INTRODUCTION TO THE MAJOR

The Chemical Engineering major equips students for professional work in development, design, and operation of chemical processes and of process equipment, as well as preparing students for graduate study. The program incorporates both breadth requirements and a technical curriculum to ensure that students develop a foundation in engineering and science along with developing the skills to write clearly, persuasively, and read critically and effectively.

Students go on to careers of leadership and innovation in chemical engineering and related fields, and expand the base of engineering knowledge through original research and creating new technologies that can benefit the public. The program is accredited by the Engineering Accreditation Commission of ABET.

STUDY OPTIONS

Students can pursue a concentration in biotechnology, chemical processing, environmental technology, materials science and technology, applied physical science, and business and management. Students can also choose to pursue a joint major with the College of Engineering in Materials Science or Nuclear Engineering, or a simultaneous degree in Business Administration through the Haas School of Business.

AMPLIFY YOUR MAJOR

- Apply to the Chemical and Chemical Engineering Scholars Program to be an Undergraduate Student Instructor.
- Join a ChemE student organization such as AICHE, Aurum Cosmetics, Biofuels Technology Club, or ChemE Car.
- Present your research at the College of Chemistry poster session in April.
- Apply to the CBE Innovation Incubator, a lab to conduct student-directed projects.

Chemical engineering allows you to craft elegant solutions to seemingly unsolvable problems—the program and faculty will transform you.

– Aditya Nandy, recent graduate

HOW TO USE THIS MAP

Use this map to help plan and guide your experience at UC Berkeley, including academic, co-curricular, and discovery opportunities. Everyone's Berkeley experience is different and activities in this map are suggestions. Always consult with your advisors whenever possible for new opportunities and updates.

ADVISING

Staff advisors are located in 121 Gilman Hall and are available to assist with schedule planning, course enrollment, study abroad, and other academic matters.

Faculty mentors are available to talk with you about career planning, research, internships, graduate school, and many other questions related to becoming a scientist.

Visit chemistry.berkeley.edu/ugrad/current-students/advisers to find your staff advisor and faculty mentor, and to book an appointment.

CONNECT WITH US

Cal Day
Come to UC Berkeley’s annual Open House in April for information sessions, campus tours, special talks, and more.

Golden Bear Orientation
Join your peers in the campus-wide UC Berkeley orientation program for all new students.

Events
Attend department events with students, faculty, and staff. Visit chemistry.berkeley.edu for news and updates.

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# CHEMICAL ENGINEERING

## Bachelor of Science

### WHAT CAN I DO WITH MY MAJOR?

- **Jobs and Employers**
  - Applications Engineer, KLA-Tencor
  - Associate Analyst, ZS Associates
  - Consultant, IBM Corp
  - Engineer, ExxonMobil
  - Lab Technician, Full Cycle Bioprocesses
  - Process Engineer, Abaxis
  - R&D Process Engineer, PLANETPV
  - Research Assistant, Zymagen

- **Graduate Programs**
  - BioPhysics, PhD
  - Chemical Engineering, PhD
  - Materials Engineering, PhD
  - Physical & Theoretical Chem, PhD

