

BIOLOGICAL SCIENCES ASSOCIATE IN SCIENCE



This degree program is designed to provide a two-year transfer program with emphasis on the uniformity and diversity of life. The curriculum fulfills the lower division requirements for majors in biology, dentistry, medicine, nursing, pharmacy, environmental health, microbiology and ecology.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

- Explain the basic structures and fundamental processes of life at the molecular, cellular, and organismal levels.
- Identify the evolutionary processes that lead to adaptation and biological diversity.
- Describe the relationship between life forms and their environment and ecosystems.
- Collect, organize, analyze, interpret and present quantitative and qualitative data and incorporate them into the broader context of biological knowledge.
- Effectively apply current technology and scientific methodologies for problem solving.
- Find, select and evaluate various types of scientific information including primary research articles, mass media sources and World Wide Web information.
- Communicate effectively in written and oral formats.

Career Opportunities

Aquatic Biologist¹
 Athletic Trainer¹
 Biologist¹
 Biochemical Engineer¹
 Biological Technician
 Biomedical Equipment Technician
 Biotechnologist
 Botanist¹
 Clinical Lab Technologist
 Cytologist¹
 Ecologist¹
 Environmental Engineer¹
 Environmental Technician
 Environmental Microbiologist¹
 Genetic Engineering Technician
 Greenhouse Assistant
 Laboratory Technician
 Physical Therapist¹
 Public Health Biologist¹
 Purification Technician
 Research Assistant
 Safety Specialist
 Teacher¹
 Technical Writer

Waste Management Technician

¹ Bachelor Degree or higher required.

Associate in Science Degree Requirements

Code	Title	Units
BIO-230	Principles of Cellular, Molecular and Evolutionary Biology	4
BIO-240	Principles of Ecology, Evolution and Organismal Biology	5
CHEM-141	General Chemistry I	5
CHEM-142	General Chemistry II	5
CHEM-231	Organic Chemistry I	5
MATH-160 or PSY-215	Elementary Statistics Statistics for the Behavioral Sciences	4
MATH-180	Analytic Geometry and Calculus I	5
PHYC-130	Fundamentals of Physics	4
PHYC-131	Fundamentals of Physics	4
Total Units		41

Plus General Education Requirements (<https://catalog.gcccd.edu/cuyamaca/degree-requirements-transfer-information/>)