

# BIOLOGY ASSOCIATE OF SCIENCE DEGREE

- d. Present scientific information through various modes of communication, including written and oral presentations.

The Associate of Science degree in Biology is intended to provide breadth in the aspects of biology that investigate the living world including cellular physiology, genetics, ecology, and evolutionary biology. Majors in Biology prepare for a wide variety of occupations in education, government, medicine, research, and biotechnology. This degree prepares students to transfer to four-year universities to pursue a Bachelor's degree. At the four-year institutions, students may choose to specialize in one particular field of Biology. To graduate with the A.S degree in Biology, students must complete the following required courses plus the general breadth requirements for the Associate's Degree (minimum total = 60 units).

Code	Title	Units
<b>Required Courses:</b>		
BIOL 205	Cell and Molecular Biology	4
BIOL 206	Organismal Biology	4
BIOL 207	Evolutionary Ecology	4
CHEM 150	General Chemistry I	5
CHEM 151	General Chemistry II	5
MATH 250	Single Variable Calculus I	4
MATH 251	Single Variable Calculus II	4
<b>Total Units</b>		<b>30</b>

Code	Title	Units
<b>Recommended Courses:</b>		
CHEM 212	Organic Chemistry I	5
CHEM 213	Organic Chemistry II	5
PHYSIC 151	General Physics for the Life Sciences I	4
PHYSIC 152	General Physics for the Life Sciences II	4

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

## Program Learning Outcomes

At the completion of this program, students will be able to:

- Evaluate biodiversity at the evolutionary, molecular, cellular, organismal, and ecosystem levels and examine this content knowledge under aspects of social inequities in our local and global human communities.
- Practice scientific thinking and hands-on contemporary methodologies by creating and performing semester-long independent biological studies in laboratory and outdoor settings.
- Utilize biological and scientific information literacy to analyze science from pseudoscience or non-science and distinguish scientific misinformation and disinformation in the global media sphere.