Arch.—Civil and Environmental Engineering, M.S.
Architecture, M.Arch.—Landscape Architecture, M.L.A.
Asian Studies, M.A.—Law, J.D.
Business Administration, M.B.A.—Law, J.D.
(Berkeley)
Business Administration, M.B.A.—Law, J.D.
(Hastings)
Business Administration, M.B.A.—Public Health, M.P.H.
City and Regional Planning, M.C.P.—Civil and Environmental Engineering, M.S.
City and Regional Planning, M.C.P.—Law, J.D.
(Berkeley)
City and Regional Planning, M.C.P.—Law, J.D.
(Hastings)

City and Regional Planning, M.C.P.—Public Health, M.P.H.
Economics, M.A./Ph.D.—Law, J.D.
Journalism, M.J.—Asian Studies, M.A.
Journalism, M.J.—Latin American Studies, M.A.
Journalism, M.J.—Law, J.D.
Landscape Architecture, M.L.A.—Architecture, M.Arch.
Landscape Architecture, M.L.A.—City and Regional Planning, M.C.P.
Public Health, M.P.H.—School of Medicine, UC San Francisco (M.D.)
Public Policy, M.P.P.—Engineering, M.S. (Civil and Environmental Engineering, Electrical Engineering and Computer Sciences, Industrial Engineering and Operations Research, Materials Science and Engineering, Mechanical Engineering, Nuclear Engineering)
Public Policy, M.P.P.—Law, J.D.
Public Policy, M.P.P.—Public Health, M.P.H.
Social Welfare, M.S.W.—Law, J.D.
Social Welfare, M.S.W.—Public Health, M.P.H.

International and Area Studies

The Graduate Group in International and Area Studies (IAS) offers M.A. degrees in conjunction with graduate degree programs in professional schools and Ph.D. programs in the social science disciplines. Only current graduate students may apply. No freestanding degree in IAS is offered.

Designated Emphasis

The designated emphasis is an approved focus representing a new method of inquiry or an important field of application that is relevant to two or more existing doctoral degree programs. The designated emphasis is designed to complement existing Ph.D. programs, and it provides opportunities for interdisciplinary study with faculty from other departments. It is not in itself a degree program. For a list of current designated emphases, see page 63.

Teaching Credentials

Courses leading to the multiple subject or single subject teaching credentials are offered on the Berkeley campus. For details, please consult the Graduate School of Education web site at gse.berkeley.edu.

*Students may not apply for the M.A./M.S. degree only, although it may be awarded to students pursuing work toward the Ph.D. degree after fulfillment of the appropriate M.A./M.S. requirements.
†Indicates established interdisciplinary group or field.
Requirements for Graduate Degrees

The Master's Degree

Berkeley offers instruction leading to both academic and professional degrees. For specific regulations governing the professional master's degrees, contact the individual colleges and schools. This section will deal primarily with the academic master's degree.

Academic Residence Requirement

A minimum of two semesters of academic residence is required for the master's degree. Academic residence is defined as enrollment in at least 4 units in 100–200 series courses.

Transfer of Credit from Other Institutions

To request a transfer of units, ask your graduate adviser to make a formal request to the Dean of the Graduate Division specifying the units and courses involved. Work that formed part of the program for a master's degree previously conferred (either at the University of California or elsewhere) may not be applied toward a current degree program.

Credit for graduate work that you completed on other campuses of the University of California may be granted in excess of 4 semester units or 6 quarter units. Requests to the graduate dean may be made at the time of advancement to candidacy.

A maximum of 4 semester or 6 quarter units completed in graduate status at an institution outside the University of California system may be transferable, and the work must have been completed previously in graduate status at an institution of high standing. The units transferred cannot be used to reduce the minimum required in the 200-series courses or the minimum residence requirement.

Concurrent Enrollment—UC Berkeley Extension

Courses taken concurrently through UC Berkeley Extension but held on the Berkeley campus under the instruction of a regular member of the Berkeley faculty are generally not applicable toward a Berkeley master's degree.* These courses are intended to provide Extension students with an opportunity to take courses that would not ordinarily be available to them. Concurrent enrollment cannot replace normal registration by Berkeley graduate students, nor may it be used to accumulate credit toward a Berkeley degree by an individual not formally admitted to graduate standing at Berkeley.

Academic Master's Degree Plans

If you work toward an academic master's degree on the Berkeley campus, you will pursue one of two plans, as determined by your school, department, or group. (Units may be applied either or both plans and will, in the latter case, designate which plan you are to follow.)

Plan I requires at least 20 semester units of upper division and graduate courses and a thesis. At least 8 of these units must be in graduate courses (200 series) in your major subject. Course units are not granted for the thesis.

Plan II requires at least 24 semester units of upper division and graduate courses, followed by a comprehensive final examination administered by your school, department, or group. At least 12 of the units must be in graduate courses in your major subject.

Note: Departments, schools, and groups may have performance standards that are higher than the minimum B average required by the Graduate Division. Further requirements are specified by the major department.

Advancement to Candidacy

When you complete the requirements for your degree, you will not automatically be admitted to candidacy for the master's degree; you must make a formal application to the dean of the Graduate Division no later than the end of the fifth week of the semester in which your degree will be awarded. The application must be approved by the head graduate adviser in your major school, department, or group and must include a precise statement of the studies on which the application is based. If you are to submit a thesis, however, you should consult your adviser as early as possible about advancement to candidacy so that the appropriate committee can be formed. You will not receive the degree unless you have been advanced to candidacy. The Graduate Division will also not accept a thesis that involves human or animal subjects without official evidence of an approved protocol number from the appropriate committee.

Use of human subjects or animal subjects: If the research for a master's thesis involves the use of human subjects, the student is required to have an approved protocol from the Committee for Protection of Human Subjects (see cphs.berkeley.edu) before beginning any research. Students using human subjects also must complete the “Course in the Protection of Human Subjects” (referred to as the CITI course), which is available online at citiprogram.org, and print out the certificate of completion. The certificate of completion must be submitted with the advancement form.

* However, “XB” courses taken at Extension (from fall 2005 on) are transferable to Berkeley transcripts but do not count toward residence requirements.

(continued on next page)
The Doctoral Degree

Berkeley offers both academic and professional degrees. Professional degree programs are outlined by the colleges and schools offering them. The general procedures given in this section apply primarily to the academic doctoral degree.

The Doctor of Philosophy degree is awarded in recognition of a student’s knowledge of a broad field of learning and for distinguished accomplishment in that field through an original contribution of significant knowledge and ideas. The student’s research must reveal high critical ability and powers of imagination and synthesis.

Programs of Study

Programs of study for doctoral degrees are more individualized than those for master’s degrees, permitting more specialization within a field or the establishment of connections among fields. Nevertheless, if you are seeking a doctoral degree, you must have your program of study approved by the graduate adviser of the department.

Your major department will offer the majority of your coursework but often recommends that you enroll in courses offered by other units that are related to your field(s) of interest. You should confer with your graduate adviser to select the sequence of courses that will best prepare you for the qualifying examinations and your proposed research work.

Academic Residence Requirement

A minimum of two years or four semesters of academic residence is required for the Ph.D. degree. For a joint doctoral degree, a minimum of one year of academic residence is required at each campus. Academic residence is defined as enrollment in at least 4 units in 100-200 courses. The period during which you are allowed to be in candidacy is limited; after its expiration your candidacy for the degree will lapse. You should consult your department or the Graduate Division for the time permitted in candidacy for your major.

Foreign Language Requirement

Your program may have a foreign language requirement which ensures that you have the ability to acquire wide knowledge in your field of study and to keep up with foreign developments in your field. You are urged to complete the foreign language requirement early in your graduate career. You must fulfill the foreign language requirement before admission to the qualifying examinations and advancement to candidacy. If you are a prospective student, you are urged to inquire about the foreign language requirement as soon as possible and, if you can, to fulfill it while still an undergraduate. In some graduate programs, applicants for admission must have satisfied the foreign language requirement before applying.
Qualifying Examinations
Before you are admitted to candidacy, you must pass a qualifying examination administered by a four- or five-member committee approved by the Graduate Council. This oral exam is required. You must be registered in the semester in which you take the examination. To be eligible to apply to take the qualifying exam, you must have removed any previous deficiencies in training, including incomplete grades in courses that your graduate adviser required for your program. You must have at least a B average in all coursework you undertook in graduate status, and you must have fulfilled any language requirement(s).

Note: Departments, schools, and groups may have performance standards that are higher than the minimum B average required by the Graduate Division. They may also require passage of preliminary examinations before a student is eligible to apply for the qualifying examination.

Advancement to Candidacy
You must apply for advancement to candidacy, on a form furnished by the Graduate Division, no later than the semester following the one in which you passed your qualifying examination. For students whose majors are eligible for the Dean’s Normative Time Fellowship Program, applications for advancement to candidacy must be submitted by the deadline for this program: the last workday of the fall semester for a fall advancement and June 30 for a spring advancement. The completed form, to be filed with Graduate Services: Degrees, 318 Sproul Hall, is available from the Graduate Division web site. It must bear the endorsement of the head graduate adviser and dissertation chair. Payment of a $90 fee is required when you file the application, and you must have completed all doctoral degree requirements except the dissertation before you may be advanced to candidacy.

Reduced Nonresident Tuition
For graduate students who have been advanced to candidacy for the doctorate, the annual nonresident tuition fee is reduced by 100 percent, subject to the understanding that: (a) graduate doctoral students may receive the reduced nonresident tuition rate for a maximum calendar period of three years; and (b) all such students who continue to be enrolled or who re-enroll after the three-year period will be charged the full nonresident tuition rate that is in effect at that time.

Normative Time-Doctoral Students
Normative Time is the elapsed time (calculated to the nearest semester) that students would need to complete all requirements for the doctorate, assuming they are engaged in full-time study and making satisfactory progress toward their degrees. Normative times for doctoral programs have been recommended by department faculty and approved by the Graduate Council. Normative Time has two components: (1) time from the beginning of the student’s graduate work to advancement to doctoral candidacy; and (2) time in candidacy until the dissertation is filed. Most departments at Berkeley have total normative times of five to six years (10 to 12 semesters).

Calculation of Normative Time in Candidacy
The Graduate Division computes a student’s time in candidacy from the semester following the one in which the student has formally been advanced to candidacy, not simply the semester following the Qualifying Exam. Delays in applying for advancement to candidacy limit the student’s actual time as a candidate and may jeopardize his or her full eligibility for the Dean’s Normative Time Fellowship, if in a qualified major.

The Dean’s Normative Time Fellowship (DNTF)
The Dean’s Normative Time Fellowship provides an incentive for students in participating programs to advance to candidacy within normative time to advancement and to graduate by the expiration of their major’s normative time in candidacy. For eligibility information, fellowship amounts, and a list of departments and graduate groups that participate in the program and fellowship amounts, see grad.berkeley.edu/policies/dntf.shtml.

The Candidate’s Degree
The degree “Candidate in Philosophy,” which gives formal recognition to a definite state of progress toward the doctorate, may be awarded when you are advanced to candidacy for the Ph.D. degree. The list of graduate degree programs that award the “Candidate in Philosophy” degree is available from Graduate Services: Degrees, 318 Sproul Hall.

Annual Review of Doctoral Candidates
The Graduate Council requires all doctoral students who have been advanced to candidacy to meet annually with at least two members of their dissertation committees to discuss progress during the last year and to set goals for the next. Students who are away from campus may complete the evaluation by mail but must schedule a meeting with committee members to discuss the progress made or needed upon return. Departments may use their own form or one developed by the Graduate Division for this purpose. A copy of the evaluation must be forwarded to the Graduate Division, 318 Sproul Hall.

The Doctoral Dissertation
The dissertation, the product of independent investigation under faculty supervision, is the most important requirement for the doctoral program; the degree is never granted for completion of coursework only, no matter how extensive. The dissertation must be submitted to the committee in charge (see below) and must receive its approval. The dissertation must be filed according to the “Instructions for Preparing and Filing Your Thesis or Dissertation” at grad.berkeley.edu/policies/pdf/disguide.pdf.

(continued on next page)
You are to work under one of two plans, as adopted by the department, school, or group:

Plan A—On behalf of the Graduate Council, the Graduate Division appoints a committee of five Academic Senate members which determines whether you have met the requirements for the degree. Three members of the committee, one of whom must be from a department other than that of your major subject, guide you in research and judge the merits of your dissertation. The entire committee conducts a final oral examination dealing with the relationship between your dissertation and the general field of study in which the subject of the dissertation lies. Admission to the final oral examination may be restricted to the members of the committee, members of the Academic Senate, and guests of equivalent rank from other institutions.

Plan B—On behalf of the Graduate Council, the Graduate Division appoints a committee of three Academic Senate members, one of whom must be from a department other than that of your major subject, to guide you in research and judge the merits of your dissertation. This committee may require any necessary conferences to elucidate the subject treated in the dissertation. After presentation of the dissertation but before final action is taken upon it, the committee may, if necessary, require you to defend the dissertation in a formal oral examination.

After your committee has approved your dissertation, you will file your manuscript with the Graduate Division (318 Sproul Hall) according to “Instructions for Preparing and Filing Your Thesis or Dissertation” and the deadline specified for the semester by which you wish to receive your degree. At the same time, you must also file an abstract of the dissertation signed by the committee chair.

See the “Master’s Thesis” section for procedures to be followed if committee members disagree about the acceptability of your dissertation.

Programs using Plan A and Plan B are listed below.

