

## DEGREE PROGRAMS

These are only samples; students will determine their specific programs with their advisors.

### B.S. degree in Chemistry

#### Lower-division requirements (71-72 units)

CHEM 001A, CHEM 001B, CHEM 001C, CHEM 01LA, CHEM 01LB, CHEM 01LC (or CHEM 01HA and CHEM 1HLA, CHEM 01HB and CHEM 1HLB, CHEM 01HC and CHEM 1HLC), CHEM 005, CHEM 008A and CHEM 08LA, CHEM 008B and CHEM 08LB, CHEM 008C and CHEM 08LC (or CHEM 08HA and CHEM 8HLA, CHEM 08HB and CHEM 8HLB, CHEM 08HC and CHEM 8HLC)

MATH 009A, MATH 009B, MATH 009C, and three out of the following: MATH 010A, MATH 010B, MATH 031, MATH 046

PHYS 040A, PHYS 040B, PHYS 040C

#### Upper-division requirements (41-43 units)

CHEM 110A, CHEM 110B, CHEM 111, CHEM 113, CHEM 125, CHEM 150A, CHEM 191

Two laboratory courses from CHEM 114 or CHEM 140, CHEM 166, BCH 162

One course from BCH 100, BCH 110A, CHEM 143

One 4-unit course from CHEM 135/ENSC 135/ENTX 135, CHEM 136/ENSC 136/ENTX 136/SWSC 136, CHEM 150B, CHEM 197, CHEM 199. CHEM 197 and CHEM 199 must be taken for a grade and a written report submitted.

### B.A. degree in Chemistry

#### Lower-division requirements (63 units)

CHEM 001A, CHEM 001B, CHEM 001C, CHEM 01LA, CHEM 01LB, CHEM 01LC (or CHEM 01HA and CHEM 1HLA, CHEM 01HB and CHEM 1HLB, CHEM 01HC and CHEM

1HLC), CHEM 005, CHEM 008A and CHEM 08LA, CHEM 008B and CHEM 08LB, CHEM 008C and CHEM 08LC (or CHEM 08HA and CHEM 8HLA, CHEM 08HB and CHEM 8HLB, CHEM 08HC and CHEM 8HLC)

MATH 009A, MATH 009B, MATH 009C, MATH 010A

PHYS 040A, PHYS 040B, PHYS 040C (or PHYS 002A, PHYS 002B, PHYS 002C, PHYS 02LA, PHYS 02LB, PHYS 02LC)

#### Upper-division requirements (36 units)

CHEM 110A, CHEM 110B, CHEM 113,

## ADVISING

Current course requirements are online in the UCR General Catalog at [catalog.ucr.edu](http://catalog.ucr.edu). For help in selecting courses, and for information about policies and procedures, contact a professional academic advisor:

Undergraduate Academic Advising Center  
1223 Pierce Hall  
Phone: (951) 827-7294

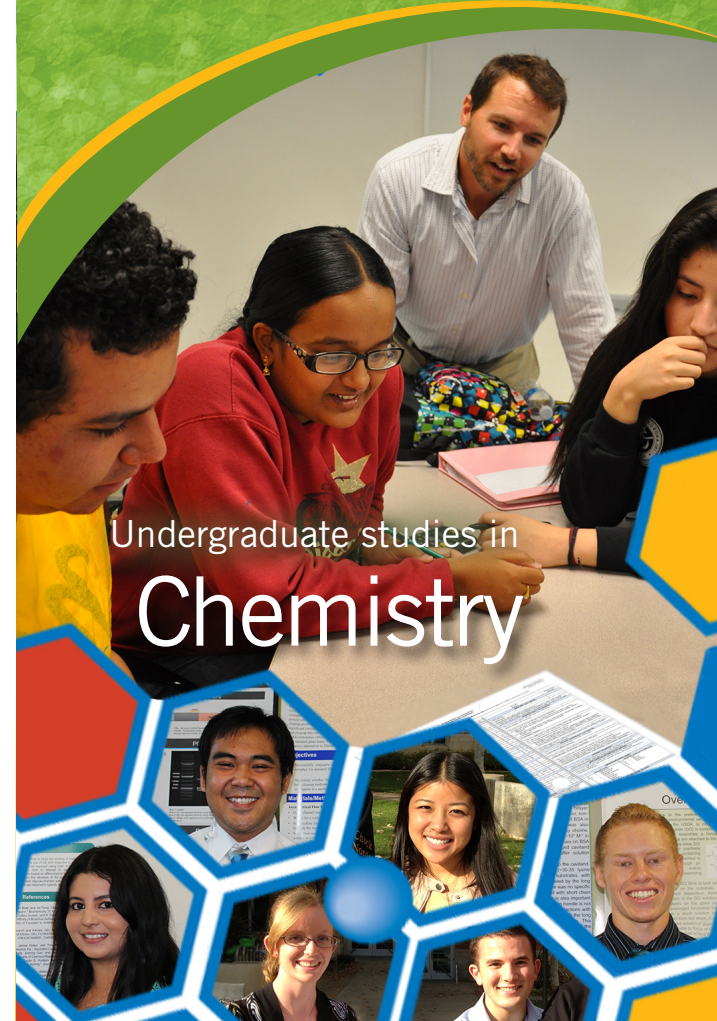
For advice about careers, graduate programs, research opportunities, and letters of recommendation, contact Undergraduate Faculty Advisors in the Department of Chemistry:

