

CHEMISTRY, B.S.

UNIVERSITY OF CALIFORNIA
MERCED

SCHOOL OF
NATURAL SCIENCES



WHY APPLY TO CHEMISTRY, B.S.?

Chemistry -- the Central Science -- is a broad scientific field connecting mathematics and physical sciences with life and environmental sciences. Chemists are key members of interdisciplinary teams in a wide array of job sectors including research and development, allied health, pharmaceutical sciences, law and government, business and management, and materials and catalysis sciences.

The UC Merced Chemistry & Biochemistry Department offers three undergraduate major emphasis tracks and a minor program. These educational experiences include a combination classroom, laboratory, and research opportunities that develop foundational scientific knowledge and practical laboratory skills. The curriculum provides courses in all of chemistry's core areas of study while allowing students to pursue expertise through the emphasis tracks, including biological chemistry and materials chemistry.

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CHEMISTRY, B.S.



Chemists and biochemists drive advancements in nearly all areas of science, engineering, and technology. Many chemistry students gain research experience with the department's world renown faculty. Other students participate in off-campus summer internships and research programs. In all cases, the Chemistry & Biochemistry Department aims to provide all students with an enriching learning environment that provides student growth and professional development opportunities.

- ▶ Agriculture & Food
- ▶ Science Astrochemistry
- ▶ Biotechnology
- ▶ Coatings & Polymers
- ▶ Education
- ▶ Energy
- ▶ Environmental Chemistry
- ▶ Forensic Science
- ▶ Geochemistry
- ▶ Hazardous Materials Management
- ▶ Health & Safety
- ▶ Laboratory Management
- ▶ Materials Science
- ▶ Medicinal Chemistry & Pharmaceuticals
- ▶ Nanotechnology
- ▶ Nuclear Chemistry
- ▶ Policy Development
- ▶ Public Health
- ▶ Research & Development
- ▶ Toxicology



ALUMNI SPOTLIGHT

Ana Arteaga
B.S. '15

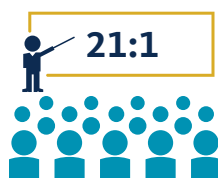
Dr. Arteaga first gained research experience at UC Merced as part of a high school research experience program hosted each summer by the Department of Chemistry & Biochemistry. In 2012 she joined UC Merced as a transfer undergraduate student. As a UC Merced student, Dr. Arteaga played a key leadership role in starting a campus SACNAS (Society for the Advancement of Chicanos/Hispanics and Native Americans in Science) chapter serving as the organization's founding Vice President and later as President.

Dr. Arteaga also engaged in undergraduate research, which led to a journal publication in 2015. After completing her degree, she was accepted into the chemistry graduate program at Oregon State where she earned a Ph.D. in 2020. Dr. Arteaga is currently a Linus Pauling Fellow at the Pacific Northwest National Laboratory in Washington State.

Graduate Program Opportunities

- ▶ Chemistry & Biochemistry M.S./Ph.D.
- ▶ Medical School
- ▶ Pharmacy School
- ▶ Law School

STUDENT-FACULTY RATIO



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