Plan A
- Buddhist Studies
- Interdisciplinary Program
- Logic and the Methodology of Science
- Near Eastern Religions

Plan B
- All other programs not listed above

Minimum Requirements
All the procedures and regulations described above and in the preceding section on master’s degrees constitute the minimum requirements for higher degrees, as set by the Graduate Division. Each academic unit may adopt additional requirements, as approved by the dean of the Graduate Division and the Graduate Council, according to the demands of its field of study.

Academic Opportunities

Exchange Programs
Berkeley students participating in any of the following exchange programs, with the exception of the Intercampus Exchange Program, will not automatically receive credit for taking coursework at the host campus. The courses will be posted in the memorandum column of your transcript. If you want to transfer units, see page 57, “Transfer of Credit from Other Institutions.” No more than 4 semester or 6 quarter units are transferable toward the master’s degree only.

Intercampus Exchange Program
If you are a graduate student registered on any campus of the University of California, you may go to another campus of the University as an Intercampus Exchange Graduate Student with the approval of your head graduate adviser, the chair of the department in which you want to study, the Graduate Division on the home campus, and the Graduate Division on the host campus.

You may obtain an application for the Intercampus Exchange Program for Graduate Students from the Graduate Division (318 SproulHall) or the Graduate Division on your home campus. You should complete and file the application form at least three weeks before the opening of the term of enrollment on the host campus. (Please note that all other UC campuses except UC Merced are on the quarter system.)

This privilege is available to graduate students who would like to associate with scholars or fields of study not available on the home campus, or who seek the use of special facilities and collections. Whenever possible, you should make personal arrangements with faculty members on both campuses to ensure that the courses, seminars, or facilities will be available to meet your needs. This privilege will be granted where there is evidence of serious and high-quality scholarship.

As an intercampus exchange student, you register and pay fees on your home campus but have library, health services, and other student privileges on your host campus. Note: You should make arrangements with the Office of the Registrar to follow the enrollment procedure of the host campus so that the grades you obtain in courses taken on the host campus will be transferred to your record on the home campus. Exchange students are considered graduate students in residence on the home campus and are not formally admitted to the host graduate school and department. Unless specifically restricted, fellowship recipients may participate in the Intercampus Exchange Program.
Stanford-Berkeley Exchange Program
If you have a superior academic record, you may participate in the Stanford-Berkeley Exchange Program when it is considered desirable for you to take a limited number of courses that are offered at Stanford but not at Berkeley. Participation in the program must be approved by the Graduate Division and your department. Normally, you will not be allowed to participate in this program until you have completed a year of graduate study at Berkeley. Participants register and pay the applicable fees at Berkeley and are exempt from tuition and fees at Stanford. The same privilege is accorded to Stanford students who want to take courses at Berkeley. If you apply for this program, you must enroll in at least one course at Berkeley. You may obtain further information and an application form from Graduate Services: Degrees, 318 Sproul Hall.

The Exchange Scholar Program
The Exchange Scholar Program is designed to enable doctoral students with superior academic records to study at one of the participating institutions to take advantage of educational opportunities that are not available at Berkeley. Normally, you are eligible to become an exchange scholar only after you have completed one year in a Berkeley graduate degree program. You may take courses or conduct research with particular faculty at the host institution for no more than one year while remaining registered at Berkeley.

Participating institutions are Berkeley, Brown University, University of Chicago, Columbia University, Cornell University, Harvard University, Massachusetts Institute of Technology, University of Pennsylvania, Princeton University, Stanford University, and Yale University. You may obtain further information and an application from Graduate Services: Degrees, 318 Sproul Hall.

Cross-Registration Agreements with CSU and other institutions
Berkeley has cross-registration agreements with the Graduate Theological Union; Mills College; Holy Names University; John F. Kennedy University; Dominican University; and St. Mary’s College. In addition to these established exchanges, any UC Berkeley student can attend a class each semester at any one of the campuses of the California State University.

With the approval of the Graduate Division and your department, you may register and pay applicable fees at Berkeley and be exempt from tuition and fees at the host campus, except for an administrative fee, depending on the institution. Note: You may enroll for only one host-campus course per semester. Cross-registration applications are available from Graduate Services: Degrees, 318 Sproul Hall.

Studying Abroad
Graduate students may participate in the University of California Education Abroad Program (EAP). EAP offers a diverse range of programs, most of which are available to graduate students, in more than 30 countries. Several of the programs do not require foreign language proficiency for participation. Approval from your department and from the Graduate Division is required. For further information, contact the office of Berkeley Programs for Study Abroad, 160 Stephens Hall #2302, University of California, Berkeley, CA 94720-2302, (510) 642-1356; e-mail: eapucb@berkeley.edu; web site: studyabroad.berkeley.edu.

Interdisciplinary Graduate Groups
Berkeley has established graduate programs in a number of fields that cut across conventional departmental lines yet comprise distinct cores of knowledge. These programs are administered by groups of faculty from several related departments and, in certain instances, from other campuses. If you are enrolled in these programs you can work with any faculty member in the group without having to pursue the particular discipline of the department with which the faculty member is associated. Moreover, this arrangement often gives you access to a range of facilities not ordinarily open to students enrolled in departmental programs, although groups have no facilities of their own.
Following is a current list of graduate groups on the Berkeley campus:

**Group in Ancient History and Mediterranean Archaeology**
(510) 643-8741
ls.berkeley.edu/dept/ahma

**Group in Applied Science and Technology**
(510) 642-8790
coe.berkeley.edu/ast

**Group in Asian Studies**
(510) 642-0333
ieas.berkeley.edu/gas

**Group in Bioengineering**
(joint degree with UCSF)
(510) 642-5833
bioeng.berkeley.edu/gradhome.php

**Group in Biophysics**
(510) 642-0379
biophysics.berkeley.edu

**Group in Biostatistics**
(510) 642-3241
stat.berkeley.edu/biostat

**Group in Buddhist Studies**
(510) 642-3480
buddhiststudies.berkeley.edu

**Group in Comparative Biochemistry**
(510) 642-2863
cmpbiochem.berkeley.edu

**Group in Endocrinology**
(510) 643-7330
endo.berkeley.edu

**Group in Energy and Resources**
(510) 642-1640
erg.berkeley.edu/index.shtml

**Group in Environmental Health Sciences**
(510) 643-5160
ehs.sph.berkeley.edu

**Group in Epidemiology**
(510) 643-9912
epi.berkeley.edu/Programs.htm

**Group in Ethnic Studies**
(510) 643-0796
ethnicstudies.berkeley.edu/graduate

**Group in Folklore**
(510) 643-7934
ls.berkeley.edu/dept/folklore/graduate.html

**Group in Health and Medical Sciences**
(joint medical program with UCSF)
(510) 642-5479
jmp.berkeley.edu

**Group in Health Services and Policy Analysis**
(510) 643-8571
hspa.berkeley.edu

**Group in Infectious Diseases and Immunity**
(510) 642-9189
microbe.berkeley.edu/idgroup

**Group in Jewish Studies**
(joint degree with GTU)
(510) 643-2995
jewishstudies.berkeley.edu/phd.html

**Group in Latin American Studies**
(510) 642-4466
clas.berkeley.edu/Academics/graduate

**Group in Logic and the Methodology of Science**
(510) 642-0665
logic.berkeley.edu

**Group in Medieval Studies**
(510) 642-4218
ls.berkeley.edu/dept/medieval

**Group in Microbiology**
icelab@berkeley.edu
pmb.berkeley.edu/~ggm/microbe

**Group in Molecular and Biochemical Nutrition**
(510) 642-2863
nst.berkeley.edu/mbn.html

**Group in Molecular Toxicology**
nst.berkeley.edu/moltox.html

**Group in Near Eastern Religions**
(joint degree with GTU)
(510) 642-6162
gtu.edu/admissions/doctoral-programs/ph-d-th-d-areas-of-study-1/near-eastern-religions

**Group in Neuroscience**
(510) 642-8915
neuroscience.berkeley.edu/grad/home

**Group in Performance Studies**
(510) 642-1677
theater.berkeley.edu/GraduateProgram/index-grad.html

**Group in Range Management**
(510) 642-6410
espm.berkeley.edu/gradprograms/grad_programs_msr.php

**Group in Science and Mathematics Education**
(510) 642-0748
www-gse.berkeley.edu/program/sesame/sesame.html

**Group in Sociology and Demography**
(510) 642-9800
demog.berkeley.edu/acadprograms/socdemog.html

**Group in Urban Design**
(510) 642-2965
mud.ced.berkeley.edu

**Group in Vision Science**
(510) 642-9804
vision.berkeley.edu/vsp/content/programs/graduateprogram.html
Designated Emphasis Groups

Graduate Education

Group in Communication, Computation, and Statistics
c/o Electrical Engineering and Computer Sciences
(510) 643-8347
eecs.berkeley.edu/CCS

Group in Computational and Genomic Biology
c/o QB3 Institute
(510) 666-3342
computationalbiology.berkeley.edu

Group in Critical Theory
(510) 642-5510
criticaltheory.berkeley.edu

Group in Energy Science and Technology
vcarey@me.berkeley.edu
me.berkeley.edu/deest

Group in Film Studies
c/o Film Studies
(510) 642-3522
filmstudies.berkeley.edu/des_emphasis.html

Group in Nanoscale Science and Engineering
(510) 643-6681
nano.berkeley.edu/educational/DEGradGroup.html

Group in New Media
c/o Center for New Media
(510) 642-0635
benm.berkeley.edu/academics/degrees

Group in Women, Gender, and Sexuality
c/o Gender and Women’s Studies
(510) 642-8513
womensstudies.berkeley.edu/dewgs.html

Individual Doctoral Programs

To allow you to work in a field that, in its breadth, falls between that of a department and an interdisciplinary group, the Graduate Division permits the informal establishment of ad hoc programs leading to the Ph.D. degree. Note: You will be considered for an interdisciplinary program only if you have completed at least two semesters of graduate study in a doctoral program on this campus and have shown superior academic performance in your graduate studies here. To apply for an individual major, you must prepare a proposal for a course of study under the sponsorship of five faculty members. Final approval of every individual graduate program and admission of each student into such a program must be granted by the Graduate Council. You must complete degree requirements in accordance with Plan A of the Graduate Council policies, and the degree is awarded in a field that the council approves for you. For more information, contact Graduate Services: Degrees, 318 Sproul Hall, (510) 642-7330.

Teaching and Research Appointments

Many departments make graduate student instructorships available to qualified graduate students, and departments, centers, and institutes often seek qualified graduate students for research appointments. For specific information see the section “Fees and Financial Aid,” beginning on page 65.
Internships

A number of internships are available to graduate as well as undergraduate students. For information see “Research and Internships” on page 46.

Further Information on Rules and Academic Policies

For more exhaustive coverage, see the Graduate Division web page for current students (grad.berkeley.edu/current/index.shtml) and the Guide to Graduate Policy (grad.berkeley.edu/policies/ggp/ggp.pdf). An overview is available under “Academic Policies,” beginning on page 73. However, since policies can change, the Graduate Division web site should be relied upon rather than this catalog.

Probation and Dismissal—Graduate Students

Graduate students are subject to probation and dismissal for academic deficiencies at the discretion of the dean of the Graduate Division under the policies established by the Graduate Council of the Academic Senate. Probation may be initiated by the dean of the Graduate Division or by recommendation of the head graduate adviser of your major. The most common reasons for probation are a low GPA, written work of substandard quality in courses central to your program of study, or failure to make adequate progress toward the degree. You may appeal dismissal from graduate standing. The Graduate Appeal Procedure is available on the Graduate Division web site at grad.berkeley.edu/policies/pdf/gradappeal.pdf or from Graduate Services: Degrees, 318 Sproul Hall. The procedure may not be used for complaints regarding actions based solely on faculty evaluation of the academic quality of a student’s performance, or decanal evaluations of a student’s appropriate academic progress, unless the complaint alleges that the actions may have been influenced by non-academic criteria.

Visiting Scholar and Postdoc Affairs Program

Berkeley is host to more than 2,400 visitors from other universities, colleges, research laboratories, and government agencies who conduct research using University facilities. For information about the Visiting Scholar and Postdoc Affairs (VSPA) program, see the “Appendix” in this catalog or the VSPA web site at vspa.berkeley.edu.
Fees and Financial Aid

Theaters and studios all across the Berkeley campus burst with the energy of students in the performing arts. Exploring material and modes from every era and every corner of the globe, students are actors, designers, directors, choreographers, dancers, musicians, and performance artists of all stripes. They pursue these arts as fields of study, avenues of self-expression, and opportunities to engage with an appreciative public.
Financial Aid
2007-08

Undergraduates receiving financial aid: 72%
Percent of financial aid that is need-based: 65%
Average amount awarded: $14,149
Undergraduates in College Work-Study Program: 12%
Undergraduates working part-time on campus: (not work-study): 29%

*Except for the need-based information and on-campus work, data is directly from the UC Berkeley Office of Financial Aid. The remainder is from the 2007-2008 Office of the President Financial Aid Inventories
**Academic year only

Fees and Financial Aid

It is very important that you carefully consider the total financing of your education, from your first term at Berkeley to completing your degree objective. If financial help will be needed beyond funds that you or your family are able to provide, you should make the necessary applications for financial assistance well in advance of enrollment. You should pay particular attention to early deadlines for application for grants, scholarships, Federal Work-Study, Federal Perkins, and Federal Direct Stafford/Ford Loans. While the needs and resources of each student differ, the University can provide a general list of fees and expenses normally encountered. Note: Fees are subject to change without notice.

Part of your fees may be refunded if you cancel your registration before the opening day of the semester or withdraw before the beginning of the sixth week of classes of any semester. (See page 79-80 for schedules of prorated fees.)

