

# CHEMISTRY

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## Department of Chemistry

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## Overview

The Department of Chemistry offers 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 as well as 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 educates students to become adept in the molecular sciences, and to apply their skill and knowledge for analysis and for solution of wide-ranging problems. Our goal is to prepare students to be proficient in the methods of scientific inquiry. Some will pursue scientific careers and contribute as experimentalists or theoreticians in varied research or industrial settings. Others will apply the methods and discoveries of this discipline in many associated professions, such as the health sciences and public policy. Chemistry and its associated disciplines, Materials Science, Biological Chemistry, Environmental Science, are advancing rapidly and transforming society in the material and sociological arenas. The faculty and many students are engaged fully in research and development of these evolving sciences.

## Mission

The mission of the Department of Chemistry is to provide students a rigorous course of study in the physical and chemical sciences by utilizing multi-faceted learning experiences, guided inquiry laboratory, and scientific research to prepare students for careers as chemists or professionals in research and development, scientific discovery, or medical service in the global community.

## Vision

The vision of the Department of Chemistry is to become a leading provider of interdisciplinary approaches to chemistry education and research that attracts and prepares diverse students to be scientifically literate and competitive professionals to meet the future demands of the changing global environment.

- Chemistry, M.S. (<http://catalog.cau.edu/graduate/programs-study/arts-sciences/natural-sciences-mathematics/chemistry/chemistry-ms/>)
- Chemistry, Ph.D. (<http://catalog.cau.edu/graduate/programs-study/arts-sciences/natural-sciences-mathematics/chemistry/chemistry-phd/>)
- Industrial Chemistry, M.S. (<http://catalog.cau.edu/graduate/programs-study/arts-sciences/natural-sciences-mathematics/chemistry/industrial-chemistry-ms/>)

## Programs of Study

- Master of Science Degree in Chemistry (31 Credits)
- Master of Science Degree in Chemistry: Biochemistry Concentration (36 Credits)

- Master of Science Degree in Industrial Chemistry (37 Credits)
- Doctor of Philosophy Degree in Chemistry (72 Credits)

*Students may concentrate their studies in Analytical, Organic, Inorganic, Physical and Polymer Chemistry, and Biochemistry.*