



University of
Pittsburgh
Greensburg

Biological Sciences

undergraduate program

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 & 0070 | Foundations of Biology 1 & Lab |
| BIOSC 0180 & 0080 | Foundations of Biology 2 & Lab |
| BIOSC 0350 | Genetics |
| BIOSC 1000* | Biochemistry |

* With consultation of a Faculty Advisor and a minimum QPA requirement, students may substitute the multi-course Biochemistry sequence of BIOSC 1810, BIOSC 1820, and BIOSC 1825.

Upper Level Courses

13 credits

Students must take a minimum of two lecture/lab combinations.

Courses with Labs

| | |
|-------------------|--------------------------------|
| BIOSC 1110 & 1111 | Anatomy and Physiology 1 & Lab |
| BIOSC 1115 & 1116 | Anatomy and Physiology 2 & Lab |
| BIOSC 1385 | Ecology and Environment |
| BIOSC 1275 & 1285 | Genomics & Lab |
| BIOSC 1500 & 1510 | Cell Biology & Lab |
| BIOSC 1850 & 1860 | Microbiology & Lab |
| BIOSC 1940 & 1950 | Molecular Lecture & Lab |
| BIOSC 1520 & 1530 | Developmental Lecture & Lab |

Courses without Labs

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|------------|---------------------------------|
| BIOSC 1017 | Epidemiology |
| BIOSC 1090 | Intro to Biopsychology |
| BIOSC 1150 | History of Evolutionary Thought |
| BIOSC 1215 | Intro to Neuroscience |
| BIOSC 1371 | Environmental Health |
| BIOSC 1440 | Animal Behavior |
| BIOSC 1535 | Sensation and Perception |
| BIOSC 1730 | Virology |
| BIOSC 1760 | Immunology |
| BIOSC 1855 | Medicinal Chemistry |

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 consultation 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 |

NOTE: Prerequisites for courses are not shown

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