Total Expenses—The cost of attending the University varies according to individual circumstances. The expenses listed below are approximate costs for the nine-month academic year and should be used only as a guideline.

Required Fees

The fees in this section are those in effect for the spring 2009 semester. At press time, fees for future semesters had not been determined. Please go to the Office of the Registrar’s web site at registrar.berkeley.edu. All fees are subject to change.

University Registration Fee—$432 per semester. This fee is paid by all students and covers normal expected usage of facilities such as laboratories and gymnasiums (except for instructional programs associated with these facilities) and services such as counseling, placement, and health.

Educational Fee—This fee is paid by undergraduate California residents at $3,131 per semester, by California resident graduate students at $3,561 per semester, by non-California resident undergraduates at $3,424 per semester, and non-California resident graduate students at $3,717 per semester. A portion of this fee may be temporary. The educational fee is used to support a portion of the student services costs of the educational program, such as financial aid, social and cultural activities, Admissions and Registrar operations, counseling and career guidance, student affirmative action, and academic tutoring. In exceptional circumstances the educational fee may be reduced by one-half for part-time undergraduate students. Approval of part-time undergraduate study is made only in exceptional cases and is based on considerations of occupation, family responsibility, and health. Applications must be approved by the appropriate dean before the start of each term. A fee reduction will be made only if you enroll in no more than two courses.

Berkeley Campus Fee—This fee is paid by all students in the amount of $207.75 per semester. It provides support for a wide range of activities sponsored by the ASUC, including work with academic and administrative units of the campus. It covers use of the Student Union, helps pay construction costs of the Union building, and assists with the provision of ethnic studies on the Berkeley campus.

Class Pass Transit Fee—This fee, required of all students, gives students unlimited transportation on the local bus system (AC Transit) for $57 per semester.

UC Berkeley Extension—Students enrolled in the UC Berkeley Extension Fall Program for Freshmen are assessed fees through the Office of the Registrar. For more information, contact the Office of the Registrar, (510) 642-5990.

Professional School Fees—Graduate students in the professional schools (Optometry, Business, Law, Public Health, and Public Policy) and the Health and Medical Sciences Joint Medical Program pay additional professional degree fees. These amounts are available from the individual schools and programs.

University Health Insurance Fee—Undergraduates, $638 per semester; graduate students, $849 per semester. All students attending the University of California, Berkeley must be covered by major medical health insurance. All students are therefore automatically enrolled in the University Major Medical Health Insurance Plan, which provides for specialized care and hospitalization and supplements campus care services provided by University Health Services (UHS) at the Tang Center. The cost for the plan is billed with registration fees each semester. Payment for both the fall and spring semesters provides major medical coverage for the entire calendar year, including summer. You may waive out of the University’s plan and not pay the fee if you can show proof of coverage comparable to the University’s plan. For more information, contact the Student Health Insurance Office, University Health Services, Tang Center, 2222 Bancroft Way, or call (510) 642-5700.

Nonresident Tuition—Undergraduates, $10,010.50 per semester; graduate academic students, $7,347 per semester; graduate professional students, $6,122.50 per semester. At the time of registration, you are classified as a resident or nonresident for tuition purposes. Only U.S. citizens and holders of immigrant visas can qualify for resident classification. Under California law you may be classified as a resident for tuition purposes if you have lived in California for more than one year immediately before

CAL Quiz
No. 15

Where did the marble “dog lions” or “foo dogs” outside Durant Hall originally stand, and where did they come from?

(Answer on page 524.)
STANDARD STUDENT BUDGETS 2007-08

The figures listed below were those in effect for the academic year 2007-08. Fees and estimates of expenses for subsequent years were not determined when this catalog went to press; for current information, call (510) 642-6442 or visit the Financial Aid and Scholarships office web site at financialaid.berkeley.edu.

### Undergraduate Residence Halls

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Room and Board (includes food, housing, and utilities)</td>
<td>$14,494</td>
</tr>
<tr>
<td>Books and Supplies</td>
<td>1,268</td>
</tr>
<tr>
<td>Personal Expenses</td>
<td>1,296</td>
</tr>
<tr>
<td>Transportation</td>
<td>396</td>
</tr>
<tr>
<td><strong>Total Living Expenses</strong></td>
<td><strong>17,654</strong></td>
</tr>
<tr>
<td>Fees (for two semesters)</td>
<td>7,656</td>
</tr>
<tr>
<td>Health Insurance</td>
<td>1,276</td>
</tr>
<tr>
<td><strong>Total Budget (for California resident)</strong></td>
<td><strong>$26,586</strong></td>
</tr>
</tbody>
</table>

### Undergraduate Off Campus

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Room and Board (includes housing and utilities)</td>
<td>$7,124</td>
</tr>
<tr>
<td>Food</td>
<td>2,404</td>
</tr>
<tr>
<td>Books and Supplies</td>
<td>1,268</td>
</tr>
<tr>
<td>Personal Expenses</td>
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</tr>
<tr>
<td>Transportation</td>
<td>1,002</td>
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<tr>
<td><strong>Total Living Expenses</strong></td>
<td><strong>$13,228</strong></td>
</tr>
<tr>
<td>Fees (for two semesters)</td>
<td>7,656</td>
</tr>
<tr>
<td>Health Insurance</td>
<td>1,276</td>
</tr>
<tr>
<td><strong>Total Budget (for California resident)</strong></td>
<td><strong>$22,160</strong></td>
</tr>
</tbody>
</table>

### Graduate Students (standard budget)

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Room and Board (includes food, housing, and utilities)</td>
<td>$15,370</td>
</tr>
<tr>
<td>Books and Supplies</td>
<td>1,040</td>
</tr>
<tr>
<td>Personal Expenses</td>
<td>2,338</td>
</tr>
<tr>
<td>Transportation</td>
<td>2,680</td>
</tr>
<tr>
<td><strong>Total Living Expenses</strong></td>
<td><strong>$21,428</strong></td>
</tr>
<tr>
<td>Fees (for two semesters)</td>
<td>8,516</td>
</tr>
<tr>
<td>Health Insurance</td>
<td>1,698</td>
</tr>
<tr>
<td><strong>Total Budget (for California resident)</strong></td>
<td><strong>$31,632</strong></td>
</tr>
</tbody>
</table>

### Undergraduate Commuter (lives with relatives)

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Room and Board (includes food, housing, and utilities)</td>
<td>$4,120</td>
</tr>
<tr>
<td>Books and Supplies</td>
<td>1,268</td>
</tr>
<tr>
<td>Personal Expenses</td>
<td>1,798</td>
</tr>
<tr>
<td>Transportation</td>
<td>1,890</td>
</tr>
<tr>
<td><strong>Total Living Expenses</strong></td>
<td><strong>$9,076</strong></td>
</tr>
<tr>
<td>Fees (for two semesters)</td>
<td>7,656</td>
</tr>
<tr>
<td>Health Insurance</td>
<td>1,276</td>
</tr>
<tr>
<td><strong>Total Budget (for California resident)</strong></td>
<td><strong>$18,008</strong></td>
</tr>
</tbody>
</table>

†Amount includes health insurance.
the day instruction begins at the last of the campuses to open for a semester. Residence is the combination of physical presence within California, intent to live in California permanently, plus demonstrated financial independence for the two years immediately preceding the request for residence classification. Nonresidents must pay a nonresident tuition fee each semester. For detailed information regarding the establishment of California residence, see the Appendix or write to the Legal Analyst, Residence Matters, 1111 Franklin St., 8th Floor, Oakland, CA 94607-5200.

**Additional Fees and Expenses**

**Late Registration Fee**—A $150 Late Registration Fee will be charged to all students who fail to become officially registered by the end of the third week of instruction each semester. To be officially “registered,” a student must: (1) be enrolled in at least one course, (2) pay at least 20% of assessed registration fees, and (3) have no active registration blocks.

**Late Fee Payment**—Payments must be received, not postmarked, by the deadline indicated on the Campus Accounts Receivable System (CARS) statement. All other delinquent accounts over $50 will be assessed penalties as follows:
- $20 on accounts one month past due; and
- $25 on accounts two months past due and monthly thereafter until the account is brought current.

**Returned Check Charges**—A processing charge of $50 is assessed when the bank returns a check for payment of registration fees. A processing charge of $20 is assessed for all other returned checks.

**Reinstatement after having been dropped from University rolls**—$10.

**Collection Costs**—Additional costs may be assessed on any defaulted debts requiring remedial collection activity. These costs may include applicable attorney’s fees.

**Cal Intercollegiate Athletics**—Student season tickets are available for purchase at CalBears.com for football and men’s basketball, while supplies last. Admission to other regular season home events is free to all currently registered full-time Cal students with student ID. **Note:** There are no student discounts for post-season events. For additional information, visit CalBears.com or call 800 GO BEARS or (510) 642-3277.

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**CAL Quiz No. 17**

Identify three items that are named for former Berkeley chancellors. (Answer on page 525.)
Fee Schedule*

At the time of registration, by mail or in person, students pay the following fees each semester:

<table>
<thead>
<tr>
<th>State Type</th>
<th>Undergraduate Fees per Semester</th>
<th>Graduate Academic Students Fees per Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residents</td>
<td>$4,465.75</td>
<td>$5,106.75</td>
</tr>
<tr>
<td>Nonresidents</td>
<td>$14,769.75</td>
<td>$12,609.75</td>
</tr>
</tbody>
</table>

Additional Fees for Law, M.B.A., Optometry, Public Policy, Public Health, and UCB-UCSF Joint Medical Program Students—Students in the Schools of Law, Optometry, Public Policy, Public Health; the M.B.A. programs in the Haas School of Business; and the UCB-UCSF Joint Medical Program are subject to different fee schedules. For information, call the individual schools or programs or go to registrar.berkeley.edu.

Financial Aid

The Office of Financial Aid is located on the second floor of Sproul Hall. Please refer to the directory to the left for the addresses and telephone numbers of the various units. You may obtain detailed information about the various kinds of student aid available to Berkeley students from the Financial Aid web page at financialaid.berkeley.edu.

Students may apply for a variety of financial aid funds, including grants, scholarships, work-study, and loans. Students renew their financial aid applications online at fafsa.ed.gov. The deadline for filing is March 2.

All financial aid except fellowships, honorary scholarships, teaching and research appointments, and prizes is granted on the basis of financial need. Financial need is the difference between the cost of attendance for the academic year and the amount you and your family can contribute toward those costs. Prizes are awarded on the basis of competition or outstanding ability in some area of creative or scholarly endeavor. Most scholarships are awarded on the basis of academic performance and financial need. For detailed information on scholarships and prizes, visit students.berkeley.edu/finaid.

*These are the fees that were in effect for the spring 2009 semester. Fees for subsequent semesters had not been determined when this catalog went to press. Please go to registrar.berkeley.edu for current information. All fees are subject to change.

The strongest advice I can give anyone coming to Cal is this: Do not give up! Part of your education at Berkeley comes from your experience of surviving at Cal. And by surviving I mean dealing with mix-ups with financial aid, getting classes, declaring your major, connecting with your professors, and getting housing, all while trying to learn in an environment where 30,000 other people are trying to do the same thing. It is an experience that will serve you for the rest of your life. You learn to be resourceful and tenacious.

Adan Tejada,
Lieutenant, UCPD

Lawrence Rinder, director of the Berkeley Art Museum and Pacific Film Archive, makes a rich collection available to students.
Much of the funding for graduate students comes from sources other than the Financial Aid Office. Fellowships are awarded through the Graduate Division. Information and applications are available at the Graduate Division, 318 Sproul Hall.

**Reserve Officers Training Corps**

The University of California, as a land-grant institution established by the Morrill Act of 1862, offers courses and programs in military training. This training is voluntary and affords you the opportunity to qualify for a commission as an officer in the Army, Navy, Air Force, or Marine Corps while completing your college education. Reserve Officers Training Corps (ROTC) courses are offered by three departments: Aerospace Studies (Air Force), Military Science (Army), and Naval Science (Navy and Marine Corps). Scholarship programs are available; they carry a monthly stipend and pay for tuition, books, and most fees for qualified students. Individual programs are described under Military Officers Education Program in the “Courses and Curricula” section of this catalog.

**Veterans’ Educational Benefits**

The Veterans Services Unit in the Office of the Registrar certifies eligible veterans, dependents, surviving spouses, and reservists for educational benefits.

As the campus liaison to the Veterans Administration and the State Department of Veterans Affairs, Veterans Services can answer all questions regarding your eligibility for benefits and can assist you with counseling and referrals. A veterans’ work-study program, a tutorial assistance program, and a fee waiver program are also available.

If you are a veteran newly admitted to Berkeley, please submit a certified copy of your Certification of Release or Discharge from Active Duty (form DD-214). You may also need to submit certified copies of your marriage certificate, dependent children’s birth certificates, and final divorce decree, if applicable.

If you are a veteran’s dependent, you must provide your spouse or parent’s VA claim number and social security number. The VA pamphlet, “A Summary of Veterans Administration Benefits,” is available upon request.

If you have questions or need more information, you may call the Veterans Services Unit, Office of the Registrar at (510) 642-5990 or e-mail orreg@berkeley.edu.

**Fellowships, Graduate Scholarships, and Academic Appointments for Graduate Students**

Numerous programs—from fellowships, grants-in-aid, and loans to assistantships, subsidized housing, and child care programs—provide ways in which you can reduce the costs of graduate school. Some of the programs are need-based and are administered through the Financial Aid office. These programs are discussed in preceding paragraphs. Others are merit-based and are administered through the Graduate Services: Fellowships and Appointments Offices and the academic departments. For detailed information about all the sources available to you, consult the “Graduate Application for Admission and Fellowships,” available online at grad.berkeley.edu/admissions/grad_app.shtml.

