DEGREE PROGRAMS

B.S. degree in Chemistry
This is only a sample; students will determine their specific programs with their advisors.

Lower-division requirements (59-60 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
MATH 008B or 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 (53-54 units)
CHEM 110A, CHEM 110B, CHEM 111, CHEM 112A, CHEM 112B, CHEM 112C, 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
This is only a sample; students will determine their specific programs with their advisors.

Lower-division requirements (51-52 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
MATH 008B or 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 (38-48 units)
CHEM 110A, CHEM 110B, CHEM 112A, CHEM 112B, CHEM 112C, CHEM 113, CHEM 125, CHEM 150A, CHEM 191, and either CHEM 111 or CHEM 140 or CHEM166
Ten (10) additional upper-division units in Chemistry if the year of organic chemistry is taken at a community college.

ADVISING
For help in selecting courses, and for information about policies and procedures, contact Professional Academic Advisor Karen Mitchell in the CNAS Undergraduate Academic Advising Center, 1223 Pierce Hall, 951.827.7294, karen.mitchell@ucr.edu. Current course requirements are online in the UCR General Catalog at http://catalog.ucr.edu.
For advice about careers, graduate programs, research opportunities, and letters of recommendation, contact the Undergraduate Faculty Advisor in the Department of Chemistry, Professor Jingsong Zhang (132 Chemical Sciences, 951.827.3288, jingsong.zhang@ucr.edu) or Jaime Matute (224 Chemical Sciences, 951.827.2436, jaime.matute@ucr.edu).
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, predental, 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.