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 Biologist Athletic Trainer Biologist1 Biochemical Engineer **Biological Technician** Biomedical Equipment Technician Biotechnologist Botanist 1 Clinical Lab Technologist Cytologist b Ecologist 1 Environmental Engineer **Environmental Technician** Environmental Microbiologist I Genetic Engineering Technician Greenhouse Assistant Laboratory Technician Physical Therapist 1 Public Health Biologist 1 **Purification Technician** Research Assistant Safety Specialist Teacher

Technical Writer

Waste Management Technician

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 | Elementary Statistics | 4 |
| or PSY-215 | Statistics for the Behavioral Sciences | |
| 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/)

Bachelor Degree or higher required.