

CHEMISTRY

Department of Chemistry

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The mission of the Department of Chemistry is to provide a rigorous and exceptional course of study in the physical and chemical sciences utilizing multi-faceted learning experiences, guided inquiry laboratory, and scientific research to prepare students for successful careers in chemical education and research, scientific discovery, and the medical sciences relevant to our global community.

The vision of the Department of Chemistry is to be a leader in providing interdisciplinary and multidisciplinary approaches to chemical education and research, attracting and preparing a diverse body of students to be scientific professionals, and exceeding the demands of a changing global and technological society.

The Department of Chemistry offers undergraduate and graduate degree programs designed for students interested in the chemical professions and for students who desire a career in teaching chemistry, biology, physics, mathematics, engineering, and other health sciences and preparation for graduate study. Chemistry majors graduate with a wide choice of career possibilities as researchers and administrators in the chemical, environmental, health, and pharmaceutical industries. The Department also provides the requisite pre-professional courses for studying medicine, dentistry, nursing, medical technology, pharmacy, and engineering.

Chemistry Department Objectives

1. Provide an in-depth study of fundamental principles of and current developments in chemistry including chemical structure, mechanisms, reactivity, and energetics.
2. Provide training in developing chemistry-related ideas and concepts and present findings to the public and the scientific community through speech, writing, and visual displays.
3. Provide training to critically evaluate diverse forms of chemistry-related literature or conversation.
4. Illustrate the principles of qualitative and quantitative analysis.
5. Provide students with in-depth fundamentals in laboratory techniques from the translation of topical knowledge to practical use and scientific outcomes.
6. Provide students an understanding of the role of intellectual property and ethics in the practice of modern science.

- Chemistry Accelerated Dual Degrees, B.S./ M.S. (<http://catalog.cau.edu/undergraduate/programs-study/arts-sciences/natural-sciences-mathematics/chemistry/chemistry-accelerated-dual-degrees-bs-ms/>)
- Chemistry Minor (<http://catalog.cau.edu/undergraduate/programs-study/arts-sciences/natural-sciences-mathematics/chemistry/chemistry-minor/>)

- Chemistry, B.S. (<http://catalog.cau.edu/undergraduate/programs-study/arts-sciences/natural-sciences-mathematics/chemistry/chemistry-bs/>)

Programs of Study

1. Bachelor of Science Degree in Chemistry (122 Credits)
2. Accelerated Dual Degrees in Bachelor of Science and Master of Science in Chemistry (152 Credits)
3. Dual Degree in Bachelor of Science Degree in Chemistry (CAU) and Bachelor of Chemical Engineering (from participating Dual-Degree Engineering Program (DDEP) institution)
4. Minor in Chemistry (24 Credits)