BIOLOGY ASSOCIATE OF SCIENCE DEGREE

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
Required Courses		
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
Total Units		**30**

Code	Title	Units
Recommended Courses		
CHEM 212	Organic Chemistry I	4
CHEM 213	Organic Chemistry II	4
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:

- Master basic cellular, organismal, and environmental concepts and apply them to other scientific studies, voting decisions, personal habits, and lifestyle choices
- Transfer to an accredited university as a junior with a major in Biology or a related subject
- Use the principles and concepts of Biology to make a positive impact on your life, your career, and your world
- Communicate your knowledge of biological concepts to enhance the understanding of others
- Demonstrate a proficiency in standard biological laboratory techniques commonly acquired in lower-division coursework