Get ready for Berkeley Engineering

Explore engineering careers with resources to learn which engineering major will be the best fit for you:

- National Academy of Engineering’s Changing the Conversation www.engineeringmessages.org
- Engaging Students in Engineering www.engageengineering.org
- Try Engineering tryengineering.org
- Berkeley Engineering Undergraduate Guide (information about each major) engineering.berkeley.edu/guide
- Berkeley Engineering Departments engineering.berkeley.edu/departments

Increase your understanding of STEM (science, technology, engineering & mathematics) through activities such as:

- Join math, science, computer science or robotics clubs
- Explore Bay Area K-12 STEM opportunities through:
  - YouSTEM for San Francisco Bay Area: youstem.org/main/discover/
  - Bay Area Teen Science: facebook.com/BayAreaTeenScience
  - Bay Area Science Festival: bayareascience.org
  - Lawrence Hall of Science: lawrencehallofscience.org/do_science_now
- Attend programs held annually at UC Berkeley such as:
  - Girls in Engineering Program at Berkeley: gie.berkeley.edu
  - Engineering focused session of the National School Leadership Conference: www.nslcleaders.org
  - Pre-College TRIO Programs: pctrio.berkeley.edu
  - United InnoWorks Academy: innoworks.org
  - Engineering focused session of the National Youth Leadership Forum: envisionexperience.com
- Attend the California State Summer School for Mathematics and Science (COSMOS) held on four UC campuses: cosmos-ucop.ucdavis.edu

Ways to Explore Berkeley Engineering

- “Like” Berkeley Engineering on Facebook: facebook.com/berkeleyengineering
- Follow the college on Twitter: twitter.com/Cal_Engineer
- Learn more about Berkeley Engineering on YouTube: www.youtube.com/user/BerkeleyEngineering
- Participate in the 300+ workshops, presentations, demonstrations, or lab tours at Cal Day, our annual open house held in April: calday.berkeley.edu
- Attend engineering related programs hosted by Science@Cal: scienceatcal.berkeley.edu
Applying to Berkeley Engineering

4 Important Components

1. Become UC eligible by signing up for the right high school classes (15 A-G Courses required with 11 completed prior to the beginning of your senior year):
   - History/Social Science - 2 years
   - English - 4 years
   - Mathematics - 3 years (4 years including Calculus recommended for engineering)
   - Laboratory Science - 2 years (3 years including Physics recommended for engineering)
   - Language other than English - 2 years
   - Visual & Performing Arts - 1 year
   - College Preparatory Elective - 1 year (chosen from the subjects listed above or another course approved by the university)

2. Prepare for and take (by December of senior year):
   - SAT with Essay or ACT plus Writing (one of the two is required)
   - SAT Math Subject Test in Math Level 2 (recommended for engineering)
   - SAT Subject Tests in science - Biology E/M, Chemistry, or Physics (recommended for engineering)

3. Get Involved
   - Become a leader in high school clubs.
   - Start a Young Maker’s Club (makered.org/ youngmakers), Girls Who Code Club (girlwhocode.com) or your own youth-led initiative.
   - Become involved with community service by volunteering with organizations that help your community. Serving society is one of Berkeley Engineering’s three guiding principles!

4. Write compelling responses to the UC Personal Insight Questions for freshmen. Students will choose four of the eight questions to answer. Each response is limited to a maximum of 350 words. All are given equal consideration in the application review process, which means there is no advantage or disadvantage to choosing certain questions over others.
   - Describe an example of your leadership experience in which you have positively influenced others, helped resolve disputes, or contributed to group efforts over time.
   - Every person has a creative side, and it can be expressed in many ways: problem solving, original and innovative thinking, and artistically, to name a few. Describe how you express your creative side.
   - What would you say is your greatest talent or skill? How have you developed and demonstrated that talent over time?
   - Describe how you have taken advantage of a significant educational opportunity or worked to overcome an educational barrier you have faced.
   - Describe the most significant challenge you have faced and the steps you have taken to overcome this challenge. How has this challenge affected your academic achievement?
   - Think about an academic subject that inspires you. Describe how you have furthered this interest inside and/or outside of the classroom.
   - What have you done to make your school or your community a better place?
   - Beyond what has already been shared in your application, what do you believe makes you stand out as a strong candidate for admissions to the University of California?

