BIOLOGICAL SCIENCES ASSOCIATE IN SCIENCE



The Biological Sciences Department offers a solid academic foundation for further study in life sciences. The primary emphasis of the biological sciences major program is to prepare students for successful transfer to baccalaureate (four-year) institutions. This course package for majors is modeled on the transfer requirements of San Diego State University and will satisfy requirements of most other California State University and University of California campuses. Students should check the catalog of the transfer school being considered for its specific requirements.

Career Opportunities

https://www.grossmont.edu/student-support/career-center/resources.php

Aquatic Biologist¹
Biologist¹
Biologist¹
Biotechnology Lab Technician¹
Cytotechnologist
Ecologist¹
Environmental Engineer¹
Forensic Pathologist¹
Geneticist¹
Hydrologist¹
Laboratory Assistant
Microbiologist¹
Nuclear Medical Technician²
Physical Therapist¹
Sanitarian¹

The Program-level Student Learning Outcomes (PSLOs) below are outcomes that students will achieve after completing specific degree / certificate requirements in this program. Students will:

- Explain how differences are the result of changes in characteristics due to natural selection and other forces of evolution.
- Compare and contrast the ways that different kinds of cells, organisms or the community take in, use, and transfer energy to meet their metabolic needs (Homeostasis).
- Describe how genetic information is stored, expressed, and transferred to offspring.
- Explain how a specific structure has a specific function based on its characteristics.
- Explain how molecules, cells, organs and/or organisms interact with one another and their environments.

Associate Degree Major Requirements

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Code	Title	Units
BIO-215	Statistics for Life Sciences	3
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
Select one of the following:		5
CHEM-231	Organic Chemistry I	
or		
CHEM-241 & CHEM-241L	Organic Chemistry I Lecture and Organic Chemistry I Laboratory	
MATH-180	Analytic Geometry and Calculus I	5
PHYC-130	Fundamentals of Physics	4
PHYC-131	Fundamentals of Physics	4
Total Units		40

Plus General Education (https://catalog.gcccd.edu/grossmont/admission-information/general-education-transfer/) and Elective Requirements

¹ Bachelor's Degree or higher required.

² Bachelor Degree normally recommended.