



Major Description

The major in Chemistry is elected by students planning careers in the chemical sciences and frequently also by those whose interests lie in biology, medicine, earth sciences, secondary education, business and law. The curriculum of the department is designed to satisfy the diverse needs of these students and others who may have occasion to study chemistry. The Chemistry Department offers the concentration in biochemistry and concentration in chemistry education, as well as the American Chemical Society Certification.

Starting Your Chemistry Degree

Lower-Division Major Requirements in Chemistry

From UC's perspective, community college is where you begin working on the first two years of your bachelor's degree. This includes taking lower-division coursework specifically related to your field of study that may be applied toward graduation in your major.

Listed below are the lower-division requirements for **Chemistry, B.S.** that may be satisfied with approved community college courses unless otherwise noted. To find out which of these requirements are shared by other UC campuses, see the UC Statewide Transfer Preparation Path in Chemistry.

- General Chemistry (full sequence)
- Organic Chemistry (full sequence)
- Calculus (full sequence)
- Multivariable Calculus
- Calculus-based Physics (full sequence)
- Quantitative Analysis
- Scientific Computing Skills

Additional Requirements for **Chemistry, B.S. American Chemical Society Certification**

- Linear Algebra
- Biochemistry

Additional Requirements for **Chemistry, B.S. Concentration in Biochemistry**

- Biochemistry
- Genetics
- Molecular Biology

!!! IMPORTANT !!!

All of these requirements do not necessarily have to be completed **before** you transfer. See the next section of this path for what you must do to be competitive for admission.

FIND YOUR COURSES

Every course at your community college that can be used to meet any of the lower-division major requirements is listed at www.assist.org

Additional Requirements for **Chemistry, B.S. Concentration in Chemical Education**

- Introduction to Science and Mathematics Teaching

Becoming Competitive for Admission to Chemistry

Selection Requirements

Important information on selection requirements for admission to the major, including what this campus advises applicants to complete—and by when and with what GPA—is outlined below. It is important to note that meeting these requirements does not necessarily guarantee admission to the campus or major. The stronger your major preparation, the more competitive you will be.

- You **must** complete Calculus (full sequence) and General Chemistry (full sequence) prior to transfer.
- You **must** have an overall GPA of 2.8 in all UC-transferable courses and a GPA of 3.0 in required courses.
- You are advised to complete Quantitative Analysis and Scientific Computing Skills during the summer prior to transfer or during your first quarter at UCI.

Satisfying General Education in Chemistry

General Education Requirements

While all UC campuses urge you to focus on your lower-division major requirements while in community college, it is important to remember that general education (GE), or “breadth,” requirements for your bachelor’s degree may also be met with approved community college courses. In fact, some majors require completion of lower-division GE coursework as part of your preparation prior to transfer. The good news is you may be able to double-count some of your lower-division major coursework for related GE requirements.

The Intersegmental General Education Transfer Curriculum (IGETC) is a series of courses at California community colleges that students may complete to satisfy GE requirements. Certain students, however, may not be well served by following this GE option. Specific information about satisfying GE requirements as a Chemistry major is listed below.

- You are advised to satisfy GE requirements with IGETC.

Related Majors

Preparation for the following majors may be similar to the Chemistry major described above (consult the campus catalog and www.assist.org).

- Biochemistry and Molecular Biology, B.S.
- Chemical Engineering, B.S.