Hints:
- For more information visit: UC Admissions, admission.universityofcalifornia.edu and UC Berkeley, College of Engineering Admissions, engineering.berkeley.edu/admissions.
- Apply for the Phoenix Scholars Program that pairs UC Berkeley and Stanford students with high school juniors for college application mentoring: phoenixscholars.org.

hints:
- Complete the Free Application for Federal Student Aid (FAFSA) by March 2 of your senior year, studentaid.ed.gov/sa/fafsa.
- Students who are not eligible to file a FAFSA and who qualify for the AB 540 Nonresident Supplemental Tuition exemption should apply for aid by completing the California Dream Act Application by March 2, caldreamact.org.
Applying to the College

1. When can I apply for admission to Berkeley Engineering?
   The annual UC system application period is November 1-30 each year for admission for the following fall semester. Learn more about the application process at www.universityofcalifornia.edu/admissions.

2. Will I be admitted?
   The answer depends upon the quality of the applicant pool and the number of spaces available in the major. Both of these vary from year-to-year which makes it impossible to predict admission.

3. How does Berkeley decide whom to admit?
   The campus selects its freshman class through a comprehensive review of a student’s academic performance as measured primarily by the college preparatory, Advanced Placement (AP), International Baccalaureate Higher Level (IBHL), honors and transferable college courses completed beyond the UC minimum, and the level of achievement in those courses; weighted, uncapped UC GPA and pattern of grades over time; standardized test scores; honors and awards which reflect extraordinary, sustained intellectual or creative achievement; sustained participation in rigorous academic enrichment and outreach programs; and the planned twelfth grade courses. In addition, the review includes an examination of the likely contributions to the intellectual and cultural vitality of the campus; diversity in personal background and experience; qualities such as leadership, motivation, concern for others and for the community; and non-academic achievements in the performing arts or athletics, employment or leadership. Applicants to Berkeley Engineering are also expected to demonstrate interest in the major to which they are applying since we receive far more applicants than we can admit. Consequently, to gain admission to Berkeley, students need to present an academic profile much stronger than that represented by the minimum admission requirements below. It is important to note that no single attribute or characteristic guarantees the admission of any applicant to Berkeley. For additional information about Berkeley’s application and selection process, please see the Be Berkeley (freshman brochure) on the following website: admissions.berkeley.edu/publications.

4. What standardized tests should I take?
   Freshmen must take the ACT plus Writing or the SAT with Essay. Engineering applicants are also strongly encouraged to take the SAT Subject Test in Math Level 2 and at least one SAT Subject Test in science (Biology E/M, Chemistry or Physics) in order to be as competitive as possible.

5. How much math should I take in high school?
   Although a minimum of three years of college preparatory math is required, we strongly recommend completing four years. Since engineering admission is very competitive, applicants must do more than the minimum, particularly in math and science. Exceeding minimum requirements and doing well in these subjects prepares new students for the rigors of university work, especially in engineering.

6. Do I need to complete high school physics?
   A minimum of two years of laboratory science is required for admission. We strongly recommend completing physics even if the minimum has been completed (the usual pattern is biology and chemistry). If admitted to Berkeley, new students must complete college-level physics as part of the lower division requirements for their engineering major. A high school physics background prepares students for university-level physics.

7. Does Berkeley Engineering consider the alternate major on the admission application?
   No. Berkeley Engineering does not consider the alternate major. However, other UCs may.

8. Can I change my major?
   Applicants may change their college and/or major during the November application filing period only by contacting the Office of Undergraduate Admissions no later than November 30. Once admitted to Berkeley, students may only apply to change major after completing at least one semester at Berkeley. There are minimum requirements, including GPA requirements, progress requirements, and coursework requirements in some cases, so students are advised that change of major is not guaranteed.
9. **What is the difference between the Electrical Engineering and Computer Sciences major in the College of Engineering and the Computer Science major in the College of Letters and Science?**

   The lower division requirements for the EECS major offered in the College of Engineering emphasize science and math and lead to a Bachelor of Science degree. Computer science in the College of Letters and Science does not emphasize science and math and leads to a Bachelor of Arts degree. More information about the two computer science majors can be found on the EECS website (eecs.berkeley.edu/academics/undergraduate).