### DESIGN YOUR JOURNEY

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>SECOND YEAR</th>
<th>THIRD YEAR</th>
<th>FOURTH YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explore your major</strong></td>
<td><strong>Connect and build community</strong></td>
<td><strong>Discover your passions</strong></td>
<td><strong>Engage locally and globally</strong></td>
</tr>
<tr>
<td>Meet with your <strong>staff advisor</strong> to discuss your academic plans.</td>
<td>Visit peer tutors in Bixby Commons for help with chemistry, math, physics, and other classes.</td>
<td>Talk to your <strong>faculty advisor</strong> about research, internships, careers, and graduate school.</td>
<td>Visit the <strong>Career Center and Career Counseling Library</strong>.</td>
</tr>
<tr>
<td>Familiarize yourself with <strong>major and college requirements</strong>.</td>
<td>Find study groups, tutoring, and academic support at the <strong>Student Learning Center</strong>.</td>
<td>Explore research opportunities in ChemE.</td>
<td>Check out the Career Center <strong>Yearly Planner</strong>.</td>
</tr>
<tr>
<td>Learn about undergraduate student services from the college.</td>
<td>Get help from <strong>peer advisors</strong> in 121 Gilman Hall.</td>
<td>Join a College of Chemistry <strong>student organization such as: AICHE, Aurum Cosmetics, Biofuels Technology club, or ChemE Car.</strong></td>
<td>Sign up for <strong>Handshake and CareerMail</strong>.</td>
</tr>
<tr>
<td><strong>Talk to peer advisors about life in the major.</strong></td>
<td>Explore the college’s centers &amp; institutes.</td>
<td>Explore career in education while gaining teaching skills with <strong>CalTeach</strong>.</td>
<td>Learn about chemical engineering as a profession and explore career resources on the <strong>College of Chemistry website</strong>.</td>
</tr>
<tr>
<td><strong>Complete lower division prerequisites and start planning your upper division courses.</strong></td>
<td>Attend college seminars and events to learn about new research and meet guest speakers.</td>
<td>Experience life at another UC or college on a <strong>gap year</strong> after graduation.</td>
<td><strong>Meet with a career counselor</strong> to discuss your career options and goals.</td>
</tr>
<tr>
<td><strong>Review the college guidelines for study abroad.</strong></td>
<td>Give back by becoming a <strong>peer advisor</strong> or <strong>peer tutor</strong> in the college.</td>
<td>Keep pursuing your interests through a <strong>summer minor course thread</strong>, <strong>certificate</strong>, or <strong>fellowship</strong>.</td>
<td><strong>Conduct informational interviews</strong>.</td>
</tr>
<tr>
<td>**Join a College of Chemistry <strong>student organization such as: AICHE, Aurum Cosmetics, Biofuels Technology club, or ChemE Car.</strong></td>
<td>Welcome new students to UC Berkeley as a <strong>Golden Bear Orientation Leader</strong>.</td>
<td><strong>Apply to the CBE Innovation Incubator</strong>.</td>
<td><strong>Discuss post-graduate options with advisors and professors.</strong></td>
</tr>
<tr>
<td><strong>Explore the college’s centers &amp; institutes.</strong></td>
<td>Get to know professors and graduate student instructors during their office hours.</td>
<td><strong>Apply to the CBE Innovation Incubator, a lab to conduct student-directed projects.</strong></td>
<td><strong>Attend career and graduate school fairs such as the STEM Career &amp; Internship Fair.</strong></td>
</tr>
<tr>
<td><strong>Attend college seminars and events to learn about new research and meet guest speakers.</strong></td>
<td><strong>Join a professional organization related to your interests, such as Alpha Chi Sigma</strong>.</td>
<td><strong>Conduct informational interviews</strong>.</td>
<td><strong>Attend career and graduate school fairs such as the STEM Career &amp; Internship Fair.</strong></td>
</tr>
<tr>
<td><strong>Give back by becoming a <strong>peer advisor</strong> or <strong>peer tutor</strong> in the college.</strong></td>
<td><strong>Connect with alumni groups and build your network as you prepare to graduate.</strong></td>
<td><strong>Utilize job search tools from the Career Center.</strong></td>
<td><strong>Meet employers at Employer Info Sessions and On-Campus Recruiting.</strong></td>
</tr>
<tr>
<td><strong>Complete lower division prerequisites and start planning your upper division courses.</strong></td>
<td><strong>Proactively seek career and graduate school fairs to discuss your career options and goals.</strong></td>
<td><strong>Ask professors and graduate student instructors for recommendation letters.</strong></td>
<td><strong>Apply to jobs, graduate school, and other opportunities.</strong></td>
</tr>
<tr>
<td><strong>Review the college guidelines for study abroad.</strong></td>
<td><strong>Complete any “bucket list” courses and finish remaining major, college, and campus requirements.</strong></td>
<td><strong>Join Career and Internship Fair.</strong></td>
<td><strong>Consider a gap year or alternative break program.</strong></td>
</tr>
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<td>**Join a College of Chemistry <strong>student organization such as: AICHE, Aurum Cosmetics, Biofuels Technology club, or ChemE Car.</strong></td>
<td><strong>Complement your major with a certificate, course thread, or summer minor.</strong></td>
<td><strong>Hone your leadership skills with the Peter E. Haas Public Service Leaders program.</strong></td>
<td><strong>Explore service opportunities after graduation, such as Peace Corps, Teach for America, or U.S. Department of State.</strong></td>
</tr>
</tbody>
</table>

### Update Last: 071520

Examples gathered from the First Destination Survey of recent Berkeley graduates.