Wenwan Zhong  
334 Chemical Sciences Building  
Phone: (951) 827-4925  
Email: [wenwan.zhong@ucr.edu](mailto:wenwan.zhong@ucr.edu)

For Chemistry administrative assistance:

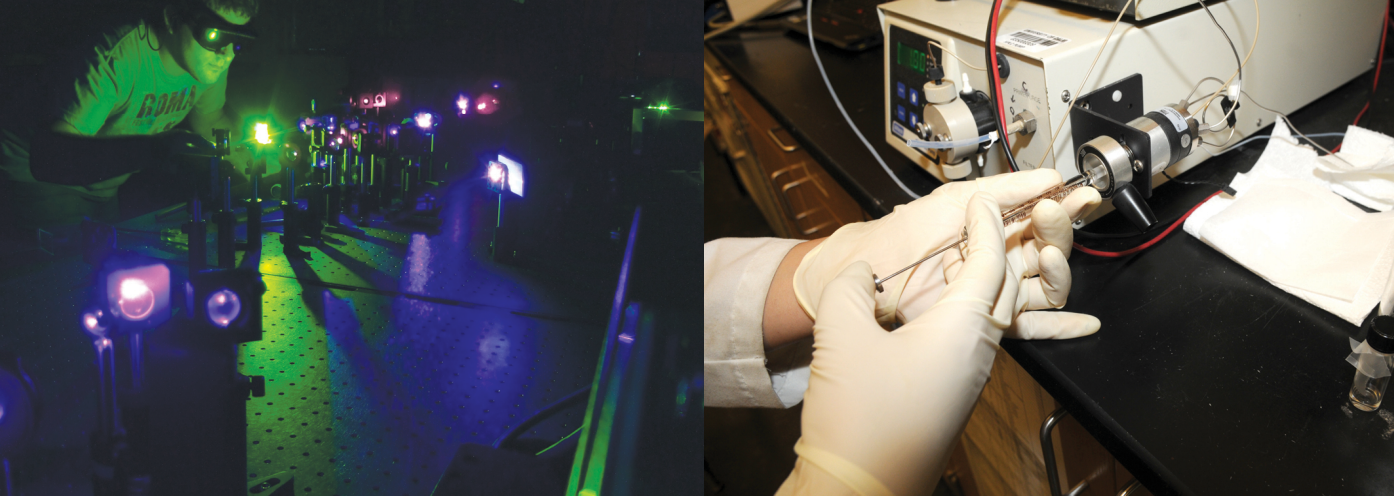
Jeffrey Matute  
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2017-18



Growing great science  
Making new discoveries  
Building great minds





# Chemistry at the University of California, Riverside

## ABOUT CHEMISTRY AND THE CHEMISTRY MAJORS

Chemistry, the study of matter and its changes, is typically divided into analytical, environmental, inorganic, materials, organic, and physical.

The Department of Chemistry offers a B.S. degree in Chemistry. In addition to the standard B.S. degree, students can choose options in Chemical Physics and in Environmental Chemistry. Students following these curricula meet the requirements for certification by the American Chemical Society.

The department also offers a B.A. degree, with less emphasis on Chemistry courses and reduced Physics and Math requirements. Students have increased ease in meeting requirements for such areas as premedical, pre dental, or prepharmaceutical science; education; and administration.

## ABOUT THE DEPARTMENT

The Department of Chemistry offers students excellent preparation for a career in chemistry and related fields. The chemistry major provides a strong background for preprofessional students

aiming for graduate, medical, or allied health professional schools after graduation.

## CAREER PATHS

A Chemistry degree prepares students for graduate work in chemistry and related fields, and provides an appropriate background for medical, dental, or pharmacy school. B.S.-level chemists find employment in a wide range of companies, from the petrochemical to the pharmaceutical and biotech industries. Flavor and fragrance chemists work in companies that make food, beverages, and consumer products. Chemists working in materials science contribute to the development of new functional materials, including nanomaterials. Many chemists work in the public sector, focused on air and water quality, forensics, and drug analysis. Chemists also find employment outside the laboratory in areas such as chemical sales, science writing, teaching, and patent law.

## RESEARCH AND OTHER OPPORTUNITIES

Many Chemistry majors are engaged in research, some as early as their freshman year. These students work side by side with faculty, postdoctoral researchers, and graduate students on exciting projects at the cutting edge of modern chemistry. UCR's Undergraduate Chemistry Club meets regularly for social activities, field trips, networking, and outreach.

Chemical Sciences Building

