

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	5.0
OR		
CHEM-201H	General Chemistry I – Honors	5.0
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-210	Physics with Calculus for Life Science Majors I	4.0
PHYSIC-211	Physics with Calculus for Life Science Majors 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
WE-186ENVR	Work Experience Education Environmental Science	0.5 – 4.0