

BIOLOGY - ASSOCIATE IN SCIENCE FOR TRANSFER

Are you considering majoring in biology? Are you interested in a career in research, healthcare, medicine, biotechnology, and/or teaching? Would you like guaranteed admission to a CSU?

The Associate in Science in Biology for Transfer (AS-T) Degree provides students with a solid foundation in the life sciences, in preparation for a potential transfer to a 4-year institution. Successful completion of the AS-T satisfies lower division requirements and *guarantees admission* to the California State University (CSU) system (*though not to a particular campus or major*). The AS-T degree in Biology is designed to prepare those students interested in majoring in biology, and/or those considering careers in the life sciences, including research, teaching, medicine and healthcare, biotechnology, and other related disciplines.

To be awarded the Associate in Science in Biology for Transfer degree, students must:

(1) Complete 60 semester units or 90 quarter units which are eligible for transfer to the California State University (CSU) system, including both of the following:

(A) The California General Education Transfer Curriculum (Cal-GETC) Requirements.

(B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

(2) Obtain a minimum grade point average of 2.0.

While a minimum of 2.0 is required for admission, some majors may require a higher GPA. Please consult with a counselor for more information.

Associate Degrees for Transfer (ADTs) also require that students must earn a "C" or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is an acceptable grade for courses in the major if the course is taken on a "pass/no pass" basis.

Upon successful completion of this program, students will be able to:

- Formulate and test hypotheses by employing the scientific method, including collecting, interpreting and presenting data.
- Properly use scientific terms and concepts, especially in the context of critically assessing scientific arguments.
- Classify organisms into taxonomic groups and compare and contrast their living functions and organization.
- Apply chemical, physical, and biological principles to explain the significance of fundamental processes and phenomena in biology (including but not limited to photosynthesis, metabolism, DNA replication, and current uses of biotechnology).
- Apply ecological principles to explain the natural histories of organisms, their interconnectedness with the environment, and the importance of conservation.

Major Requirements

Course	Title	Credits
Required Core:		10
BIOL 004A	General Principles and Cell Biology	5
BIOL 004B	Biodiversity and Organismal Biology	5

List A:		23-25
CHEM 001A	General Chemistry	5
CHEM 001B	General Chemistry	5
MATH 071	Calculus I With Analytic Geometry	5
PHYS 002A	Algebra/Trigonometry-Based Physics I and	
PHYS 002B	Algebra/Trigonometry-Based Physics II	
OR		
PHYS 004A	General Physics	
and		
PHYS 004B	General Physics	
Total Units		33-35

AS-T Degree Requirements

Course	Title	Credits
Major Requirements		33-35
Cal-GETC Requirements		34
Transferable Electives (as needed to reach 60)		1-3
Total Units		60