

BIOLOGY - ASSOCIATE IN SCIENCE FOR TRANSFER

The goal of the Associate in Science in Biology for Transfer (AS-T) degree 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 California State University campuses. Students considering careers in research, teaching, scientific consulting, medicine, biomedical engineering, pharmacy, forensics, and biotechnology industries find the Biology major essential to their academic preparation for entry into these professions.

The AS-T in Biology is intended for students who plan to complete a baccalaureate degree in Biology or a related field of study at a California State University (CSU). Students who complete this degree are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that accepts the AS-T in Biology will be required to complete no more than 60 semester units after transfer to earn a baccalaureate degree.

To be awarded the Associate Degree for Transfer, students must have the following:

- Completion of 60 CSU transferable semester units.
- A minimum of at least 2.0 GPA in CSU transferable courses (note that a higher GPA may be required in some institutions).
- Completion of at least 18 semester units in the major with a grade of "C" or better. A "P" (Pass) grade is also an acceptable grade for courses in the major if the course is taken on a Pass/No Pass basis.
- Certified completion of the CSU General Education-Breadth (CSU GE-Breadth) requirements, or completion of the Intersegmental General Education Transfer Curriculum (IGETC) for CSU requirements.

Please Note: No more than 60 semester units are required for this degree and no additional requirements will be imposed by Evergreen Valley College.

Program Learning Outcomes:

- Design, conduct, analyze, and/or report the results of investigations and experiments in the laboratory and/or field.
- Explain and apply basic principles and processes of biology from the biochemical level to the ecological level.
- Practice current or industry-standard biology laboratory techniques and lab safety procedures.

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
MATH 066	Calculus I Late Transcendentals for STEM	4
or MATH 071	Calculus I With Analytic Geometry	
PHYS 002A & PHYS 002B	Algebra/Trigonometry-Based Physics I and Algebra/Trigonometry-Based Physics II	8

or

PHYS 004A & PHYS 004B	General Physics and General Physics	10
or		
PHYS 007A & PHYS 007B	Calculus-Based General Physics for Scientists and Engineers - I and Calculus-Based General Physics for Scientists and Engineers - II	8

Total Requirements

Course	Title	Units
Major Requirements ¹		35
CSU GE-Breadth for STEM or IGETC (CSU) for STEM ²		31-33
Total Units		60

¹ Some GE courses may be double-counted within the major and will reduce the number of units. General electives may be needed to reach 60 units.

² CSU-GE for STEM only requires students to complete 6 units in the Arts and Humanities and 3 units in the Social Science areas (CSU-GE areas C and D); IGETC for STEM requires students to complete 6 units in the Arts and Humanities and 3 units in the Social Science areas (areas 3 and 4) prior to transfer