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.

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.

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 Chemistry 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

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.

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.

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# DESIGN YOUR JOURNEY

## CHEMICAL ENGINEERING

Bachelor of Science

### DESIGN YOUR JOURNEY

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>SECOND YEAR</th>
<th>THIRD YEAR</th>
<th>FOURTH YEAR</th>
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</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>
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<tr>
<td>Meet with your staff advisor to discuss your academic plans.</td>
<td>Complete lower division prerequisites and start planning your upper division courses.</td>
<td>Focus on upper division requirements. Review your degree progress with your staff advisor.</td>
<td>Do a degree check to ensure you are on track to graduate. Complete any &quot;bucket list&quot; courses and finish remaining major, college, and campus requirements.</td>
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<tr>
<td>Familiarize yourself with major and college requirements.</td>
<td>Review the college guidelines for study abroad.</td>
<td>Declare a concentration to give more focus to your upper division coursework. Ask the staff advisor about the college honors programs.</td>
<td>Complement your major with a certificate, course thread, or summer minor.</td>
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<td>Learn about undergraduate student services from the college. Talk to peer advisors about life in the major.</td>
<td>Join a College of Chemistry student organization such as AIChE, AICHE, Aurora, Cosmetics, Biofuels Technology club, or ChemE Car. Explore the college's centers &amp; institutes. Attend college seminars and events to learn about new research and meet guest speakers.</td>
<td>Become an apprentice instructor, mentor, or an Undergraduate Student Instructor through the Chemistry Undergraduate Teacher Scholar Program or the Chemistry and Chemical Engineering Scholars Program.</td>
<td>Join a professional organization related to your interests, such as Alpha Chi Sigma.</td>
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<td><strong>WHAT CAN I DO WITH MY MAJOR?</strong></td>
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<tr>
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<td>Graduation Programs</td>
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### 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 Bioplastics Process Engineer, Abaxis
- R&D Process Engineer, PLANET/Research Assistant, Zymogen

#### Graduation Programs
- BioPhysics, PhD
- Chemical Engineering, PhD
- Materials Engineering, PhD
- Physical & Theoretical Chem, PhD

### Reflect and plan your future

- Visit the Career Center and Career Counseling Library
- Check out the Career Center Yearly Planner
- Sign up for Handshake and CareerMail
- Learn about chemical engineering as a profession and explore career resources on the College of Chemistry website

- Meet with a career counselor to discuss your career options and goals.
- Explore career fields through the Career Connections Series or a winter externship.
- Learn about graduate and professional school. See Step-by-Step for planning help.
- Think about doing an internship and attend an internship fair.

- Conduct informational interviews.
- Discuss post-graduate options with advisors and professors.
- Attend career and graduate school fairs such as the STEM Career & Internship Fair.
- Join industry information sessions hosted by the CBE Department or affiliated clubs.

- Utilize job search tools from the Career Center.
- Ask professors and graduate student instructors for recommendation letters.
- Meet employers at Employer Info Sessions and On-Campus Recruiting.
- Apply to jobs, graduate school, and other opportunities.

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

### Updated Last: 07/12/20