10. **For which AP tests will I receive credit?**

    The College of Engineering awards AP credit for most AP tests. Depending upon the test and score, students will receive UC credit and/or College of Engineering subject credit. More information can be found in the College of Engineering Undergraduate Guide (engineering.berkeley.edu/guide).

11. **If I apply in the fall and plan to take the SATs in January after the application deadline, will review of my application be delayed until my January scores are received?**

    It is crucial that applicants complete all tests no later than the December examination dates of the year in which they apply for admission.

12. **If I am unable to attend the semester for which I am admitted, will Berkeley defer my admission?**

    Admission to Berkeley Engineering is valid only for the term in which the applicant is admitted. However, if there are extenuating circumstances, the applicant may apply for a deferral through the Office of Undergraduate Admissions.

---

**General Undergraduate Program**

1. **How many students are admitted into engineering?**

   For the 2018-2019 academic year there were over 20,300 freshmen applicants to the College of Engineering and 8.5% were admitted.

2. **What is the graduation rate in the College of Engineering?**

   Approximately 94 percent of incoming freshmen graduate from UC Berkeley, and students who began as freshmen are enrolled for an average of 3.9 years.

3. **When will I enroll in classes if admitted to UC Berkeley?**

   New freshmen will complete an online orientation, Golden Bear Advising, in June. As part of Golden Bear Advising, freshmen will be guided in choosing courses for their first semester and will enroll in courses in July.

4. **Can an engineering student pursue a minor?**

   Yes, students may apply to pursue a minor. All of the engineering departments offer minors. Students may also consider pursuing a minor in another school or college. Students who are interested in a minor can get information about the requirements and admission standards from the department offering the minor. For a list of minors in the College of Engineering and links to minors offered in other schools and colleges visit engineering.berkeley.edu/academics/majors-minors/minors.

5. **How much studying is expected in this competitive environment?**

   Students can expect to study at least three hours per week for every class unit they take. Example: 15 class units = 45 hours of study time per week.
6. How long does it take to complete an engineering degree?
Our majors are designed to be completed in four years (eight semesters). Academic advising and our structured four-year plans assist students in graduating on time. Although the College has a four-year graduation policy, there are times when an additional semester may be warranted. Four-year plans for all engineering majors can be found in the College of Engineering Guide: engineering.berkeley.edu/guide.

7. Is it difficult to switch majors within engineering?
Once admitted to Berkeley Engineering, students may only apply to change major after completing at least one semester at Berkeley. There are minimum requirements, including GPA requirements, progress requirements, and coursework requirements in some cases, so students are advised that change of major is not guaranteed.

8. Is it difficult to switch out of engineering?
Students who decide to switch out of the College of Engineering should meet with their assigned Engineering Student Services (ESS) adviser to discuss the process.

9. Is it difficult to get into courses?
Being flexible is the key to getting into courses on the Berkeley campus. Berkeley Engineering students are required to take, at a minimum, two technical courses (math, science, engineering) that fulfill requirements for their major and a total of 12 units. Some of these courses offer several lecture sections along with several sub-sections of discussions and/or labs. With careful planning and some flexibility, students should be able to get into the courses they need. For more information please refer to: registrar.berkeley.edu/registration/enrollment.

10. Can engineering students participate in the Education Abroad Program?
Yes, in fact we encourage our students to study abroad. With careful planning many students can complete a study abroad program without delaying their graduation. However, students who participate in a study abroad program will be granted one additional semester to complete their degree requirements, if needed. Visit the Berkeley Study Abroad website for more information: studyabroad.berkeley.edu.

11. When can engineering students apply for internships or research?
Faculty and companies typically search for students who have completed their first and second year of engineering foundation courses. This means that securing an internship or research is most likely to occur in the junior and senior year or summer. UC Berkeley’s Career Center (career.berkeley.edu) offers job and internship (career.berkeley.edu/Internships/Internships.stm) fairs throughout the academic year. For more information about research opportunities, visit the research websites for the College of Engineering (engineering.berkeley.edu/research/student-research) and Berkeley campus (research.berkeley.edu).