**Fellowships and Graduate Scholarships**

Applications for University fellowships and graduate scholarships are considered only once a year. Awards are made for the academic year beginning with the fall semester. U.S. citizens and permanent residents are required to complete the “Free Application for Federal Student Aid” (FAFSA) online at students.berkeley.edu/finaid for determination of financial need.

**Fellowship Application Procedure**—If you are applying for admission/fellowship, you must file the combined “Graduate Application for Admission and Fellowships,” according to instructions included in the application.
If you are applying for admission for the spring semester, you should see your department for a financial award to begin the following fall semester.

If you are a continuing or returning graduate student at Berkeley, you may obtain the necessary fellowship application materials from your department or graduate group. For a list of funding opportunities throughout the year, visit the Graduate Fellowships web site at grad.berkeley.edu/financial_deadlines.shtml.

The fellowship application deadlines for new students range from early December to late January, depending on the department; see the “Graduate Application for Admission and Fellowships” for deadlines. Continuing students should see their departments before January 5.

Announcement of Awards—Awards are announced by April 1 and must be accepted or declined, in writing, by April 15.

Fellowship Supplementation—Fellows receiving stipends of $8,500 or more may be employed no more than 25 percent time per semester as teaching or research assistants or in similar educationally relevant positions. Any exception to this policy must be approved by the dean of the Graduate Division upon recommendation of the graduate adviser.

Graduate Diversity Program (GDP)
The Graduate Diversity Program provides a foundation of active support for underrepresented students through a number of important services:

- Outreach visits throughout the country
- Academic advising/mentoring throughout the student’s academic career
- Undergraduate research opportunities
- Advice on applying to graduate school
- Monthly seminars on professional development
- Career advice/planning
- Networking opportunities on campus

Underrepresented students will find social and academic support in the numerous student organizations on campus, such as those listed on the Graduate Minority Students’ Project web site at ga.berkeley.edu/projects/minority.php. In addition, the university maintains discipline-based student diversity programs in engineering, the humanities, public health, and the biological, physical, and social sciences (grad.berkeley.edu/diversity/diversity_professionals.shtml).

For information regarding opportunities and support on behalf of diversity, please contact the Graduate Diversity Program, University of California, Berkeley, 316 Sproul Hall #5900, Berkeley, CA 94720-5900, call (510) 643-6010, e-mail grad.diversity@berkeley.edu, or consult the Graduate Diversity Program at grad.berkeley.edu/diversity.

Academic Appointments
Academic appointments are an important source of financial support for Berkeley graduate students, although their availability varies from department to department. As part of an offer of admission, some departments may propose a combination of teaching and research appointments as part of a financial support package. Other departments may expect graduate students to arrange for appointments once they have been admitted.

Graduate students appointed by the University to most academic titles must meet minimum academic requirements, such as GPA and a limit on incomplete grades, and be registered and enrolled in at least 12 units of 100- to 200-level courses per semester until they are advanced to doctoral candidacy. Units in the 600 series may be substituted for 200-level units when appropriate. Lower division units taken to prepare for departmental requirements (languages, mathematics, statistics) may be substituted for 100-level units. Most graduate student academic appointments are eligible for fee remissions in addition to salary. For more information on eligibility requirements and the availability of appointments, contact the department for which you wish to work. Departments occasionally may list openings with the Career Center.

Graduate students are restricted to working no more than half time regardless of the positions they hold. To ensure proper academic progress, the University may not appoint candidates for higher degrees in any capacity at more than half time during the academic year without the express consent of the dean of the Graduate Division. Summer appointments may be full time.

CAL Quiz
No. 19
What was the University’s first postal address?
(Answer on page 525.)
Fees and Financial Aid

GSIs, acting instructors, readers, tutors, nursery school assistants, and community teaching fellows are covered by a collective bargaining agreement with the United Automobile Workers (UAW). Under the language of the contract, students hired in these titles are referred to as ASEs (academic student employees). You will find this acronym used in the contract and in campus communications. ASEs should familiarize themselves with the contract (at yourservice.ucop.edu/employees/policies_employee_labor_relations/collective_bargaining_units/academicstudentemployees_bx/contract_articles/ase_agreement_2007-2009.pdf).

Information on anticipated appointments for the next academic year can be found on the Labor Relations web site at hrweb.berkeley.edu/hrlabor.htm.

Teaching Appointments—Many departments make graduate student instructor (GSI) positions available to qualified graduate students. GSIs must be registered full-time students and are limited to working half time or less. They are chosen for scholarly achievement and promise as teachers, and they serve under active supervision of the regular faculty. Some departments require their students to complete a specified minimum period of teaching as part of their Ph.D. programs.

Graduate students who do not speak English as a native language and do not hold a bachelor’s degree from an institution in the United States must pass a test of spoken English before they can be appointed as graduate student instructors. If you have taken the TOEFL iBT, your speaking section score will be used to determine your proficiency. If you have not taken the TOEFL iBT and need to demonstrate oral English proficiency, the Speaking Proficiency English Assessment Kit (SPEAK) will be administered at Berkeley.

For further information on the Language Proficiency Program (testing and courses), please refer to the GSI Teaching and Resource Center web site at gsi.berkeley.edu. For information on the TOEFL, please refer to the TOEFL web site at toefl.org.

Research Appointments—If you are a qualified registered full-time graduate student, you may seek a research appointment in the departments, centers, and institutes of the University. Graduate student researchers (GSRs) perform research broadly related to their degree programs in an academic department or research unit under the direction of a faculty member or authorized principal investigator. The duration and extent of such an appointment may vary. If interested, you should apply directly to the department, center, or institute in which you wish to work.

Stipends and Fee Remissions—Stipend figures for all positions mentioned above are subject to United States income tax deductions. If you are offered an appointment, you should obtain information about payment schedules, since payment for work performed is later than the deadline for payment of registration fees. For teaching appointments, payment is usually in five equal installments per semester.

Some appointments carry a benefit called a fee remission, which offsets either a portion or all of your assessed fees. Check with your department to determine your specific eligibility, but you’ll find all the basic requirements in the Fee Remission Bulletin online at grad.berkeley.edu/policies/pdf/fee_remission_bulletin.pdf.

More information about being a Graduate Student Instructor, Graduate Student Researcher, Reader, or Tutor is available from the Graduate Services: Appointments office at grad.berkeley.edu/policies/appointments_office.shtml.

CAL Quiz
No. 20
Where is “sophomore lawn”? (Answer on page 525.)
Exercising options, to compete or just have fun

Beautiful Bay Area outdoor spots and busy campus sports facilities attract Berkeley students, as participants and spectators alike. Students cheer on more than 800 student-athletes in 27 intercollegiate sports — from football and basketball to crew and lacrosse — but many hundreds more make the time to hit the water, turf, court, mat, or bike path themselves, just for fun.
Academic Policies

The Semester System

Under the semester system on the Berkeley campus, the academic year is divided into two semesters and one summer session. Quarter units, either earned previously at Berkeley or at another institution, are converted to semester units by multiplying by two-thirds; for example, 180 quarter units equal 120 semester units.

Courses and Units

Most University courses are assigned a unit value. One unit represents three hours of work per week by the student, including both class attendance and preparation. Laboratory, discussion, quiz, or review sessions may or may not be given unit value.

Grades

The work of all students on the Berkeley campus is reported in terms of the following grades: A (excellent), B (good), C (fair), D (barely passing), F (failure), P (passed at a minimum level of C-), NP (not passed), S (satisfactory, passed at a minimum level of B-), U (unsatisfactory), I (work incomplete due to circumstances beyond the student’s control, but of passing quality), IP (work in progress; final grade to be assigned upon completion of entire course sequence). The grades A, B, C, and D may be modified by plus (+) or minus (-) suffixes.

A course in which the grade A, B, C, D, or P (undergraduate students only) is received is counted toward degree requirements. A course receiving the grade S (graduate students only) is similarly counted unless otherwise specified in the course description. A course in which the grade F, NP, or U is received is not counted toward degree requirements. A course in which the grade of I or IP is received is not counted toward degree requirements until the I or IP is replaced by grade A, B, C, D, P, or S.

Grade Points

Grade points per unit are assigned as follows: A=4, B=3, C=2, D=1, and F=none. When attached to the grades A, B, C, or D, plus (+) grades carry three-tenths of a grade point more per unit, and minus (-) grades three-tenths of a grade point less per unit than unsuffixed grades, except for A+, which carries 4.0 grade points per unit as does the A.

Grade Point Average (GPA)

Your GPA is computed on courses undertaken in the University of California. Effective fall 2005, XB courses undertaken in University Extension at Berkeley count toward your GPA. Grades A, B, C, D, and F are used in determining your GPA; grades IP, P, S, NP, and U carry no grade points and are excluded from all grade-point computations. Grade I, if assigned before fall 1973, is included and is computed as an F; an I grade assigned fall 1973 and later is excluded from computations. For additional information, see “Repetition of Courses” next page.

Computation of GPAs

<table>
<thead>
<tr>
<th>Grade</th>
<th>Units</th>
<th>Grade Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>3</td>
<td>12</td>
</tr>
<tr>
<td>B+</td>
<td>3</td>
<td>9.9</td>
</tr>
<tr>
<td>C-</td>
<td>3</td>
<td>5.1</td>
</tr>
<tr>
<td>P</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>I</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>Totals</td>
<td>9</td>
<td>27</td>
</tr>
<tr>
<td>Average</td>
<td>3.000</td>
<td></td>
</tr>
</tbody>
</table>

Special Provisions—Graduate Students

Only courses graded A, B, C (with or without plus or minus signs), or S are accepted in satisfaction of degree requirements. Courses graded below C- do not yield unit credit toward a higher degree, regardless of your overall GPA. Graduate students must maintain a minimum GPA of 3.0 in all upper division and graduate coursework undertaken in graduate standing in the University of California or its exchange programs. Note: Departments, schools, and groups may have a higher performance standard than the minimum B average (3.00 GPA) required by the Graduate Division. You must also work full time at your academic or professional program unless a program with fewer units is approved under special circumstances by your graduate adviser. In addition, you must successfully complete all coursework required by your department, school, or group program, be advanced to candidacy, pass the required examinations, and fulfill other requirements specified for the program.
For a course extending over more than one semester in which evaluation of your performance is deferred until the end of the final semester, provisional grades of in progress (IP) may be assigned in the intervening semesters. The provisional grades are replaced by the final grade if you complete the full sequence. If you do not complete the full sequence, the Berkeley Division of the Academic Senate is authorized to regulate the award of credit.

With the consent of the department involved, graduate students may enroll in courses in the 600-series. These courses are evaluated by means of the grades satisfactory and unsatisfactory (S and U). They prepare you for appropriate master’s or doctoral examinations and do not count toward academic residence or the unit requirements for a higher degree. You may earn 1-8 units of 601 or 602 per semester or 1-4 units per summer session and accumulate a maximum of 16 units in 601 and 602, respectively, toward examination preparation. No credit is allowed for work graded unsatisfactory.

Passed/Not Passed and Satisfactory/Unsatisfactory Grades

If you are an undergraduate in good academic standing (2.0 GPA or better, or in good academic standing under the academic probation regulations of your college or school), you may elect to take letter-graded courses on a passed/not passed basis, and if you are a graduate student in good academic standing, you may elect to take letter-graded courses on a satisfactory/unsatisfactory basis with the consent of your department, school, or group. Credit for courses taken on these bases is limited to one-third of the total units that you have taken and passed on the Berkeley campus at the time your degree is awarded. Included in this one-third are any units completed in an Education Abroad program, or on another University of California campus in an intercampus exchange program, or in a joint doctoral program. For graduate degree programs, grades of satisfactory assigned in courses of the 300, 400, or 600 series are excluded from this computation. If you enroll in a course offered only on a passed/not passed or satisfactory/unsatisfactory basis, you will be graded P/NP if an undergraduate and S/U if a graduate. A course that is required in or prerequisite to your major may be taken on a P/NP or S/U basis only upon approval of the faculty of your school or college.

If you are a special or limited-status student, you may take courses on a P/NP basis at the discretion of the dean of your college or school. You may not repeat on a P/NP basis a course that you have previously taken on a letter-graded basis. The option of being graded P/NP or S/U in a course may be cancelled if you are found to be ineligible for the option. If the course is offered on a P/NP or S/U basis only, it may be deleted from your study list at the option of your dean or the Office of the Registrar.

If you want honors at graduation, you should consult your college, school, or division for additional restrictions. Your level of performance must correspond to a minimum letter grade of C- if you are to receive a passed grade, and to a B- if you are to receive a satisfactory grade.

These rules may be further limited by the faculties of the various schools and colleges and by the Graduate Council.

Grade I (Incomplete)

The grade I may be assigned if your work in a course has been of passing quality but is incomplete for reasons beyond your control. Prior arrangements must be made with the instructor because in assigning the I grade the instructor is required to specify the reasons to the department chair.

For graduate students, the I grade will remain on the record until the required work is completed. Graduate students must finish the course requirements as soon as possible. To remove an I grade from your record, you must file the appropriate petition and fees with the Office of the Registrar, 120 Sproul Hall.

Although I grades are not counted in computing the GPA, it is important to remove them quickly. In order to hold an academic appointment, graduate students may not have more than two I grades on their academic records. You should seek the advice of the Graduate Division if you have further questions concerning I grades.

For undergraduate students, an I grade received in the fall semester must be replaced by the first day of instruction in the following fall semester. An I grade received in the spring semester or summer session must be replaced by the first day of instruction in the following spring semester.

