MOLECULAR AND BIOMEDICAL BIOLOGY

Students seeking biomedical careers can pursue specialized studies in cellular and molecular biology. Molecular and Biomedical Biology majors gain real-world experience in biomedical research during the required biotechnology internship. The Molecular and Biomedical Biology degree is an outstanding way to prepare for graduate programs in cellular and molecular biology, a career in the biotechnology industry or health professions.

Other Information
All coursework taken for the Molecular and Biomedical Biology major or minor must be completed with a grade of "C-" or better.

Double Majors
For a double major in Biology and Molecular and Biomedical Biology or Bioinformatics and Molecular and Biomedical Biology, beyond: BIOL 1450, BIOL 1750, BIOL 2140 and BIOL 3020, no other biology courses may count for both majors.

Contact Information
Allwine Hall 114
402.554.2641

Website (http://www.unomaha.edu/college-of-arts-and-sciences/biology/academics/biotechnology.php)

Degrees Offered
• Molecular and Biomedical Biology, Bachelor of Science (http://catalog.unomaha.edu/undergraduate/college-arts-sciences/biotechnology/biotechnology-bs/)

Writing in the Discipline
All students are required to take a writing in the discipline course within their major. For the Molecular and Biomedical Biology major, the writing in the discipline requirement can be fulfilled by completing a sequence of approved biology courses at UNO that incorporate discipline specific writing as part of their requirements. To satisfy the requirement for the writing in the discipline course students must complete BIOL 1450 AND BIOL 1750, two courses from BIOL 2140, BIOL 3020 and BIOL 3340 and two additional 3000/4000 level courses that are approved as meeting the writing requirement by the Department of Biology. Only courses taken at UNO and after January 1, 2010 can be applied to this requirement. Students not meeting the writing requirement through this sequence of courses will fulfill the writing requirement by completing BIOL 3150 or another college-approved advanced writing course.

Minors Offered
• Molecular and Biomedical Biology, Minor (http://catalog.unomaha.edu/undergraduate/college-arts-sciences/biotechnology/biotechnology-minor/)

At a most basic level molecular and biomedical biology involves the use of biological organisms, systems, or processes to develop technologies and products to improve the quality of life. Nowhere is this more apparent than in healthcare and new avenues to diagnose and treat disease. The curriculum focuses on molecular biology, genetics and genomics, cellular biology, and biochemistry. The program also ensures that students are able to participate in research through a semester-long internship in an academic, commercial, clinical, or government laboratory in the region.

• Laboratory Technologist
• Research Assistant
• Research Scientist
• Pharmaceutical/Medical Product Sales Representative
• Health Professions
• Health Educator

Specialized fields include
• Agricultural or animal biotechnology
• Fuels
• Pharmaceuticals
• Conservation and the environment
• Medical technology