12. What is the job placement rate for engineering students after graduation?
Job prospects are very good for our graduates. Many students who are chosen for internships are hired by those same companies after they graduate. Others find great prospects with the help of job fairs and the campus Career Center (career.berkeley.edu). For additional information, consult the Career Center’s job placement statistics (career.berkeley.edu/Survey/2017Emp).

13. Do I have to major in Bioengineering or a biological science in L&S to get into medical school?
There is no preferred major for medical school. While any undergraduate major is acceptable, the pre-med requirements including chemistry, physics, general biology, and math must be fulfilled. For more information, review the Career Center pre-med information at: career.berkeley.edu/Medical/Medical.
Student Life

1. Will there be time for co-curricular activities?
   Yes, in fact we encourage students to join organizations, participate in recreational sports and pursue outside interests. The College of Engineering offers over 85 different groups and organizations (engineering.berkeley.edu/studentorgs) that students can join, and UC Berkeley has more than 1,000 registered campus-wide student organizations (lead.berkeley.edu/about-student-orgs).

2. Which residence halls (dorms) are closest to engineering?
   The closest residence hall is Foothill, located at 2700 Hearst Avenue. Although Foothill is the nearest residence hall in proximity of the College of Engineering, first-year engineering students will be enrolling in classes located throughout the main campus. More information about housing options can be found at: housing.berkeley.edu.

3. Is the campus safe?
   UC Berkeley has its own police department (ucpd.berkeley.edu/home). Campus police patrol the campus perimeter and interior by car, motorcycle and bicycle. There are also emergency beacons situated around campus to help alert students, faculty and staff to any campus-wide emergencies that may arise. The campus offers nighttime safety services, including shuttles and BearWALK, to the campus community.

4. What kind of computer should students bring?
   In general, students should buy a laptop that is affordable and convenient; there is no particular brand or model that is preferred. For information about software available to Berkeley students, visit Software Central (software.berkeley.edu).

5. What is the parking situation on campus?
   Parking is limited on campus, and all faculty, staff and students must have a campus parking permit displayed in their vehicle at all times while parked in a parking structure or at a residence hall. Students can purchase daily or annual parking permits from the Parking and Transportation office (pt.berkeley.edu/parking/student-permits).

6. What kind of advising services are available to engineering students?
   All College of Engineering students are assigned a faculty adviser, an Engineering Student Services (ESS) adviser and a department adviser. Faculty advisers are mentors and help students select the appropriate courses and opportunities to achieve their post-graduation goals. Students are encouraged to meet with their faculty adviser at least twice a year to discuss course planning and future goals. ESS advisers help students navigate University and College of Engineering policies and procedures, evaluate degree completion, and provide a lifeline for other questions and concerns that students may have during their academic career at Berkeley. Department advisers guide students toward opportunities within their field of study. They provide referrals to student groups relative to the student’s major and handle all aspects of faculty advising, course scheduling, and research opportunities. Peer advisers are also available to answer general questions regarding policy and course requirements during the academic year.

Other Helpful Links
- Cal Housing (housing.berkeley.edu)
- Financial Aid and Scholarships Office (financialaid.berkeley.edu)
- University Health Services (uhs.berkeley.edu)
- Counseling and Psychological Services (uhs.berkeley.edu/counseling)
- Cal Parents (calparents.berkeley.edu)

Still have a question?
Visit Berkeley’s admissions website (admissions.berkeley.edu) for more information on eligibility and the application process. Questions specific to the College of Engineering’s application requirements, curriculum, or student life may be addressed to Engineering Student Services, ess@berkeley.edu.
Engineering Student Services (ESS)
230 Bechtel, (510) 642-7594
eering.berkeley.edu/ess

Bioengineering (BioE)
306 Stanley, (510) 642-5833
bioeng.berkeley.edu
Undergraduate Adviser:
Marisela Loza
mariselal@berkeley.edu
Graduate Adviser:
Kristin Olson
kaolson@berkeley.edu

Civil & Environmental Engineering (CEE)
760 Davis, (510) 642-3261
c.berkeley.edu
Undergraduate Adviser:
Julia Konopasek
konopasek@berkeley.edu
Graduate Adviser:
Shelley Okimoto
okimoto@ce.berkeley.edu

