

MAJOR IN CHEMISTRY, HEALTH SCIENCES CONCENTRATION

The health science concentration compliments a students' chemistry knowledge with content from biology, anatomy, physiology, and microbiology. This concentration is recommended for students who wish to pursue a career in the medical, veterinary, pharmacy, dentistry, and allied fields. The additional course work is designed to enable students to fulfill the prerequisite requirements for health sciences professional programs.

Chemistry majors in the health sciences concentration are encouraged to participate in undergraduate research. Ample opportunities exist for undergraduate students to become involved in ground-breaking research in the laboratories of individual faculty members. Students have access to state-of-the-art equipment in faculty laboratories and the Analytical Resources Core facility, including NMR, FTIR, UV/Vis, fluorescence, mass spectrometers, vacuum lines, x-ray diffractometers, and many more. Undergraduate research is strongly encouraged for any student considering a career in the sciences, and many students complete supervised research for academic credit. Development of laboratory and research skills result in transferable skills that a graduate can apply towards a career in the health sciences.

Learning Objectives

Upon successful completion, students will be able to:

1. Identify the anatomical features of humans or domestic animals and define their physiological roles.
2. Articulate the role chemistry plays in disease and its treatment.
3. Apply interdisciplinary knowledge from chemistry and related fields (biology, microbiology, anatomy, physiology, and psychology) to problems and questions in the health sciences.