When you complete the required work or deferred examination, grade points will be assigned if you receive a grade of A, B, C, or D. If you repeat the course, grade points will then be assigned to the earned grade if the dean has given prior written approval to repeat it. If you repeat the course without the approval of the dean, the I grade will be converted to an F and the repeated course will be treated the same as any other course in which you receive an F. The dean of your college or school may extend the deadline for undergraduate completion of an I grade. For undergraduates, except as noted below, any I grade which has not been replaced within the above deadlines will, at the end of that time, be converted to grade F (or NP if taken passed/not passed). After that time, but not retroactively, the grade is counted in computing your GPA.
Exceptions: Within the above deadlines for completing an I grade, undergraduate students may notify the dean that they have not attempted completion and will not complete the work required for removal of the I grade, and may request that the grade not be replaced by an F (or NP). This procedure is limited to a maximum of two courses. Once the decision has been made, it is irrevocable; the course cannot afterward be completed by any means, including repetition of that course or any equivalent course.

If a degree is conferred before the end of the above deadlines following the assignment of an I grade, the grade will not be converted to an F (or NP). However, you still have the option of removing the I grade within the above deadlines.

If you are an undergraduate student with 12 or more units of I on your record, you may not register without the permission of the dean.

All students who receive an I grade must file a “Petition for Grade and Grade Points in an Incomplete Course,” available online at registrar.berkeley.edu and at the Office of the Registrar, 120 Sproul Hall. You should file the petition with the department in which you received the I grade as soon as you and the instructor have established the date you completed the course. The filing fee is $5, payable at the Registrar’s Office. You should make arrangements to complete the course at least 30 days before the deadline. The final grade cannot be recorded until you have filed the petition with the department and paid the fee.

Note: The I grade is not physically replaced or removed from the academic record. Completion of the work is reflected as a subsequent line entry on the record, and the units and grade points thus earned will be included in the grade-point computations at the close of the next session.

Grade IP (In Progress)

If you take a course extending over more than one term and evaluation of your performance is deferred until the end of the final term, provisional grades of IP (In Progress) are assigned in the intervening term(s). The provisional grades are replaced by one final grade if you complete the full sequence. The grade IP is not included in the GPA. Effective with an IP assigned fall 1973 or later, if the full sequence is not completed as scheduled, the IP will be replaced by a grade of Incomplete. Further changes in your record will be subject to the rules pertaining to I grades (see above).

Changes of Grade

All grades except I and IP (see above) are considered final when assigned by an instructor at the end of a term. An instructor may request a change of grade when a computational or procedural error occurred in the original assignment of a grade, but a grade may not be changed as a result of re-evaluation of your work. No final grade may be revised as a result of re-examination or the submission of additional work after the close of the term.

Grade Appeal Process

If you have a grievance about a grade, you should first try to speak with your instructor and/or the student ombudsperson. If that does not resolve your grievance, you may formally appeal. The following are grounds for appeal: The application of non-academic criteria, such as the consideration of race, politics, religion, sex, or other criteria not directly reflective of performance related to course requirements; sexual harassment; or improper academic procedures that unfairly affect your grade. Formal procedures may not be activated unless you, the instructor in charge, an ombudsperson (or any mutually accepted third party), and the department chair have failed to resolve the dispute informally. The formal procedure, once initiated, is to be completed at the unit level within 20-working days and at the Senate level within 40-working days if both parties are in residence and the University is in regular session. The formal process must be initiated within one calendar year of the last day of the term in which the course in question was taken.

Formal Appeal of Grades in Courses and Examinations

Each department or other instructional unit shall establish a standing Grievance Committee Chair. For each case, the chair will appoint an ad hoc Grievance Committee composed of three faculty members, only two of whom may be from the same unit, and two students in good standing appointed by the student association of the unit. If no student association
exists, the students are to be appointed by the ASUC or the Graduate Assembly. (The student members must have passed courses or an examination in the unit at least at the level of the disputed course or examination and have been in residence for at least one year.) The ad hoc Committee will review all the required materials (from the student and instructor) and make a recommendation regarding a resolution to the grievance. The ad hoc Grievance Committee’s recommendation to the Committee on Courses of Instruction, including any minority views, must be given in writing.

If the Committee on Courses of Instruction finds in the student’s favor, it may change a failing grade to a P or S, drop a course retroactively, retain the course but eliminate the grade from the GPA, or adopt the letter grade, if any, that was recommended by four of the five members of the Grievance Committee of the unit(s).

For a complete copy of current grade grievance procedures, go to academic-senate.berkeley.edu/committees/coci.html. For a complete copy of Berkeley Division Regulation A207, which governs grade appeals, go to academic-senate.berkeley.edu/resources/regulations_toc.html.

Credit by Examination

Undergraduate Students
You may earn credit by examination in two ways:

(1) If you are a new or re-entering undergraduate student, on the recommendation of the Board of Admissions you may be allowed credit by examination for knowledge that you acquired since graduation from high school, either by independent study or at another institution, and for which you have not been allowed advanced standing credit. You should apply to the Office of the Registrar for credit.

(2) If you are a student in good standing and currently registered in a regular session, you may qualify for course credit by examination. You may apply for credit to the dean of your college or school on the “Petition for Credit by Examination,” obtainable from the Office of the Registrar or online at registrar.berkeley.edu. You may apply for credit by examination in any course listed in the current General Catalog that pertains to the regular sessions at Berkeley. However, if the subject in which you want to be examined should be one in which, in the opinion of the instructor in charge of the department, knowledge can be tested by examination. You must file a separate petition for each course for a fee of $5 per course. In certain laboratory, field, or practice courses, neither a written nor an oral examination may be a satisfactory test. You may not receive credit by examination: (1) if the credit would duplicate credit that you presented for admission to the University, or (2) in elementary courses in your native language if it is not English. The examination must cover the entire course and be administered at one sitting of no longer than three hours. It may be the regularly scheduled final examination for the class, provided that the examination meets the foregoing criteria. The result of the examination may be reported to the Office of the Registrar only as passed or satisfactory, according to the regulations governing the assignment of these grades. Further information concerning credit by examination may be obtained from the Office of the Registrar.

Graduate Students
If you are a graduate student in residence, you may petition to receive a limited amount of course credit toward your degree by passing examinations on material covered in certain courses in lieu of taking those courses. Laboratory courses, graduate seminar, and research courses are excluded. You must be registered for at least 4 units of upper division and/or graduate coursework at the time you take the examination and you must be in good academic standing (3.0 GPA or better). The final result of the examination will only be reported as satisfactory or unsatisfactory. You may obtain the petition from the Office of the Registrar. Approval to take these examinations must be given by the dean of the Graduate Division and by the course instructor, or, if no instructor is designated, by the department chair.
Midterm and Final Examinations

The number of midterm examinations varies at the discretion of the instructor. Deficient grades for undergraduate students whose work at midterm is of D, F, or NP quality are posted on Bear Facts during the ninth week of the semester. Final examinations are required in all undergraduate nonlaboratory courses, with the exception of courses that the online Schedule of Classes indicates do not require a final examination. This requirement allows you to demonstrate mastery of course material while providing the instructor with written evidence for evaluation. You may be re-examined only to complete an incomplete grade, not to raise any other grades. The examination may last no longer than three hours and must be administered at the time announced in the online Schedule of Classes. Any deviation from this announced time, including take-home examinations, requires approval from the Committee on Courses of Instruction. This requirement guarantees you ample prior notice of the examination time and eliminates conflict with other examinations.

It is the responsibility of instructors and/or departments to return to students their final examinations or copies of them, or to retain students’ final examinations or copies of them, for 13 months after the dates of such examinations.

Other Academic Policies

Grade Reports and Transcripts

After grades are recorded for a semester, they are available on Bear Facts. Transcripts for registered students may be ordered online approximately 30 days after the date of the last final exam. Alumni and students who are not registered may order transcripts at the Office of the Registrar, 120 Sproul Hall. See the Office of the Registrar’s web site at registrar.berkeley.edu for further information.

Cal 1 Cards

Your Cal 1 Card is your official identification as a student at Berkeley. If you have not already had your photograph taken for the card, you should do so as soon as possible. If you are a newly admitted student, you can have your photograph taken as soon as you receive your Tele-BEARS registration form for the semester. In order to get your Cal 1 Card, you will need to present a current government-issued identification card (i.e., driver’s license or passport) and know your student ID number. The first card is free; replacement cards are $25 (nonrefundable). For more information, go to the Cal 1 Card Office, 180 César Chávez Student Center, lower Sproul Plaza; call (510) 643-6839; or visit callcard.berkeley.edu.

Change of Name or Address

Changes to your local or permanent address or telephone number can be entered directly on the Bear Facts system (see page 38). You can also change your address at your department or college/school dean’s office. If you have changed your name, go to the Office of the Registrar, 120 Sproul Hall, and complete a “Change of Name” form.

Access to Records

You are entitled by law and University policy to examine and challenge most of the records that the University maintains on you. These records are confidential and in most circumstances may be released to third parties only with your prior consent. Such matters are detailed in the Berkeley Campus Policy Governing Disclosure of Information from Student Records, available in the Office of the Registrar, 120 Sproul Hall.

Classroom Note-Taking and Recording Policy

As part of the education and learning experience, enrolled students routinely take course lecture notes. With the permission of the instructor, students may record lectures as well. Lecture notes and recordings involve issues related to the intellectual property rights of instructors and the University’s regulation of commercial activity on campus. To protect these rights, the University has adopted policies governing note-taking in classrooms:

• Unless approved by the chancellor, commercial activity at Berkeley is prohibited.

• Course notes may not be sold or distributed without the express written approval of the instructor.

• The instructor retains the right to approve the designated note taker in advance. The note taker must be a student enrolled in the class, unless otherwise authorized by the instructor.

• The instructor has the right to review and approve course notes in a timely manner before their distribution.

• The instructor has the right to negotiate the terms and conditions with ASUC Lecture Notes Online, including, but not limited to, royalties.

Students violating these policies can be charged under Section V.102.23 of the Code of Student Conduct.

The full text of this policy is available in the “Appendix” of this catalog.
Leaving Berkeley

Cancellation or Withdrawal of Registration

If you do not wish to attend the University for a semester and instruction has not yet begun, you must formally request a cancellation of your registration from the University. If instruction has already begun and you find it necessary to stop attending classes, you must formally request a withdrawal from the University. Whether you cancel or withdraw, any classes in which you are enrolled will be dropped from your schedule, and you will no longer be eligible to attend for that semester or any future semester until you are readmitted.

Cancellation
You can cancel your registration by Tele-BEARS or by notifying the Office of the Registrar in writing before the first day of instruction for the semester. You can also go to your college or school dean’s office (undergraduates); your major department (graduate students); or the Office of the Registrar, Student Services, 120 Sproul Hall, to have your cancellation processed electronically.

Withdrawal
You must notify your adviser at your college or school dean’s office (undergraduates) or your major department (graduate students), who will process your withdrawal electronically; you do not need to file a petition at the Office of the Registrar. If you are withdrawing for medical reasons, you should contact University Health Services at the Tang Center, 2222 Bancroft Way, after notifying your adviser. If you are an international student on an F-1 or J-1 visa, you must see an adviser at Services for International Students and Scholars, International House, 2299 Piedmont Avenue, since your visa status may be jeopardized. If you have a student loan, you are required to have an exit interview at the Loans and Receivables office, 192 University Hall.

Withdrawal Adjustments

All withdrawal adjustments are applied to students’ CARS accounts and may be applied to any outstanding debts. Late fees are not refundable. Students who withdraw and who are participating in the Deferred Payment Plan are likely to have a remaining financial obligation to the University.

Return of financial aid funds to aid programs complies with the 1998 Reauthorization of the Federal Higher Education Act. The amount of financial aid to be returned is based upon the number of days in the semester the student was not enrolled, divided by the total number of days in the term. The percentage derived from this is applied to the amount of aid the student was awarded, and the result is returned to aid programs.

Financial aid adjustments are not related to registration fee adjustments. Registration fees are adjusted by University policy (see below), and this policy has not changed. UC Berkeley has adopted the federal rules for all financial aid. Therefore, all aid is subject to the formula above, which requires repayment of the unearned aid based on the percentage of time unattended.

If you withdraw before the disbursement of aid, you may still be eligible for a disbursement. The records of all withdrawing financial aid students with undisbursed aid or Pell eligibility will be reviewed, and you will be notified of the option to receive disbursement of this aid, if applicable. Note: If you withdraw, it is imperative that you update your address(es) on Bear Facts so that you are able to receive this notice.

Important: If you leave but do not formally withdraw, you will be presumed to have left at the midpoint of the semester. Your fees will not be adjusted, but most likely you will have to return one-half of any aid received.

For more information, go to students.berkeley.edu/finaid (search “withdrawal”) or contact the Office of Financial Aid, second floor, Sproul Hall, (510) 642-6442 (undergraduates) or (510) 642-0485 (graduate students, professional schools).

