

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-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
CWE-186ENVR	Cooperative Work Experience Education Environmental Science (Unpaid)	0.5 – 4.0