

BIOLOGY - ASSOCIATE IN ARTS

The purpose of the associate degree in Biology is to provide a lower division science foundation for those interested in pursuing biology as a major field of study. This major prepares students to transfer to any California State University or University of California campus. Students considering careers in research, teaching, medical fields, biotechnology, or other related fields require a foundation in biological sciences. The Biology major is an ideal academic preparation for entry into these professions. Students must complete each major course, major elective course, and general education course with a grade of 'C' or better to be awarded the degree.

Program Learning Outcomes

- Employ the scientific method in the design, implementation, data collection, and analysis of experiments or observational studies.
- Practice current or industry-standard laboratory techniques and lab safety procedures.
- Explain scientific concepts and processes from levels ranging from biochemical to ecological.

Major Requirements

Course	Title	Units
BIOL 004A	General Principles and Cell Biology	5
BIOL 004B	Organismal Biology and Biodiversity	5
CHEM 001A	General Chemistry	5
CHEM 001B	General Chemistry	5

Major Electives

Course	Title	Units
Select 8 units from the following:		8
BIOL 020	Human Biology	
BIOL 061	Human Heredity	
BIOL 062	Plants and Human Welfare	
BIOL 063	Ecology	
BIOL 064	Marine Biology	
BIOL 065	Wildlife Biology	
BIOL 071	Human Anatomy	
BIOL 072	Human Physiology	
BIOL 074	General Microbiology	
BIOL 080C	Field Biology - Coastal California	
BIOL 080D	Field Biology - Death Valley National Park	
BIOL 080F	Field Biology - Forest and River Ecology	
BIOL 080G	Field Biology - Volcanic Northern California	
ENVIR 010	Environmental Science	

Recommended Chemistry/Math Preparation

Course	Title	Units
CHEM 012A	Organic Chemistry	
CHEM 012B	Organic Chemistry	
MATH 063	Elementary Statistics	
MATH 071 or MATH 066	Calculus I With Analytic Geometry Calculus I Late Transcendentals for STEM	

MATH 072 Calculus II With Analytic Geometry
or MATH 067 Calculus II Late Transcendentals for STEM

Total Requirements

Course	Title	Units
Major Requirements		20
Major Electives		8
General Education Requirements ¹		39
Total Units		60

¹ Some GE courses may be double-counted within the major and reduce the total number of units.