

# BIOLOGY, ASSOCIATE IN SCIENCE FOR TRANSFER

The Associate in Science in Biology for Transfer degree (AS-T in Biology) is intended for students who plan to complete a bachelor's degree in a "similar" major at a CSU campus. For a current list of what majors (and what options or areas of emphasis within that major) have been designated as "similar" to this degree at each CSU campus, please refer to CSU's Associate Degree for Transfer Major and Campus Search (<https://www.calstate.edu/apply/transfer/Pages/associate-degree-for-transfer-major-and-campus-search.aspx>) and seek guidance from an Oxnard College counselor. Students completing this degree are guaranteed admission to the CSU system, although not necessarily to a particular CSU campus or major.

To earn an AS-T in Biology, students must:

- Complete a minimum of 60 CSU-transferable semester units including both of the following:
  - Certified completion of the Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education Breadth (CSU GE-Breadth) requirements.
  - A minimum of 35 semester units in the Biology major as listed in the Oxnard College catalog.
- Obtain a minimum grade point average (GPA) of 2.0 in all CSU-transferable coursework. 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.
- Obtain a grade of "C" or better or "P" in all courses required in the major. Even though a "pass-no-pass" is allowed (Title 5 section 55063), it is highly recommended that students complete their major courses with a letter grade.
- Complete requirements in residency. For students in the Ventura County Community College District, a minimum of 12 units must be completed in residence at the college granting the degree.

Students transferring to a CSU campus that accepts the AS-T in Biology will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated "high unit" major at a particular campus). This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

Course ID	Title	Units/ Hours
<b>Required Core Courses</b>		<b>10</b>
BIOL R120	Principles of Biology I	
BIOL R120L	Principles of Biology I Lab: Intro to Cellular and Molecular Biology	
BIOL R122	Principles of Biology II	
BIOL R122L	Principles of Biology II Laboratory	
<b>List A - Complete all of the following courses:</b>		<b>15</b>
CHEM R120	General Chemistry I	
CHEM R122	General Chemistry II	
MATH R120	Calculus with Analytic Geometry I	
<b>Select one Physics sequence:</b>		<b>10</b>

Sequence 1:

PHYS R101	College Physics 1
PHYS R101L	College Physics 1 Laboratory
PHYS R102	College Physics 2
PHYS R102L	College Physics 2 Laboratory

Sequence 2:

PHYS R131	Physics for Scientists and Engineers 1
PHYS R132	Physics for Scientists and Engineers 2

Sequence 3:

PHYS R121	Physics with Calculus 1
PHYS R122	Physics with Calculus 2

<b>Total Required Major Units</b>	<b>35</b>
CSU General Education Breadth *	33
Double-Counted Units	- 9
Free Electives Required	1
<b>Total Units Required for AS-T Degree</b>	<b>60</b>
OR	
<b>IGETC for STEM Pattern</b>	<b>31</b>
Double-Counted Units	- 7
Free Elective Required	1
<b>Total Units Required for AS-T Degree</b>	<b>60</b>

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This AS-T presumes completion of CSU GE-Breadth or IGETC for STEM, allowing for completion of 6 units of non-STEM GE work after transfer.

Year 1

Fall Semester		Units/Hours
CHEM R120	General Chemistry I	5
MATH R120	Calculus with Analytic Geometry I	5
Written Communication: CSU GE Area A2 or IGETC Area 1A		4
<b>Units/Hours</b>		<b>14</b>
Spring Semester		Units/Hours
CHEM R122	General Chemistry II	5
Critical Thinking: CSU GE Area A3 or IGETC Area 1B		3
Oral Communication: CSU GE Area A1 or IGETC Area 1C		3
Lifelong Learning and Self-Development: CSU GE Area E		3
Free Elective (choose one course)		3
<b>Units/Hours</b>		<b>17</b>
Summer Semester		Units/Hours
Arts and Humanities: CSU GE Area C1 or C2 or IGETC 3A or 3B		3-4
Language other than English: IGETC Area 6		
<b>Units/Hours</b>		<b>3-4</b>

Year 2

Fall Semester		Units/Hours
BIOL R120	Principles of Biology I	4
BIOL R120L	Principles of Biology I Lab: Intro to Cellular and Molecular Biology	1
PHYS R101	College Physics 1	4
PHYS R101L	College Physics 1 Laboratory	1
American Institutions/CSU Area D or IGETC Area 4		3
Arts and Humanities: CSU GE Area C1 or C2 or IGETC Area 3A or 3B		
<b>Units/Hours</b>		<b>13</b>
Spring Semester		Units/Hours
BIOL R122	Principles of Biology II	4
BIOL R122L	Principles of Biology II Laboratory	1
PHYS R102	College Physics 2	4
PHYS R102L	College Physics 2 Laboratory	1

American Institutions/CSU GE Area D or IGETC 4	3
Ethnic Studies: CSU GE Area F	
<b>Units/Hours</b>	<b>13</b>
<b>Total Units/Hours</b>	<b>60-61</b>

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

- Use logic and the scientific method to draw well supported conclusions pertaining to biological questions.
- Display written and verbal competency in the description and analysis of biological subject matter.
- Integrate ideas and values from different disciplines (e.g., mathematics, chemistry) to explain biological concepts or ideas.
- Conduct research and information gathering using a variety of sources such as texts, tables, graphs, maps, media, personal communication, observation, and electronic databases to answer biological questions.
- Understand and communicate complex relationships between natural and human systems.
- Recognize applications of biology in everyday life.
- Acquire knowledge and skills sufficient to allow one to pursue more advanced study in biological sciences or seek employment in biology-related fields, or upgrade skills for the workplace.