



Photo credit: College of Chemistry

## 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.

Visit [ue.berkeley.edu/majormaps](https://ue.berkeley.edu/majormaps) for the latest version of this major map.

## 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](https://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](https://chemistry.berkeley.edu/ugrad/current-students/advisers) to find your staff advisor and faculty mentor, and to book an appointment.

# CHEMISTRY | CHEMICAL BIOLOGY

Bachelor of Science/Arts

Bachelor of Science

**Berkeley**  
UNIVERSITY OF CALIFORNIA

## INTRODUCTION TO THE MAJOR

UC Berkeley offers two bachelor degrees in **Chemistry**: a Bachelor of Science (BS) through the College of Chemistry and a Bachelor of Arts (BA) through the College of Letters and Science. The College of Chemistry also offers a BS degree in **Chemical Biology**.

Students in both BS programs develop a strong foundation in experimental processes, instrumentation, and quantitative analysis; acquire a strong foundation in math and physics; and may also choose to pursue the Materials Chemistry concentration.

The BA program includes a greater number of humanities and social science courses than the BS degrees. Students who wish to pursue the BA degree should apply for admission to the College of Letters & Science.



Photo credit: College of Chemistry

“ Having the opportunity to study chemistry at Cal is a wonderful educational experience....I am surrounded by a community of talented professors and classmates who really challenge you to think critically about today's scientific problems. ”

– Jesus Aguilar

## WHICH DEGREE IS RIGHT FOR ME?

The Bachelor of Science (BS) degrees in Chemistry and Chemical Biology are intended for students who are primarily interested in careers as professional chemists or wish a thorough grounding in chemistry in preparation for professional or graduate school in chemistry and related disciplines.

The Bachelor of Arts (BA) in Chemistry is intended for students interested in careers in teaching, medicine, or other sciences in which a basic understanding of chemical processes is necessary. Students interested in subsequent graduate studies in chemistry will receive better preparation by pursuing the BS in Chemistry.

## AMPLIFY YOUR MAJOR

- Apply to the **Chemistry Scholars Program** to be an Undergraduate Student Instructor.
- Apply to the **CBE Innovation Incubator**, a lab to conduct student-directed projects.
- Join **Alpha Chi Sigma** and connect with peers, attend tutoring sessions, and outreach with local primary schools.

**Berkeley**

**College of Chemistry Undergraduate Student Services**

121 Gilman Hall

Berkeley, CA 94720-1460

[chemistry.berkeley.edu/ugrad/student-services](https://chemistry.berkeley.edu/ugrad/student-services)