Electrical Engineering & Computer Sciences (EECS)
205 Cory, (510) 642-3214
eecs.berkeley.edu
Undergraduate Advisers:
Nicole McIntyre
nicolemcintyre@eecs.berkeley.edu
Andrea Mejia Valencia
mejiavalencia@eecs.berkeley.edu
Graduate Adviser, 5th year masters:
Michael Sun
msun86@eecs.berkeley.edu
Graduate Adviser, PhD:
Patrick Hernan
hernan@eecs.berkeley.edu

Engineering Science (ES)
(Energy Engineering, Engineering Math & Statistics, Engineering Physics, and Environmental Engineering Science)
750 Davis, (510) 643-1713
engineeringscience.berkeley.edu
Undergraduate Adviser:
Felicia Bautista
fbautista3@berkeley.edu

Financial Aid & Scholarships Office
financialaid.berkeley.edu
120 Sproul Hall
Monday – Thursday: 9am – 4pm

Engineering Science & Engineering (MSE)
210 HMMB, (510) 642-3801
mse.berkeley.edu
Undergrad Adviser:
Mayra De La Cruz
msessa@berkeley.edu
Graduate Adviser:
Ariana Castro
msessa@berkeley.edu

Mechanical Engineering (ME)
6141 Etcheverry, (510) 642-1338
me.berkeley.edu
Undergraduate Adviser:
Ricky Vides
rickyv72@berkeley.edu
Graduate Adviser:
Yawo Dagbevi Akpawu
yawo@me.berkeley.edu

Nuclear Engineering (NE)
4155 Etcheverry, (510) 642-4077
nuc.berkeley.edu
Undergrad & Graduate Adviser:
Kirsten Wimple
Kirstenw@berkeley.edu

Visitors Center
visitors.berkeley.edu
2227 Piedmont Avenue
(510) 642-5215
visitorinfo@berkeley.edu
Monday - Friday: 8:30am - 4:30pm
Saturday - Sunday: 9am - 1pm

Undergraduate Admissions
admissions.berkeley.edu
103 Sproul Hall
Monday - Friday: 9am - Noon, 1 - 4pm
**Myths vs Facts**

Find out more about Berkeley Engineering: engineering.berkeley.edu

---

**Myth:**
“Classes are too big and you don’t get to know your instructors.”

**Fact:**
Large classes have small discussion sections, and all instructors have open office hours weekly.

---

**Myth:**
“There are no undergraduate research opportunities.”

**Fact:**
As a Tier I research institution, we have more undergraduate research opportunities than the average college campus.

---

**Myth:**
“Financial aid is only available for low-income students.”

**Fact:**
Every US Citizen and permanent resident, regardless of family income, is eligible for some form of financial aid. Each year, the college gave out about $450,000 in scholarships.

---

**Myth:**
“I won’t be able to talk to an adviser in person.”

**Fact:**
Academic and peer advisers are available for appointments and drop-in advising every day of the week.

---

**Myth:**
“Engineering students don’t have time to study abroad.”

**Fact:**
COE students are encouraged to study abroad and can find an international program that fits within their academic plans.
Bioengineering
Apply physical sciences and mathematics in an engineering approach to biological systems.
**Major:** bioengineering; **Minor:** bioengineering

Civil and Environmental Engineering
Develop civil infrastructure and protect the environment.
**Major:** civil engineering; **Minors:** environmental engineering; geoengineering; structural engineering

Electrical Engineering and Computer Sciences
Combine the fundamentals of computer science and electrical engineering in one major.
**Major:** electrical engineering and computer sciences
**Minors:** computer science; electrical engineering and computer sciences; electronic intelligent systems

Engineering Science Program
A multidepartment and interdisciplinary program that links closely-related areas of physical and biological sciences, mathematics and engineering.
**Majors:** energy engineering; engineering math and statistics; engineering physics; environmental engineering science
**Minor:** energy engineering

Industrial Engineering and Operations Research
Develop creative analytical and computational methods that make system-level decisions concerning economic efficiency, productivity and quality.
**Major:** industrial engineering and operations research
**Minor:** industrial engineering and operations research

Materials Science and Engineering
Study all natural and manufactured materials that enable new technological breakthroughs and engineering advancements.
**Major:** materials science and engineering
**Minor:** materials science and engineering

Mechanical Engineering
Understand all areas of energy production and transfer as well as the vast area of system design and control.
**Major:** mechanical engineering; **Minor:** mechanical engineering

