

BIOLOGY FOR TRANSFER (AS-T)

The Associate in Science in Biology for Transfer presents the diverse, dynamic study of life through a required core of biology and supporting courses. This degree is specifically designed to prepare students for transfer to a California State University, where a baccalaureate degree may be earned in Biological Sciences or a closely related field.

The following is required for the AS-T in Biology for Transfer degree:

- 1. 60 semester or 90 quarter CSU-transferable units;
- The Intersegmental General Education Transfer Curriculum (IGETC) for Science, Technology, Engineering and Mathematics (STEM) pattern for the CSU;*
- 3. Minimum of 18 semester or 27 quarter units in the major or area of emphasis;
- 4. Minimum grade point average (GPA) of 2.0;
- 5. Grade of "C" or better in all courses required for the major or area of emphasis.

Program Learning Outcomes

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

- Explain the basic structures and fundamental processes of life at the molecular, cellular, and organismal levels.
- Identify the evolutionary processes that lead to adaptation and biological diversity.
- Describe the relationship between life forms and their environment and ecosystems.
- Collect, organize, analyze, interpret and present quantitative and qualitative data and incorporate them into the broader context of biological knowledge.
- Effectively apply current technology and scientific methodologies for problem solving.
- Find, select and evaluate various types of scientific information including primary research articles, mass media sources and World Wide Web information.
- Communicate effectively in written and oral formats.

Associate in Science for Transfer Degree Requirements:

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Course	Title Uni	its		
Required Core:				
BIO 230	Principles of Cellular, Molecular and Evolutionary Biology	4		
BIO 240	Principles of Ecology, Evolution and Organismal Biology	5		
List A:				
CHEM 141	General Chemistry I	5		
	General Chemistry II	5		
MATH 180	Analytic Geometry and Calculus I	5		
Choose one sequence:				
PHYC 130	Fundamentals of Physics	4		
PHYC 131	Fundamentals of Physics	4		
or				
PHYC 190	Mechanics and Heat	5		
PHYC 200 5emphasis	Electricity and Magnetism).			

List B:

MΔTH 160	Elementary Statistics	1
100	Total Required	36-38
	Double-Counted Units	10
	General Education Requiremen	ts
	(IGETC-CSU for STEM)*	31
	Electives	1-3
	Total Degree Units	60

*Completion of IGETC-CSU for STEM allows for completion of 6 units of non-STEM GE work after transfer. One Area 3 course (Fine Arts and Humanities) and one Area 4 course (Social and Behavioral Sciences) may be deferred until after transfer.