Schedule of Prorated Fees for New Students Who Have Had Federal Financial Aid Applied to Their CARS Accounts and Withdraw During Their First Academic Term

<table>
<thead>
<tr>
<th>Days</th>
<th>Prorated Fees</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-7</td>
<td>0%</td>
</tr>
<tr>
<td>8-14</td>
<td>10%</td>
</tr>
<tr>
<td>15-28</td>
<td>20%</td>
</tr>
<tr>
<td>29-35</td>
<td>30%</td>
</tr>
<tr>
<td>36-49</td>
<td>40%</td>
</tr>
<tr>
<td>50-56</td>
<td>50%</td>
</tr>
<tr>
<td>57-63</td>
<td>60%</td>
</tr>
<tr>
<td>64 or more</td>
<td>100%</td>
</tr>
</tbody>
</table>
Schedule of Prorated Fees for All Continuing and Readmitted Students and New Students Who Have Not Had Federal Financial Aid Applied to Their CARS Accounts

<table>
<thead>
<tr>
<th>Days</th>
<th>Prorated Fees</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-1</td>
<td>0%</td>
</tr>
<tr>
<td>2-11</td>
<td>10%</td>
</tr>
<tr>
<td>12-27</td>
<td>50%</td>
</tr>
<tr>
<td>28-53</td>
<td>75%</td>
</tr>
<tr>
<td>54 or more</td>
<td>100%</td>
</tr>
</tbody>
</table>

Registration Fee Adjustments

The amount of registration fees that you may be responsible for at the time of your withdrawal or cancellation is prorated according to the effective date of your withdrawal or cancellation, according to the tables below. Note: The health insurance and Class Pass fees are nonrefundable and, therefore, remain assessed at 100 percent for all withdrawals, regardless of the effective date.

Returning to Berkeley

Attending Berkeley After Cancellation

New Students—If you cancelled your registration and wish to attend Berkeley in a future semester, you must submit a new application for admission. Your previous admission status will have no bearing on the decision for admission in the future.

Continuing Students—If you cancelled your registration and wish to attend Berkeley in a future semester, you must submit an “Application for Readmission” (see “Attending Berkeley After Withdrawal,” below).

Attending Berkeley After Withdrawal

If you withdrew from the University and wish to return in a future semester, you must submit an Application for Readmission, available at the Office of Undergraduate Admissions, 110 Sproul Hall (for undergraduates) and at Graduate Services: Degrees, 318 Sproul Hall (for graduate students). The filing dates are June 1 for the fall semester and November 1 for the spring semester. For more information, see page 37 (undergraduates) or page 52 (graduate students).

Note: If you are an undergraduate in the Colleges of Engineering, Environmental Design, or Letters and Science, you may be subject to a “semester out” rule; consult your college dean’s office for more information.

Graduation from Berkeley

Undergraduate Students

Declaration of Candidacy—If you know at the beginning of a semester that you have fulfilled graduation requirements by the end of the semester, enter the appropriate code when you access the Tele-BEARS registration system. You may also declare your candidacy in person in the Office of the Registrar, 120 Sproul Hall. You have through the fifth week of classes in which to declare.

Nonregistered Students—If you are not registered at the time you are ready to declare your candidacy, you may come in person to 120 Sproul Hall to fill out the “Candidate for Bachelor’s Degree” form. The form is also available online at registrar.berkeley.edu under “general information/forms.” It can be mailed to Office of the Registrar, 124 Sproul Hall, University of California, Berkeley; Berkeley, CA 94720-5404.

Degree check—The Office of the Registrar will check your records to ensure that you have completed the University requirements (American History and Institutions and Entry-Level Writing, 120 units, and are in good academic standing) and the Berkeley campus American Cultures requirement. Your college or school will check for the fulfillment of major, department, and college or school requirements.

Confirmation of Candidacy—To verify that your name is on the degree list for the current term, check Bear Facts. If you think there is an error, send e-mail to the Office of the Registrar at orreg@berkeley.edu.

Certificate of Completion—A “Certificate of Completion” is official proof that you have been granted the degree for which you were working. All undergraduates, except engineering students, may request a certificate form from 120 Sproul Hall. The form is also available online at registrar.berkeley.edu under “general information/forms.” It can be mailed to Office of the Registrar, 124 Sproul Hall, University of California, Berkeley; Berkeley, CA 94720-5404. Engineering students must contact their college. The certificate will be mailed to you eight to ten weeks after the end of the semester. You must fill out a separate application for each request along with the required fee of $6 per request.
Graduate Students

To receive a graduate degree, students must successfully complete all coursework required, pass the requisite examinations, advance to candidacy, and fulfill other requirements specified for the degree. For detailed procedures and requirements, students should consult their department, school, or graduate group, and become familiar with the Graduate Division web site at grad.berkeley.edu. A general overview is provided in the “Graduate Education” section, beginning on page 49.

Commencement

Commencement exercises to honor students who have earned baccalaureate and graduate degrees and to give recognition and awards to students who are graduating with distinction are held each year in May. Students who have earned their degrees in the previous fall semester or in summer sessions are welcome to participate. The ceremonies are held by individual schools or colleges or, in the College of Letters and Science, by individual department. There are about 60 ceremonies each year. The ceremonies consist of speakers and the presentation of degrees and awards and are followed by a reception.

Diplomas

Diplomas are not given out at Commencement but are available approximately four months afterward. You may pick up your diploma from the Office of the Registrar, 120 Sproul Hall. After declaring candidacy, graduating seniors may enter a mailing address of where to receive their diploma using the Tele-BEARS web site at telebears.berkeley.edu. A fee of $12 domestic or $40 international will be billed to Campus Accounts Receivable System (CARS). (Note: These fees are subject to change.) The Office of the Registrar will retain diplomas for five years only.

Student Conduct and Appeals

Student Conduct

When you enroll in the University, you assume an obligation to conduct yourself in a manner compatible with the University’s function as an educational institution. Rules concerning student conduct, student organizations, use of University facilities, and related matters are set forth in both University policies and campus regulations, copies of which are available at Campus Life and Leadership, 102 Sproul Hall; The Center for Student Conduct and Community Standards, 2536 Channing, Bldg. E; and online at studentconduct.berkeley.edu. You should pay particular attention to the Berkeley Campus Regulations Implementing University Policies and the Berkeley Campus Code of Student Conduct.

Cheating or Plagiarism

Achievement and proficiency in subject matter include your realization that neither is to be achieved by cheating. An instructor has the right to give you an F on a single assignment produced by cheating without determining whether you have a passing knowledge of the relevant factual material. That is an appropriate academic evaluation for a failure to understand or abide by the basic rules of academic study and inquiry. An instructor has the right to assign a final grade of F for the course if you plagiarized a paper for a portion of the course, even if you have successfully and, presumably, honestly passed the remaining portion of the course. It must be understood that any student who knowingly aids in plagiarism or other cheating, e.g., allowing another student to copy a paper or examination question, is as guilty as the cheating student.
Sexual Harassment Policy

The Berkeley campus actively monitors and supports full compliance with the official University of California Policy on Sexual Harassment, which states: “The University of California is committed to creating and maintaining a community where all persons who participate in University programs and activities can work and learn together in an atmosphere free of all forms of harassment, exploitation, or intimidation. Every member of the University community should be aware that the University is strongly opposed to sexual harassment, and that such behavior is prohibited both by law and by University policy. The University will respond promptly and effectively to reports of sexual harassment, and will take appropriate action to prevent, to correct, and if necessary, to discipline behavior that violates this policy.”

The campus has complaint procedures designed to facilitate prompt and equitable resolution of sexual harassment and other sex discrimination complaints. If you believe that you have been a target of sexual harassment, have questions about the sexual harassment policy or about the complaint resolution procedures, or have questions about the interrelationship between the sexual harassment complaint procedures and other campus policies and procedures, you may address your inquiries to the Campus Climate and Compliance/Title IX Office, (510) 643-7985. The full text of the University Policy and further information is available at ccac.berkeley.edu/policies.shtml.

Sexual Harassment/Assault Peer Education Program

The Sexual Harassment/Assault Peer Education Program, coordinated by the campus Gender Equity Resource Center, provides educational workshops for student groups, resource referral, and support for individuals who may have experienced harassment or an assault. Short-term crisis intervention counseling is also available. For further information, call the Sexual Assault/Harassment Resource specialist at (510) 643-5727. University Health Services Social Services also offers counseling support, as well as services for recent survivors; contact (510) 642-6074.

Student Grievance Procedure

The Berkeley campus Student Grievance Procedure gives you an opportunity to resolve complaints alleging discrimination based on race, color, national origin, sex, handicap, age, and sexual orientation. You may also use the procedure to resolve any complaints you may have alleging that any other rules or policies of the Berkeley campus were inappropriately applied and resulted in an injury to you. The procedure is not applicable to certain kinds of complaints for which other appropriate appeals procedures exist, such as a grade appeal based on the application of nonacademic criteria. (See “Formal Appeal of Grades in Courses and Examinations” on page 76 for a description of the grade appeal process.) The procedure contains important time limitations and provisions about the interrelationship between this procedure and other campus complaint procedures. Copies of the procedure are available in 102 Sproul Hall or online at students.berkeley.edu/uga/grievance.stm.

Graduate Student Appeals

Through the Graduate Appeal Procedure, graduate students have the right to appeal academic or administrative decisions that have resulted in termination of their graduate status or have interfered with their progress toward a degree. Students should first initiate an appeal at the administrative level at which the disputed action took place. The Graduate Council requires each instructional unit to maintain copies of its current internal appeal procedure for information and use by its graduate students. If the action occurred in the student’s department, the department must make all reasonable efforts at informal and formal resolution, as stated in the Graduate Appeal Procedure, before the student may take the matter to the next level, which is the Graduate Division. Students may also consult with the Ombuds for Students at (510) 642-5754 for assistance with informal resolution.

Students who are not satisfied with the outcome of attempts to resolve the grievance in their home units may submit an appeal to the Graduate Division, after carefully following the guidelines of the Graduate Appeal Procedure. The Graduate Appeal Procedure and the “Graduate Appeal Procedure” form are available from the Graduate Services: Degrees and the Graduate Division web site at grad.berkeley.edu/policies/pdf/gradappeal.pdf.

CAL Quiz No. 26
Who is the one person known to have been officially “buried” on the Berkeley campus? (Answer on page 525.)
Learning blossoms in research collections

Books and the Internet are indispensable for young scholars, but there is nothing like Berkeley’s research museums and collections for studying the real thing, up close. It might be the delicate herbarium flora, archaeological artifacts, extensive specimens of birds and insects, rare films, or other treasures — in any field of study a first-hand encounter can be a first-rate learning experience.
Colleges and Schools

Haas School of Business

Office: S545 Student Services Building #1900, haas.berkeley.edu

Dean: Richard K. Lyons, Ph.D.

Associate Dean for Academic Affairs: Ganesh Iyer, Ph.D.

Senior Assistant Dean for Instruction: Jay Stowsky, Ph.D.

Directors:
- David Gent, M.B.A. (Evening & Weekend M.B.A. Program)
- Erika Walker, B.A. (Undergraduate Program)
- Julia Min Hwang, M.A. (M.B.A. Program)
- Linda Kreitzman, Ph.D. (Master’s in Financial Engineering Program)
- Miguel Villas-Boas, Ph.D. (Ph.D. Program)

For full coverage of the school’s degree programs, curricula, and requirements, see page 145.

College of Chemistry

Office of the Dean: 420 Latimer Hall #1460, chemistry.berkeley.edu

Undergraduate Majors Office: 420 Latimer Hall #1460, (510) 642-3452

Graduate information:
Contact individual departments

Dean: Richard A. Mathies, Ph.D.

Executive Associate Dean: Douglas Clark, Ph.D.

Associate Dean of Undergraduate Affairs: Marcin Majda, Ph.D.

Assistant Dean of Engineering and Facilities: Alexander Shstromberg

Assistant Dean of College Relations: Jane L. Scheiber

Assistant Dean of Administration and Finance: Suzanne Pierce

Organizational Units

Chemical Engineering

Department Office: 201 Gilman Hall #1462, (510) 642-2291
Chair: Jeffrey A. Reimer, Ph.D.

Chemistry

Department Office: 419 Latimer Hall #1460, (510) 642-5882
Chair: Michael A. Marletta, Ph.D.

Undergraduate Majors Office: 420 Latimer Hall #1460, (510) 642-3452

For full coverage of the college’s degree programs, curricula, and requirements, see page 167 and the individual departments.

Graduate School of Education

Office: 1501 Tolman Hall, (510) 642-5345, gse_info@berkeley.edu, gse.berkeley.edu

Dean: P. David Pearson, Ph.D.

For full coverage of the school’s programs, curricula, and requirements, see page 221.

CAL Quiz

No. 27

The first African American scholar to hold a tenured faculty position at the University of California served at Berkeley. Who was he and when did he join the faculty?

(Answer on page 525.)
College of Engineering

Office of the Dean: 320 McLaughlin Hall #1700, (510) 642-5771
Engineering Student Affairs Office: 308 McLaughlin Hall #1702, (510) 642-7594
Graduate Student Affairs Office: Contact specific department or program

Dean:
S. Shankar Sastry, Ph.D.
Executive Associate Dean:
Fiona M. Doyle, Ph.D.
Associate Dean of International Relations:
George Leitmann, Ph.D.
Associate Dean of Student Affairs:
Dennis Lieu, Ph.D.
Associate Dean of Research:
Tse-Jae King Liu, Ph.D.
Associate Dean of Capital Projects:
Carlo Séquin, Ph.D.

Organizational Units

Bioengineering
Department Office: 306 Stanley Hall, (510) 642-5833, bioeng.berkeley.edu
Chair: Dorian Liepmann, Ph.D.

Civil and Environmental Engineering
Department Office: 760 Davis Hall #1710, (510) 642-3261, ce.berkeley.edu
Chair: Lisa Alvarez-Cohen, Ph.D.