Nuclear Engineering
Learn about nuclear processes and their role in medical diagnostics, applied research in superconducting magnetic systems and controlling nuclear fission to produce energy.
**Major:** nuclear engineering; **Minor:** nuclear engineering

Joint Majors
Information about changing to a joint major is available on the following website: [engineering.berkeley.edu/jointmajors].
- bioengineering/materials science and engineering
- EECS/materials science and engineering
- EECS/nuclear engineering
- materials science and engineering/mechanical engineering
- materials science and engineering/nuclear engineering
- mechanical engineering/nuclear engineering

Special Programs
Management, Entrepreneurship, & Technology (M.E.T.)
Prospective freshmen may apply directly to this program. In a four-year curriculum, students earn two Bachelor of Science degrees in one program that combines the best of the top-ranked College of Engineering and Haas School of Business. There are currently five tracks in the M.E.T. program:
- Bioengineering (BioE) + Business
- Civil Engineering (CE) + Business
- Electrical Engineering & Computer Sciences (EECS) + Business
- Industrial Engineering & Operations Research (IEOR) + Business
- Mechanical Engineering (ME) + Business
The M.E.T. program is not available to current Berkeley students or incoming transfer students. More information is available at [met.berkeley.edu].

Certificate in Entrepreneurship and Technology
The Sutardja Center for Entrepreneurship & Technology is where aspiring entrepreneurs and innovators take deep dives into the world of technology entrepreneurship and innovation, and continue on the path to developing exciting new ventures. SCET offers a suite of technology entrepreneurship courses and programs that teach the fundamentals of entrepreneurship and help students build the future of new technologies such as blockchain, alternative meat, artificial intelligence, social technology entrepreneurship, and internet and data and privacy. Students can earn a Certificate in Entrepreneurship and Technology by taking the required depth and breadth of SCET courses. Learn more at [scet.berkeley.edu].

Certificate in Design Innovation
The Berkeley Certificate in Design Innovation assumes that innovation will not come from any one discipline, but rather from the meaningful integration of methods, technologies, knowledge, and thought from a wide range of disciplines. As such, the certificate connects the design approaches and disciplines from four schools (College of Engineering, College of Environmental Design, College of Letters and Science – Arts and Humanities Division, and the Haas School of Business) to ensure that students know how to innovate. The program trains students to take responsibility for the entire life cycle of innovation, from idea to execution and beyond. The course sequence for the certificate consists of four courses: one foundation, two design skills, and one advanced design. More information is available at [designinnovationcertificate.berkeley.edu].

Other Engineering and Engineering-Related Majors at Cal:
**College of Chemistry:**
Chemical Engineering; Chemical Engineering/Materials Science & Engineering; Chemical Engineering/Nuclear Engineering

**College of Letter and Sciences:**
Computer Science; Operations Research & Management
Advanced Placement

Humanities/Social Sciences Requirement
A score of 3 or higher on the following exams may be used to satisfy one H/SS requirement each.

- Art, Studio (2D Design, 3D Design, Drawing)
- Art History
- Chinese Language and Culture
- Economics (Micro or Macro)
- French Language and Culture
- German Language and Culture
- Government and Politics (US or Comparative)
- History (US, European, or World)
- Human Geography
- Italian Language and Culture
- Japanese Language and Culture
- Latin
- Music Theory
- Psychology
- Spanish Language and Culture
- Spanish Literature and Culture

College & Major Requirements
The following exams may be used to satisfy requirements within College of Engineering majors:

<table>
<thead>
<tr>
<th>Exam</th>
<th>Requirement fulfilled</th>
<th>Required Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>Biology 1A/1AL and Biology 1B</td>
<td>4 or 5</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Chemistry 1A/1AL</td>
<td>3 or higher</td>
</tr>
<tr>
<td>Computer Science Principles</td>
<td>Computer Science 10</td>
<td>3 or higher</td>
</tr>
<tr>
<td>English</td>
<td>Entry Level Writing requirement</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Reading &amp; Composition A</td>
<td>4 or 5</td>
</tr>
<tr>
<td>Mathematics: Calculus AB</td>
<td>Math 1A</td>
<td>3 or higher</td>
</tr>
<tr>
<td>Mathematics Calculus BC</td>
<td>Math 1A</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Math 1A and 1B</td>
<td>4 or 5</td>
</tr>
<tr>
<td>Physics C Mechanics</td>
<td>Physics 7A</td>
<td>5</td>
</tr>
</tbody>
</table>

University Credit
A score of 3 or higher on the following exams may be used to receive UC Berkeley unit credit but cannot be used to fulfill a requirement.

