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.

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

— Aditya Nandy, recent graduate

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**

**Bachelor of Science**

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**DESIGN YOUR JOURNEY**

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**SECOND YEAR**

**Explore your major**
- Meet with your staff advisor to discuss your academic plans.
- Familiarize yourself with major and college requirements.
- Learn about undergraduate student services from the college.
- Talk to peer advisors about life in the major.

**Connect and build community**
- Visit peer tutors in Biddle Commons for help with chemistry, math, physics, and other classes.
- Find study groups, tutoring, and academic support at the Student Learning Center.
- Get help from peer advisors in 121 Gilman Hall.
- Join the College of Chemistry group on LinkedIn.

**Discover your passions**
- Talk to your faculty mentor about research, internships, careers, and graduate school.
- Explore research opportunities in ChemE.
- Visit the Office of Undergraduate Research and Scholarships.
- Discover new interests in a Freshman Seminar or student-run DeCal course.

**Engage locally and globally**
- Attend the Calapalooza student activities fair and get involved with a student organization.
- Find service opportunities through the Public Service Center.
- Explore study, internship, and research abroad options with Berkeley Study Abroad.

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**THIRD YEAR**

**Explore your major**
- Complete lower division prerequisites and start planning your upper division courses.
- Review the college guidelines for study abroad.
- Interested in Haas? Ask the staff advisor about the Chemistry + Business Degree.

**Connect and build community**
- Join a College of Chemistry student organization such as AICHE, Aurora Caroms, or ChemE Club.
- Explore the college’s centers & institutes.
- Attend college seminars and events to learn about new research and meet guest speakers.

**Discover your passions**
- Browse the faculty research taking place in the college and talk to faculty about research opportunities for students.
- Apply to a REU research program.
- Check Berkeley Lab and UCSF for more options.
- Explore a career in education while gaining teaching skills with CalTeach.

**Engage locally and globally**
- 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.
- Apply to the CBE Innovation Incubator, a lab to conduct student-directed projects.

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**FOURTH YEAR**

**Explore your major**
- Focus on upper division requirements.
- Review your degree progress with your staff advisor.
- Declare a concentration to give more focus to your upper division coursework.
- Ask the staff advisor about the college honors programs.

**Connect and build community**
- Give back by becoming a peer advisor or peer tutor in the college.
- Welcome new students to UC Berkeley as a Golden Bear Orientation Leader.
- Get to know professors and graduate student instructors during their office hours.

**Discover your passions**
- Apply for a Conference Travel Grant.
- Teach your own DeCal course.
- Keep pursuing your interests through a fellowship or gap year after graduation.
- Present your research at the College of Chemistry poster session in April.

**Engage locally and globally**
- Experience life at another UC or college on a visitor and exchange program.
- Study and intern in Washington D.C. with UCDC or Cal in the Capital.
- Hone your leadership skills with the Peter E. Haas Public Service Leaders program.
- Explore service opportunities after graduation, such as Peace Corps, Teach for America, or U.S. Department of State.

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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, Aaxis
- R&D Process Engineer, PLANTPV
- Research Assistant, Zymogen

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

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Examples gathered from the Career Destinations Survey of recent Berkeley graduates.