Electrical Engineering and Computer Sciences
Department Office: 231 Cory Hall #1770, (510) 642-3214, eecs.berkeley.edu
Chair: Stuart Russell, Ph.D.
Associate Chair: Costas J. Spanos, Ph.D.
Computer Science Division Office: 387 Soda Hall, (510) 642-1042, cs.berkeley.edu

Industrial Engineering and Operations Research
Department Office: 4135 Etcheverry Hall #1777, (510) 642-5484, ioer.berkeley.edu
Chair: Rhonda Righter, Ph.D.

Materials Science and Engineering
Department Office: 210 Hearst Memorial Mining Building #1760, (510) 642-3801, mse.berkeley.edu
Chair: Robert O. Ritchie, Sc.D.

Mechanical Engineering
Department Office: 6195 Etcheverry Hall, (510) 642-1338, me.berkeley.edu
Chair: Albert P. Pisano, Ph.D.

Nuclear Engineering
Department Office: 4153 Etcheverry Hall, (510) 642-5010, nuc.berkeley.edu
Chair: Jasmina L. Vujic, Ph.D.

Interdisciplinary Studies
Field Major Office: Undergraduate and Interdisciplinary Studies, 301 Campbell, (510) 642-9320
Director: Renate Holub, Ph.D.
For full coverage of the college’s degree programs, curricula, and requirements, see page 246.

College of Environmental Design

Undergraduate Office: 232 Wurster Hall, (510) 642-0832, ced.berkeley.edu
Dean:
Jennifer Wolch, Ph.D.

Organizational Units

Architecture
Department Office: 232 Wurster Hall #1800, (510) 642-4942, arch.ced.berkeley.edu
Chair: Gail S. Brager, Ph.D.

City and Regional Planning
Department Office: 228 Wurster Hall, (510) 642-3256
Chair: Karen Christensen, Ph.D.

Landscape Architecture and Environmental Planning
Department Office: 202 Wurster Hall, (510) 642-4022
For full coverage of the college’s degree programs, curricula, and requirements, see page 256.

School of Information

Office: 102 South Hall, (510) 642-1464, ischool.berkeley.edu
Dean:
AnnaLee Saxenian, Ph.D.
For full coverage of the school’s degree programs, curricula, and requirements, see page 306.

Graduate School of Journalism

Office: 121 North Gate Hall, (510) 642-3383, applysoj@berkeley.edu, journalism.berkeley.edu
Dean:
Neil Henry, M.A.
For information about the school’s degree program, course offerings, and requirements, see page 326 or visit the school’s web site.

I’m stressed out, but I like it that way. I take baths and go to bed early.

4th-year student
School of Law

Office of Admissions: 5 Boalt Hall, (510) 642-2274, law.berkeley.edu

Dean:
Christopher Edley Jr., J.D., M.P.P.

Associate Deans:
Howard A. Shelanski, Ph.D., J.D.
Jonathan Simon, Ph.D., J.D.
Stephen D. Sugarman, J.D.
Kathleen Vanden Heuvel, J.D., M.L.I.S.

Assistant Deans:
Louise A. Epstein, M.A.
Michele Frasier, J.D.
Victoria Ortiz, J.D.

Vice Chair, Jurisprudence and Social Policy:
Charles J. McClain Jr., J.D., Ph.D.

For full coverage of the school’s degree programs, curricula, and requirements, see page 335.

College of Letters and Science

Office: 113 Campbell Hall, (510) 642-1483, ls.berkeley.edu

Executive Dean:
Mark A. Richards, Ph.D.

Acting Executive Dean:
Janet S. Broughton, Ph.D. (January-December 2009)

Divisional Deans:
Janet S. Broughton, Ph.D. (Arts and Humanities)
Mark Schlissel, Ph.D. (Biological Sciences)
Mark A. Richards, Ph.D. (Mathematical and Physical Sciences)
(Acting) Deborah Nolan, Ph.D. (Mathematical and Physical Sciences, January-December 2009)
(Interim) Jan de Vries, Ph.D. (Social Sciences)
Tyler Stovall, Ph.D. (Undergraduate Division)

Associate Dean of the Undergraduate Division:
Robert G. Jacobsen, Ph.D.

Organizational Units

African American Studies
American Studies
American History and Mediterranean Archaeology
Anthropology
Art
  Practice of Art
  History of Art
Asian American Studies
Astronomy
Biostatistics
Buddhist Studies
Celtic Studies

Chemistry
Chicano Studies
Classics
Cognitive Science
College Writing
Comparative Literature
Computer Science
Demography
Development Studies
Dutch Studies
Earth and Planetary Science
East Asian Languages and Cultures
East European Studies
Economics
Law and Economics
English
Environmental Sciences
Ethnic Studies
Ethnic Studies Graduate Group
Film
Folklore
French
Gender and Women’s Studies
Geography
German
History
Integrative Biology
Interdisciplinary Studies
Italian Studies
Latin American Studies
Legal Studies
Linguistics
Logic and the Methodology of Science
Mathematics
Media Studies
Medieval Studies
Middle Eastern Studies
Molecular and Cell Biology
Music
Native American Studies
Near Eastern Studies
Peace and Conflict Studies
Philosophy
Physical Science
Physics
Political Economy
Political Science
Population Studies
Psychology
Religious Studies
Rhetoric
Scandinavian Science and Mathematics Education
Slavic Languages and Literatures
Social Welfare
Sociology
South and Southeast Asian Studies
Spanish and Portuguese
Statistics
Theater, Dance, and Performance Studies
  Theater and Performance Studies
  Dance and Performance Studies
Undergraduate and Interdisciplinary Studies
For full coverage of the college’s degree programs, curricula, and requirements, see page 338.

College of Natural Resources

Office of the Dean: 101 Giannini Hall, (510) 642-7171, nature.berkeley.edu
Office of Instruction and Student Affairs: 260 Mulford Hall, (510) 642-0542
  Dean: Keith Gilless, Ph.D.
  Executive Associate Dean: Bob Buchanan, Ph.D.
  Associate Dean of Instruction and Student Affairs: Stephen Welter, Ph.D.
  Associate Dean of Academic Affairs: Lewis Feldman, Ph.D.
  Assistant Dean of Instruction and Student Affairs: Kimberly Johnson

Organizational Units

Agricultural and Resource Economics
  Department Office: 207 Giannini Hall, (510) 642-3345, are.berkeley.edu
  Chair: Larry Karp, Ph.D.

Environmental Science, Policy, and Management
  Department Office: 137 Mulford Hall, (510) 643-7430, espm.berkeley.edu
  Undergraduate Student Services: 245 Mulford Hall, (510) 642-4240, (510) 642-6730
  Graduate Affairs Office: 245 Mulford Hall, (510) 642-6410
  Chair: Alan Goldstein, Ph.D.
  Vice Chair for Instruction: Kate O’Neill, Ph.D.

Environmental Sciences
  Department Office: 206 Mulford Hall, (510) 642-0542, environmentalsciences.berkeley.edu
  Co-Director: Stephen Welter, Ph.D.
  Co-Director: G. Mathias Kondolf, Ph.D.

Nutritional Science and Toxicology
  Department Office: 119 Morgan Hall, (510) 642-6490, nst.berkeley.edu
  Chair: Joseph L. Napoli, Ph.D.

Plant and Microbial Biology
  Department Office: 111 Koshland Hall, (510) 642-9999, plantbio.berkeley.edu
  Student Affairs Office: 111C Koshland Hall, (510) 642-5167
  Chair: Brian J. Staskawicz, Ph.D.
  Division Chair, Plant Biology: Brian J. Staskawicz, Ph.D.
  Division Chair, Microbial Biology: Thomas Bruns, Ph.D.

Graduate Programs

Agricultural and Resource Economics
  Office: 207 Giannini Hall, (510) 642-3345
  Head Adviser: Jeffrey Perloff, Ph.D.

Comparative Biochemistry
  Office: 117 Morgan Hall, (510) 643-2863
  Chair: Jack Kirsch, Ph.D.

Environmental Science, Policy, and Management
  Office: 133 Mulford Hall, (510) 642-6410
  Head Adviser: Kate O’Neill, Ph.D.

Microbiology
  Office: 111C Koshland Hall, (510) 642-5167
  Chair: John Taylor, Ph.D.

Molecular and Biochemical Nutrition
  Office: 117 Morgan Hall, (510) 643-2863
  Chair: Joseph Napoli, Ph.D.

Molecular Toxicology
  Office: 117 Morgan Hall, (510) 643-2863
  Head Adviser: Leonard Bjeldanes, Ph.D.

Plant Biology
  Office: 111E Koshland Hall, (510) 642-5167
  Head Adviser: Brian Staskawicz, Ph.D.

Range Management (M.S.)
  Office: 133 Mulford Hall, (510) 642-6410
  Chair: James Bartolome, Ph.D.

For full coverage of the college’s degree programs, curricula, and requirements, see page 387.

“Doctors of optometry are independent primary health care providers who specialize in the examination, diagnosis, treatment and management of diseases and disorders of the visual system, the eye and associated structures as well as the diagnosis of related systemic conditions.”

The official definition of an optometrist, adopted by the American Optometric Association Board of Trustees
School of Optometry

Office of the Dean: 351 Minor Hall #2020, (510) 642-3414
Office of Admissions: 397 Minor Hall #2020, (510) 642-9537, optometry.berkeley.edu
Dean: Dennis M. Levi, O.D., Ph.D.
Associate Dean for Academic Affairs: Gunilla Haegerström-Portnoy, O.D., Ph.D.
Associate Dean for Clinical Instruction: John C. Corzine, O.D.
Associate Dean for Clinical Affairs: Edward J. Revelli, O.D.
Associate Dean for Student Affairs and Head Graduate Adviser: Richard C. Van Shuyters, O.D., Ph.D.
Special Assistant to the Dean for External and Professional Affairs: Lawrence S. Thal, O.D., M.B.A.
Director of Residency Programs: Christina S. Wilmer, O.D.
Residency Supervisor: A. Mika Moy, O.D.

Organizational Unit

Graduate Group in Vision Science
Office of Admissions: 524 Minor Hall #2020, (510) 642-9804, vision.berkeley.edu
Chair: Austin Roorda, Ph.D.
For full coverage of the school’s degree programs, curricula, and requirements, see page 403.

School of Public Health

Office of the Dean and Student Services and Admissions: 417 University Hall, (510) 642-4670, sph.berkeley.edu
Dean: Stephen M. Shortell, Ph.D., M.P.H.
Associate Dean for Research: Arthur Reingold, Ph.D.
Associate Dean for Student Affairs: Denise Herd, Ph.D.
Associate Dean for Public Health Practice: Jeff Oxendine, M.B.A., M.P.H.
For full coverage of the school’s degree programs, curricula, and requirements, see page 438.

Goldman School of Public Policy

Office: 2607 Hearst Avenue, (510) 642-4670, gspp.berkeley.edu
Dean: Henry E. Brady, Ph.D.
Assistant Dean for Academic Affairs: Martha Chavez, M.S.
For full coverage of the school’s degree programs, curricula, and requirements, see page 450.

School of Social Welfare

Office: 120 Haviland Hall, (510) 642-4341, socialwelfare.berkeley.edu
Dean: Lorraine Midanik, Ph.D.
Associate Dean: Andrew E. Scharlach, Ph.D.
Director of Field Work: Bart Grossman, Ph.D.
Coordinator of Academic Programs: Amanda Reiman, Ph.D.
Assistant Dean for Administration: James C. Steele
Director of Admissions: Rafael Herrera, M.S.W., L.C.S.W., D.C.S.W.
For full coverage of the school’s degree programs, curricula, and requirements, see page 468.

Interdisciplinary Programs

Interdisciplinary Education

In some sense, all knowledge is interdisciplinary. Ideas, approaches, and problems do not cluster themselves “naturally” into disciplines. The organization of knowledge into specialized academic departments is a result of the complicated historical development of the modern university. Therefore, students will find that topics and methodologies are often shared by many disciplines and departments.

When we refer to interdisciplinary education we generally mean one of four approaches:
(1) the attempt to unify and synthesize ideas, as in a course on Topics in Western Civilization;
(2) the attempt to broaden traditional disciplines, as in the development of subfields such as political economy or social psychology;
(3) the study of new fields that are emerging outside departmental boundaries, such as cognitive science, bioengineering, and media studies;

CAL Quiz
No. 29
What piece of precious metal that has more historical than monetary value can be found in the Bancroft Library on campus?
(Answer on page 525.)
Students at Berkeley can pursue an interdisciplinary education formally by deciding to major in one of the interdisciplinary group or field majors, or informally by including special interdisciplinary courses in their curriculum or clustering their elective courses with an interdisciplinary focus.

Interdisciplinary Degrees

Many colleges and schools have their own interdisciplinary degree programs at both the undergraduate and graduate levels. (See Interdisciplinary Graduate Groups on pages 61-62 of this catalog.) Some offer, or collaborate in offering, special interdisciplinary courses.

Undergraduate and Interdisciplinary Studies (UGIS) administers some of the largest interdisciplinary programs serving undergraduates in the College of Letters and Science. All of its major programs cut across departmental boundaries; many cut across college boundaries as well. The field major in interdisciplinary studies allows students to develop their own areas of specialization under faculty supervision. UGIS also offers undergraduate majors in American studies, cognitive science, environmental sciences, media studies, and religious studies. Interdisciplinary minor programs are available in creative writing, disability studies, and religious studies. UGIS also sponsors interdisciplinary courses of general interest, such as the courses on Western civilization and ethics. The Letters and Science Discovery Courses, taught by outstanding teachers and explicitly designed to add breadth to the curriculum, are also often interdisciplinary.

Students should consult the Undergraduate Division (301 Campbell Hall, (510) 642-0108) for more information on these programs. See also the interdisciplinary majors and minors listed under International and Area Studies, and the listings for individual colleges.