- Computer Science A
- Environmental Science
- Physics C Mechanics (score of 3 or 4)
- Physics B
- Physics 1
- Physics 2
- Statistics
International Baccalaureate Higher Level Exams

Humanities/Social Sciences Requirement
A score of 5 or higher on the following exams may be used to satisfy one H/SS requirement each.

- Anthropology
- Dance
- Economics
- Film
- Geography
- Global Politics
- History
- Language other than English
- Music
- Philosophy
- Psychology
- Theater Arts, Visual Arts

College & Major Requirements
A score of 5 or higher on the following exams may be used to satisfy requirements within College of Engineering majors:

<table>
<thead>
<tr>
<th>Exam</th>
<th>Requirement fulfilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>Biology 1A/1AL and Biology 1B</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Chemistry 1A/1AL</td>
</tr>
<tr>
<td>Computer Science</td>
<td>Computer Science 61B (if CS47B completed at UC Berkeley)</td>
</tr>
<tr>
<td>English Literature</td>
<td>Entry Level Writing/Reading &amp; Composition A</td>
</tr>
<tr>
<td>English Language and Literature</td>
<td>Entry Level Writing/Reading &amp; Composition A</td>
</tr>
<tr>
<td>Math</td>
<td>Math 1A and 1B</td>
</tr>
</tbody>
</table>

A score of 5 or higher on the Physics exam may be used to receive UC Berkeley unit credit.

A-Level Exams

Humanities/Social Sciences Requirement
A score of A, B, or C on the following exams may be used to satisfy one H/SS requirement each.

- Art & Design
- Classical Studies
- Economics
- History
- Language other than English
- Media Studies
- Music
- Psychology
- Religious Studies, all
- Sociology

College & Major Requirements
A score of A, B, or C on the following exams may be used to satisfy requirements within College of Engineering majors:

<table>
<thead>
<tr>
<th>Exam</th>
<th>Requirement fulfilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>Biology 1A/1AL and Biology 1B</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Chemistry 1A/1AL (score of A also satisfies 1B)</td>
</tr>
<tr>
<td>Computer Science</td>
<td>Computer Science 61B (if programming language is C or C++)</td>
</tr>
<tr>
<td>Math H1</td>
<td>Math 1A</td>
</tr>
<tr>
<td>Math H2</td>
<td>Math 1A and 1B</td>
</tr>
<tr>
<td>Math H3</td>
<td>Math 1A and 1B</td>
</tr>
<tr>
<td>Pure Math</td>
<td>Math 1A and 1B</td>
</tr>
<tr>
<td>Further Math</td>
<td>Math 1A and 1B</td>
</tr>
</tbody>
</table>

A score of A, B, or C on Accounting, English (Language or Literature), or Physics may be used to receive UC Berkeley unit credit.
Much of what makes Berkeley Engineering unique is the abundance of ways our students can learn and grow. Each of the activities below offers unique opportunities to integrate material learned in the classroom with a chance to develop character and leadership skills. National research has shown that students who are involved outside the classroom have higher GPAs, are more satisfied with their college experience, develop valuable leadership and interpersonal skills, manage their time better, and hone marketable skills sought by employers (e.g., teamwork, creativity, time management).

- **85+ Engineering Student Organizations and Competition Teams**
  [engineering.berkeley.edu/studentorgs](http://engineering.berkeley.edu/studentorgs)

- **Leadership and Professional Development Programs**
  [engineering.berkeley.edu/leadership](http://engineering.berkeley.edu/leadership)

- **Undergraduate Research**
  [engineering.berkeley.edu/student-research](http://engineering.berkeley.edu/student-research)

- **Summer Industry Internships**
  [career.berkeley.edu](http://career.berkeley.edu)
CFÉS ON THE NORTHSIDE
Need a cuppa to jump-start the brain? Check out engineering. berkeley.edu/cafes for some convenient on-campus options.