Biological Sciences

57 credits
Bachelor of Science

A biological sciences degree prepares students for graduate work in biology as well as for medical or dental school.

Employment:
* Public Health departments
* Zoos and aquariums
* Wildlife preserves
* Private research institutions
* Colleges of Agriculture
* Hospitals and clinics
* Laboratories for textiles, food production, chemicals, pharmaceuticals, and forestry products
* Regulatory agencies such as the National Institute of Health and the Food and Drug Administration

Core Courses
6 courses - 14 credits
BIOSC 0170  Foundations of Biology 1
BIOSC 0070  Foundations of Biology 1 Lab
BIOSC 0180  Foundations of Biology 2
BIOSC 0080  Foundations of Biology 2 Lab
BIOSC 0350  Genetics
BIOSC 1000*  Biochemistry

* With consent of a Faculty Advisor and a minimum QPA requirement, students may substitute the multi-course Biochemistry sequence of BIOSC 1820 and BIOSC 1825.

Upper Level Courses
13 credits
Students must take a minimum of two lecture/lab combinations. Courses marked with asterisks are recommended for students who are seeking the strongest preparation for graduate, medical, and dental school.

Additional Upper Level Courses
BIOSC 1017  Epidemiology
BIOSC 1110 & 1111  Anatomy and Physiology 1 & Lab
BIOSC 1115 & 1116  Anatomy and Physiology 2 & Lab
BIOSC 1150  History of Evolutionary Thought
BIOSC 1371  Environmental Health
BIOSC 1385  Ecology and Environment
BIOSC 1500 & 1510  Developmental Biology & Lab
BIOSC 1520 & 1530  Molecular Biology & Lab
BIOSC 1760  Immunology
BIOSC 1850 & 1860  Microbiology & Lab*
BIOSC 1855  Medicinal Chemistry
BIOSC 1940 & 1950  Molecular Biology & Lab

Other Required Science Courses
9 courses - 24 credits
CHEM 0310 & 0330  Organic Chemistry 1 & Lab
CHEM 0320 & 0340  Organic Chemistry 2 & Lab
PHYS 0110  Introduction to Physics 1
PHYS 0111 & 0212  Introduction to Physics 2 & Lab
MATH 0220  Analytic Geometry and Calculus 1
STAT 1000**  Applied Statistical Methods

** With the consent of a Faculty Advisor, students may substitute MATH 0230 - Analytic Geometry and Calculus 2 for STAT 1000.

Additional Requirement
2 courses - 6 credits

Biology majors must take the following sequence of courses to fulfill the capstone requirement:
BIOSC 1960  Scientific Writing
BIOSC 1962  Biology Undergraduate Research OR
BIOSC 1963  Biology Undergraduate Independent Research

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