Environmental Studies at Berkeley

Environmental studies at Berkeley include courses, curricula, research, and public service that cover aspects of sciences and arts, engineering and management, law and policy, and planning and design. Several degree-granting programs specifically emphasize aspects of the environment, and hundreds of courses in other departments apply the principles of those disciplines to issues in the environment. By judiciously selecting courses, students can develop curricula that bridge the boundaries among departments and take advantage of the diverse resources from several programs.

The chart on pages 90-91 identifies the principal degree-granting environmental curricula described in more detail under corresponding headings in this catalog. Further detail is available in the announcements of individual colleges and schools.

International and Area Studies

Berkeley’s international teaching program and centers for research and outreach are part of our rich interdisciplinary and multicultural environment. International issues are the focus of six undergraduate and three graduate interdisciplinary majors offered by the International and Area Studies Teaching Program. Through the undergraduate group majors in Asian studies, development studies, Latin American studies, Middle Eastern studies, peace and conflict studies, and policy studies and research opportunities. For more information about International and Area Studies at Berkeley, contact the IAS Teaching Program Office, 101 Stephens Hall, (510) 642-4466, iastp@berkeley.edu, www.iastp.berkeley.edu, or one of the research centers listed to the right and on page 90.

Environmental Studies at Berkeley

Environmental studies at Berkeley include courses, curricula, research, and public service that cover aspects of sciences and arts, engineering and management, law and policy, and planning and design. Several degree-granting programs specifically emphasize aspects of the environment, and hundreds of courses in other departments apply the principles of those disciplines to issues in the environment. By judiciously selecting courses, students can develop curricula that bridge the boundaries among departments and take advantage of the diverse resources from several programs.

The chart on pages 90-91 identifies the principal degree-granting environmental curricula described in more detail under corresponding headings in this catalog. Further detail is available in the announcements of individual colleges and schools.
Environmental Studies at Berkeley

The majors in the chart below are suggested for students interested in environmental programs and coursework. This list includes basic, applied, planning, design, policy, and integrated environmental science areas at Berkeley. Students with interests in these areas should contact individual departments to determine which programs would best meet their needs.

<table>
<thead>
<tr>
<th>Major</th>
<th>Department</th>
<th>College/School</th>
<th>Undergraduate</th>
<th>Graduate</th>
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<tr>
<td><strong>Interdepartmental Graduate Groups</strong></td>
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<tr>
<td>Energy &amp; Resources Group</td>
<td>Interdepartmental Graduate Groups</td>
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<tr>
<td><strong>College of Chemistry</strong></td>
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<tr>
<td>Chemical Engineering</td>
<td>Chemical Engineering</td>
<td>College of Chemistry</td>
<td>UG</td>
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<tr>
<td>Environmental Technology Concentration</td>
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<td><strong>College of Engineering</strong></td>
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<tr>
<td>Civ. Eng.: Environmental Engineering Emphasis</td>
<td>Civil &amp; Environmental Engineering</td>
<td>College of Engineering</td>
<td>UG</td>
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<td>Civ. &amp; Env. Engineering: Environmental Engineering Program</td>
<td>Civil &amp; Environmental Engineering</td>
<td>College of Engineering</td>
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<td>Civ. Eng.: GeoEngineering Emphasis</td>
<td>Civil &amp; Environmental Engineering</td>
<td>College of Engineering</td>
<td>UG</td>
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<tr>
<td>Civ. &amp; Env. Engineering: GeoEngineering Program</td>
<td>Civil &amp; Environmental Engineering</td>
<td>College of Engineering</td>
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<tr>
<td>Mechanical Engineering: Environmental Engineering Emphasis</td>
<td>Mechanical Engineering</td>
<td>College of Engineering</td>
<td>UG</td>
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<tr>
<td>Mechanical Engineering: Environmental Engineering Program</td>
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<td>College of Engineering</td>
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<td>Environmental Engineering Science</td>
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<td><strong>College of Environmental Design</strong></td>
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<td>Urban Studies</td>
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<td><strong>School of Law</strong></td>
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<td>Law</td>
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<td>Geography</td>
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<tr>
<td>Earth and Planetary Science</td>
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<tr>
<td>Atmospheric Science specialization</td>
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<td>Environmental Earth Science specialization</td>
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<td>Geology specialization</td>
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<td>Geophysics specialization</td>
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<td>Marine Science specialization</td>
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<tr>
<td>Planetary Science</td>
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### Environmental Studies at Berkeley (continued from previous page)

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<th>College/School</th>
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<th>Graduate</th>
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<td>Political Economy</td>
<td>International &amp; Area Studies</td>
<td>College of Letters &amp; Science</td>
<td>UG</td>
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<td>Public Health</td>
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<td>College of Letters &amp; Science</td>
<td>UG</td>
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<tr>
<td>College of Natural Resources</td>
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<tr>
<td>Agriculture &amp; Resource Economics</td>
<td>Agriculture &amp; Resource Economics</td>
<td>College of Natural Resources</td>
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<tr>
<td>Conservation &amp; Resource Studies</td>
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<td>Environmental Economics &amp; Policy</td>
<td>Agriculture &amp; Resource Economics</td>
<td>College of Natural Resources</td>
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<tr>
<td>Environmental Sciences</td>
<td>College of Natural Resources</td>
<td>College of Natural Resources</td>
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<tr>
<td>Environmental Science, Policy &amp; Management</td>
<td>Environmental Science, Policy &amp; Management</td>
<td>College of Natural Resources</td>
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<tr>
<td>Forestry</td>
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<td>Forestry &amp; Natural Resources</td>
<td>Environmental Science, Policy &amp; Management</td>
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<tr>
<td>Genetics &amp; Plant Biology</td>
<td>Plant &amp; Microbial Biology</td>
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<td>Microbial Biology</td>
<td>Plant &amp; Microbial Biology</td>
<td>College of Natural Resources</td>
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<td>Microbiology</td>
<td>Plant &amp; Microbial Biology</td>
<td>College of Natural Resources</td>
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<td>Molecular Toxicology</td>
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<td>College of Natural Resources</td>
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<tr>
<td>Molecular Environmental Biology</td>
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<tr>
<td>Nutritional Science</td>
<td>Nutritional Science &amp; Toxicology</td>
<td>College of Natural Resources</td>
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<td>Plant Biology</td>
<td>Plant &amp; Microbial Biology</td>
<td>College of Natural Resources</td>
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<td>Range Management</td>
<td>Environmental Science, Policy &amp; Management</td>
<td>College of Natural Resources</td>
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<tr>
<td>Society &amp; Environment</td>
<td>Environmental Science, Policy &amp; Management</td>
<td>College of Natural Resources</td>
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<td>School of Public Health</td>
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<tr>
<td>Biostatistics</td>
<td>School of Public Health</td>
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<tr>
<td>Environmental Health Sciences</td>
<td>School of Public Health</td>
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<tr>
<td>Epidemiology</td>
<td>School of Public Health</td>
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</tbody>
</table>

At Berkeley, you begin to understand a lot about different cultures. Last year, as a first-year student, I’d stay up until 3 or 4 in the morning just talking to people. It’s interesting when you hear and learn about other people. That’s what I feel the college experience is, meeting new people and getting to know about their lives.

2nd-year student

**CAL Quiz No. 30**

What trees on campus attended a famous event before traveling to Berkeley?

(Answer on page 525.)
More learning from the ground up

Wildlife, wildfire, soil, timber, rural communities — managing our woodlands looks anything but simple from Berkeley’s venerable forestry classroom in the Sierra. For more than 90 summers, students have had unforgettable experiences learning forest ecology and management at this camp, an example of how real-world fieldwork can be a key component of a Berkeley education.
Key to Symbols

The following symbols are used in the departmental faculty lists in the “Courses and Curricula” section that follows:

* Professor of the Graduate School: An honorific title to recognize emeritus faculty who continue to be active in the graduate teaching and research programs of the department

† Recipient of Distinguished Teaching Award

“Above the Line” and “Below the Line”

The faculty lists of many departments are divided by a short line that separates full members of a department from members affiliated with the department by a “courtesy appointment.” Faculty members whose names appear above the line are full members of the department. Faculty members whose names appear below the line are affiliated with the department but are not members of it.

Organization of “Courses and Curricula” Section

In the following section of the catalog, the colleges and professional schools, departments, interdepartmental groups, special studies, special projects, and other nondepartmental units are listed alphabetically. Introductions to the colleges and schools describe the scope and educational goals of each and list the departments and organizational units within them. Interdepartmental Studies courses are reproduced together under that heading as well as in each sponsoring department. Cross-listed courses (identified with the prefix C) are also listed in each sponsoring department.

Course Listings

Note: Not all of the courses listed in the following section are offered every year. For current information, see the online Schedule of Classes or consult with departmental advisers.

You should carefully note prerequisites for courses.

Courses with double numbers (for example, English 1A-1B) are two-semester sequences that usually begin in the fall semester. Each course in a sequence is normally prerequisite to the one following, and you may normally receive credit for completing the first half of a sequence.

The number in parentheses following the course title indicates the credit value. An abbreviation in parentheses following the course description indicates the semester in which the course is offered: (F) fall, (SP) spring. Semester offerings are subject to change.

Summer session courses are listed separately in the Berkeley Summer Sessions Catalog, except for a few courses that are part of a department’s degree requirements. See summer.berkeley.edu for more information.

Prefixes to Course Numbers

• Course numbers preceded by the letter C indicate that the course is cross-listed with a course in another department—e.g., Italian Studies C103 (a hypothetical example) is identical to a course offered in the Department of French as French C112. The course with which a “C” course is cross-listed is identified at the end of the course description.

• Course numbers preceded by the letter H are special honors courses that may be subject to restrictions imposed by the department.

• Course numbers preceded by the letter R satisfy the Reading and Composition requirement.

Suffixes to Course Numbers

• Course numbers followed by AC satisfy the American Cultures requirement.

Course numbers are assigned as follows:

1-99

Lower division courses, including courses designated by a letter. Open to freshmen and sophomores; not acceptable for upper division credit.

100-199

Upper division courses. You must ordinarily have completed at least one lower division course in the given subject or two years of college work.
98, 99, 197, 198, 199

Special Studies courses. (See limitations listed below. For additional information on 98 and 198 courses, go to education.berkeley.edu/specialstudies.) Effective fall 1983, you may use no more than 16 semester units of courses numbered 98, 99, 197, 198, and 199 to meet requirements for the bachelor's degree. Exceptions to this rule may be granted by the dean of your college or school.

197

Field study (upper division). Courses with this number are restricted to passed/not passed grading. To take them you must have completed 60 units of undergraduate study and be in good academic standing (2.00 GPA or better). Exceptions to these rules may be granted by the dean of your college or school.

98, 99, 198, 199

These courses allow you to pursue study of special topics, in groups or individually, under the direction of a faculty member. You may aggregate no more than 4 units of credit for independent studies or group studies in a single semester.

98

Directed group study by lower division students. Each section of a 98 course must receive approval by the chair of the department, based upon a written proposal submitted by the instructor who is to supervise the course. Only a grade of passed/not passed is to be assigned. The dean of your college or school may authorize exceptions to these limitations.

99

Supervised independent study by academically superior, lower division students. You must have a 3.3 GPA and prior consent of the instructor who is to supervise the study, and you must submit a written proposal to the chair of the department for approval. Only a grade of passed/not passed is to be assigned. The dean of your college or school may authorize exceptions to these limitations.

198

Directed group study (upper division). Each section of a 198 course must receive approval by the chair of the department, based upon a written proposal submitted by the instructor who is to supervise the course. To enroll in 198 courses, you must have completed at least 60 units of undergraduate study and be in good academic standing (2.00 GPA or better). Only a grade of passed/not passed will be assigned. The dean of your college or school may authorize exceptions to these limitations.

199

Supervised independent study (upper division). You must have prior approval of your major adviser, the instructor who is to supervise the study, and the chair of the department. Approval must be based on a written proposal that you submit to the chair. To enroll in 199 courses, you must have completed at least 60 units of undergraduate study and must be in good academic standing (2.00 GPA or better). Only a grade of passed/not passed will be assigned. The dean of your college or school may authorize exceptions to these limitations.

200-299

Graduate courses. Adequate preparation, subject to the instructor’s approval, is normally 12 upper division units of work basic to the subject matter of the course.

300-399

Professional courses for teachers or prospective teachers.

400-499

Professional courses which, like teaching courses, are acceptable toward academic degrees only within the limitations prescribed by the various colleges or schools or the Graduate Division.

601

Special study for graduate students in preparation for the master’s examination.

602

Special study for graduate students in preparation for the doctoral qualifying examination.

Use of Animals in the Instructional Program

Certain courses offered at the University of California, Berkeley require the use of animals, living or preserved, vertebrate or invertebrate, and/or their preserved and/or extracted parts, in the course of instruction. Such animal use is determined judiciously by the instructors of the courses to be necessary and appropriate to the intellectual and technical education of students. All use of animals in teaching and research is approved by the campus Animal Care and Use Committee. It is the responsibility of students to ascertain course requirements before enrollment, and the responsibility of instructors to provide that information clearly and unequivocally. Should the students find enrollment in such courses not appropriate to their interests or beliefs, they should see their advisers to recommend alternative courses, or, if appropriate, alternative majors.
On-site or online, it’s all in Berkeley’s library

Day or night, students are immersed in the collections of UC Berkeley’s library. And no wonder: There are more than 10 million volumes, breathtaking reading rooms, quiet study nooks, and online resources that can be accessed from anywhere. With rare and specialized collections in branches across campus, Berkeley’s is one of the top five university research libraries in North America.