

**Course:**

**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.)