

BIOLOGY FOR TRANSFER (AST.BIO)

ASSOCIATE IN SCIENCE FOR TRANSFER

Program Outcomes: Upon successful completion of this program a student will be able to:

- apply the scientific method to problem solving, devising a research plan, and evaluating data and findings.
- describe the structure and function of biological molecules, cells and organelles, and tissues and organ systems of plants and animals.
- apply the principles of heredity at the molecular, cellular, and organismal levels.
- explain the mechanism and evidence of evolution through natural selection.
- apply taxonomic principles to the classification of organisms.
- describe the flow of energy within organisms and within ecosystems.

Required Major Courses (29 units)

<input type="checkbox"/>	BIO-1 – Fundamental Biological Concepts	5.0
<input type="checkbox"/>	BIO-2 – General Zoology	5.0
<input type="checkbox"/>	BIO-3 – General Botany	5.0
<input type="checkbox"/>	CHM-1A – General Physics	5.0
<input type="checkbox"/>	CHM-1B – General Physics	5.0
<input type="checkbox"/>	MAT-3A – Analytic Geometry and Calculus I	4.0

Required Courses (Select 1 series 8 units)

<input type="checkbox"/>	PHY-2A – College Physics I	4.0
	AND	
	PHY-2B – College Physics II	4.0
	OR	
<input type="checkbox"/>	PHY-4A – General Physics I/Mechanics	4.0
	AND	
	PHY-4B – General Physics II/Electricity and Magnetism	4.0

Recommended Major Electives (None Required)

<input type="checkbox"/>	CHM-12A – Organic Chemistry I	5.0
<input type="checkbox"/>	CHM-12B – Organic Chemistry II	5.0
<input type="checkbox"/>	MAT-13 – Elementary Statistics	4.0
<input type="checkbox"/>	MAT-3B – Analytic Geometry and Calculus II	4.0
<input type="checkbox"/>	MAT-3C – Analytic Geometry and Calculus III	4.0

SUBTOTAL: 37 UNITS

General Education – Required Courses

Students must complete one of the following General Education Plans:

CSU-GE for STEM (see page 70) 33 units

IGETC for STEM (see page 72) 31 units

Students can double-count required courses and courses for General Education

■ Electives (Courses Numbered 1-99) required when degree units plus GE units total fewer than 60.

TOTAL: 60 UNITS



**A Degree With A
Guarantee.com**
Associate Degree
for Transfer

In order to earn this degree, students must complete the Associate Degree for Transfer Requirements:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University GE – Breadth Requirements (CSU GE-Breadth).
 - 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. Obtainment of a minimum grade point average of 2.0

ADTs include (AA-T) and (AS-T) degrees. The law authorizing these degrees also requires that students must earn a “C” or better in all courses required for the major or area of emphasis. 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.