

BIOCHEMISTRY AND MOLECULAR BIOLOGY

Faculty

Megan L. Bestwick, Ph.D. • Chemistry (Coordinator)

Brian Gilbert, Ph.D. • Chemistry

Catherine Reinke, Ph.D. • Biology

Biochemistry and Molecular Biology, as the intersection of the disciplines of Chemistry and Biology, applies the understanding of energy, atoms, molecules, and molecular interactions to the intricate processes which occur within a living cell. Attentive to the curriculum recommendations of the American Society for Biochemistry and Molecular Biology, pertinent course offerings are coordinated from the Departments of Chemistry and Biology to provide the framework of integration. The degree requires a sequence of courses which provide a background for research in biomolecular sciences, for employment at the bachelors level, or for graduate training in related areas. It also provides preparation for students wanting to enter professional training programs in medicine, dentistry, pharmacy, or other health professions.

STUDENT RECOGNITION

Each year in May, the Chemistry Department grants to appropriate students majoring in chemistry or biochemistry and molecular biology the following awards and scholarships:

- The Albert Stout Award; to an outstanding current junior
- The Lois Gunning Fry Award; to a current sophomore or junior who has done outstanding research and shows promise of a successful professional career in chemistry or biochemistry
- The D.S. and E.Z. Taylor Scholarship; to current sophomores or juniors who need financial assistance and possess qualities desired by the department in its students
- The Erickson-Cole Endowed Scholarship; a merit award to a student interested in chemistry or biochemistry showing great promise in the sciences
- The Baguley Summer Research Internship created in honor of Dr. Brittany Hartzel-Baguley (2000); to support student summer research with Linfield chemistry faculty
- The American Chemical Society Undergraduate Awards in Analytical, Physical or Organic Chemistry; to outstanding students for their performance in courses and research
- The General Chemistry Achievement Award; to the top first-year students in general chemistry
- The Outstanding Senior in Chemistry and the Outstanding Senior in Biochemistry & Molecular Biology

Programs

- Biochemistry and Molecular Biology Major (<http://catalog.linfield.edu/programs-az/arts-sciences/biochemistry-molecular-biology/biochemistry-molecular-biology-major/>)

Courses

BCMB 486 SENIOR CAPSTONE (1 credit)

Senior capstone course emphasizing breadth of knowledge in foundational biology and chemistry and depth of knowledge in integrated biochemistry course work. Coursework may include discussions of primary literature, oral presentations, and written and oral exams.

Prerequisites: Senior standing.

Other courses for the biochemistry and molecular biology major are found in the chemistry (<https://catalog.linfield.edu/courses-az/chem/>) and biology (<https://catalog.linfield.edu/courses-az/biol/>) course listings.