**Associate in Science Degree: Biological Sciences**

Biological Sciences covers all aspects of the scientific study of life and emphasizes both the unity and diversity of living things. The structure, function, and behavior of organisms are studied at the molecular, cellular, organismal and environmental levels. The biology program serves three areas of: a broad background of studies for the biology major preparing for transfer to a four-year institution; support courses in human anatomy, human physiology, and general microbiology, which may be used to satisfy prerequisites for nursing programs and other allied-health fields; and courses in natural sciences to fulfill general education requirements.

Degree Student Learning Outcome:

Students will be able to interpret, analyze, and evaluate Biological knowledge using the scientific method.

Program Requirements:

Units Required: 32

| | | Units: |
|---|---|---|
| Eight units from the following: | | |
| BIOSCI-106 | Organismal & Environmental Biology | 4.0 |
| OR | | |
| BIOSCI-106H | Organismal & Environmental Biology - Honors | 4.0 |
| BIOSCI-107 | Molecular and Cellular Biology | 4.0 |
| OR | | |
| BIOSCI-107H | Molecular and Cellular Biology Honors | 4.0 |
| Eight units from the following: | | |
| BIOSCI-115 | General Zoology | 4.0 |
| BIOSCI-116 | General Botany | 4.0 |
| BIOSCI-201 | Introduction to Human Anatomy | 4.0 |
| BIOSCI-202 | Introduction to Human Physiology | 4.0 |
| BIOSCI-204 | Human Anatomy and Physiology I | 4.0 |
| BIOSCI-205 | Human Anatomy and Physiology II | 4.0 |
| BIOSCI-221 | Introduction to Microbiology | 5.0 |
| BIOSCI-240 | Molecular Genetics | 4.0 |
| Sixteen units from the following: | | |
| CHEM-201 | General Chemistry I | 6.0 |
| OR | | |
| CHEM-201H | General Chemistry I – Honors | 6.0 |
| CHEM-202 | General Chemistry II | 5.0 |
| CHEM-255 | Organic Chemistry I | 5.0 |
| CHEM-256 | Organic Chemistry II | 5.0 |
| MATH-211 | Calculus I | 5.0 |
| MATH-212 | Calculus II | 5.0 |
| PHYSIC-110 | General Physics I | 4.0 |
| PHYSIC-111 | General Physics II | 4.0 |
| PHYSIC-220 | Physics for Scientists and Engineers: Mechanics of Solids and Fluids | 4.0 |
| PHYSIC-221 | Physics for Scientists and Engineers: Electricity and Magnetism | 4.0 |

Recommended electives:

| | | |
|---|---|---|
| BIOSCI-130 | Environmental Biology | 3.0 |
| BIOSCI-132 | Concepts in Evolution | 3.0 |
| BIOSCI-140 | Principles of Human Genetics | 3.0 |
| BIOSCI-180 | Biology of Cancer | 3.0 |