

Nebraska Wesleyan University

Catalog 2024-2025

## BIO 3800 Molecular Genetics

4 hours

Majors, Minors & Degrees:

### Majors

Biochemistry and Molecular Biology (B.S.)

Biology (B.A.)

Biology (B.S.)

Innovation and Entrepreneurship (B.S.)

Science Education (B.A., B.S.)

Departments/Programs:

Biology

A study of the systems, mechanisms, and methods of molecular genetics with a particular emphasis on the analysis of the genetic material--mutagenesis, replication, regulation, transcription, and translation--and its protein products and their biological function. Recombinant DNA/genetic engineering and other modern technologies will be discussed. Three lecture per week. One 3-hour lab per week.

*Prerequisite(s): BIO 1400FYW Introduction to Biological Inquiry, BIO 2200 Genetics and Cell Biology, CHEM 1110 Chemical Principles I, and CHEM 2100 Organic Chemistry I.*

(Normally offered alternate spring semesters.)