# CHEMISTRY | CHEMICAL BIOLOGY

Bachelor of Science / Arts

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## DESIGN YOUR JOURNEY

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	FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR	WHAT CAN I DO WITH MY MAJOR?
<b>Explore</b> your major	Meet with your <b>staff advisor</b> to discuss your academic plans. Familiarize yourself with <b>major and college requirements</b> . Browse <b>undergraduate student services</b> in the college. Talk to <b>peer advisors</b> about life in the major.	Complete lower division prerequisites and start planning your upper division courses. Review the college guidelines for <b>study abroad</b> .	Focus on upper division requirements. Review your degree progress with your <b>staff advisor</b> . For the Chemistry BS, consider adding a concentration. Ask the staff advisor about the <b>college honors programs</b> .	Do a degree check to ensure you are on track to graduate. Complete any “bucket list” courses and finish remaining major, college, and campus requirements. Complement your major with a <b>certificate, course thread, or summer minor</b> .	<b>Jobs and Employers</b>  Analyst, BlackRock Analytical Operations, Genentech Associate, D.E. Shaw Research Chemist, Argonne National Lab Research Assoc., Latitude Pharm. Chemist, Metal Surfaces Inc. Lab Technician, Quest Diagnostics Synthetic Chemist Intern, US DOE Research Technician, Univ. of Chicago Scientist, LogicInk Corporation
<b>Connect</b> and build community	Join a College of Chemistry <b>student organization</b> . Visit peer tutors in <b>Bixby Commons</b> for help with chemistry, math, and physics. Get help from <b>peer advisors</b> in 121 Gilman Hall. Join the <b>College of Chemistry group</b> on LinkedIn.	Join a professional organization related to your interests, such as <b>Alpha Chi Sigma</b> . Explore the college’s <b>centers &amp; institutes</b> . Attend college <b>seminars and events</b> to learn about new research and meet guest speakers. Get to know professors and graduate student instructors during their office hours.	Become a <b>peer advisor</b> or <b>tutor</b> in the college. Welcome new students to UC Berkeley as a <b>Golden Bear Orientation Leader</b> . Apply to the <b>Chemistry Undergraduate Teacher Scholar Program</b> to become an apprentice instructor and mentor.	Apply to be a Chem Scholar discussion leader. Connect with <b>alumni groups</b> and build your <b>network</b> as you prepare to graduate. Join a professional association such as the <b>American Association for Clinical Chemistry</b> or <b>American Chemical Society</b> .	<b>Graduate Programs</b>  Analytical Chemistry, PhD Atmospheric Sciences, PhD Biochemistry, PhD Biophysics, PhD Chemical Physics, PhD Chemistry, PhD Inorganic Chemistry, PhD Law, JD Legal Studies, Masters Materials Science, PhD Medicine, DDS, MD Neurobiology and Neurophysics, PhD Nursing, Masters Organic Chemistry, PhD Pharmacology, PhD Pharmacy, PharmD Physical & Theoretical Chem., PhD Toxicology, PhD
<b>Discover</b> your passions	Talk to a faculty member about research, internships, careers, and graduate school. Browse the <b>faculty research</b> taking place in the college. Explore <b>research opportunities</b> in Chemistry. Discover new interests in a <b>Freshman Seminar</b> or student-run <b>DeCal course</b> .	Join a faculty research group. Attend the Undergraduate Research and Scholarship Fair in October. Apply to a <b>REU undergraduate research program</b> . Check Berkeley Lab and UCSF for more options. Explore a career in education with <b>CalTeach</b> .	Apply to be an Undergraduate Student Instructor with the <b>Chemistry and Chemical Engineering Scholars Program</b> . Join a faculty research group if you haven’t already. Present your research at the College of Chemistry poster session in April.	Apply for a <b>Conference Travel Grant</b> . Teach your own <b>DeCal course</b> . Keep pursuing your interests through a <b>fellowship</b> or gap year after graduation. Present your research at the College of Chemistry poster session if you haven’t already.	
<b>Engage</b> locally and globally	Attend the <b>Calapalooza</b> student activities fair and get involved with a student organization. Find service opportunities through the <b>Public Service Center</b> . Explore study, internship, and research abroad options with <b>Berkeley Study Abroad</b> .	Work with a community organization in an <b>American Cultures Engaged Scholarship course</b> . Go on a service-learning trip with the <b>Alternative Breaks Program</b> . Consider a <b>Berkeley Global Internship</b> in the United States or abroad.	Experience life at another UC or college on a <b>visitor and exchange program</b> . Study and intern in Washington D.C. with <b>UCDC</b> or <b>Cal in the Capital</b> . Bring STEM-themed programming to local schools through <b>BEAM</b> . Join <b>BASIS</b> and present science in K-8 schools.	Hone your leadership skills with the <b>Peter E. Haas Public Service Leaders program</b> . Explore service opportunities after graduation, such as <b>Peace Corps, Teach for America, or U.S. Department of State</b> .	
<b>Reflect</b> and plan your future	Visit <b>Berkeley Career Engagement</b> and the <b>Career Counseling Library</b> . Develop a plan for getting career ready. Sign up for <b>Handshake</b> and <b>CareerMail</b> . Read about chemistry as a profession and explore career resources on the <b>College of Chemistry website</b> .	Discuss career options and goals with a <b>Career Educator</b> . Explore <b>career fields</b> through the <b>Career Connections Series</b> or a <b>winter externship</b> . Learn about <b>graduate and professional school</b> . See <b>Step-by-Step</b> for planning help. Think about doing an <b>internship</b> and attend an <b>internship fair</b> .	Conduct <b>informational interviews</b> . Discuss graduate school options with advisors and professors. Update your resume and <b>LinkedIn</b> profile. Attend <b>career and graduate school fairs</b> such as the STEM Career & Internship Fair.	Utilize <b>job board tools</b> in your job search. Ask professors and graduate student instructors for recommendation letters. Meet employers at <b>Employer Info Sessions</b> and <b>On-Campus Recruiting</b> . Apply to jobs, graduate school, and other opportunities.	Examples gathered from the <b>First Destination Survey</b> of recent Berkeley graduates.