

## Biology Associate of Science Degree for Transfer

Complete the following program of study. (Major #C.6101.AS-T). Major requirements (33 units minimum).

The Associate in Science in Biology for Transfer Degree (AS-T in Biology) prepares students for transfer to a California State University to complete a bachelor's degree with a maximum of 60 units. Biology graduates at the bachelors' level are qualified for variety of technical positions with government or industry, and they are also well prepared to enter a graduate program in any other science or in engineering. Biology majors are welcomed into professional programs such as law, business, or medicine. Teaching at the high school level with a bachelors' degree or at a two-year college with a master's degree are additional career options for the biology major. For the biologist who obtain the PH.D., experimental research and or teaching at the university level or basic research in government or industry are options for gainful employment.

Name: \_\_\_\_\_ Student ID: \_\_\_\_\_ Date: \_\_\_\_\_

### Course Overview and Selection

**Required Core:**

Course	Course Description	Units	C - ID	Completed	In Progress	Planned
<b>BIOL 11A</b>	Biology for Science Majors 1	<b>5</b>	BIOL 190			
<b>BIOL 11B</b>	Biology for Science Majors 2	<b>5</b>	BIOL 140			
<b>CHEM 1A</b>	General Chemistry	<b>5</b>	CHEM 110			
<b>CHEM 1B</b>	General Chemistry and Qualitative Analysis	<b>5</b>	CHEM 120s			
<b>MATH 5A</b>	Math Analysis 1	<b>5</b>	MATH 210			

**List A – Select one option:**

Course	Course Description	Units	C - ID	Completed	In Progress	Planned
<b>PHY 2A &amp; PHY 2B</b>	General physics 1 & General Physics 2	<b>8</b>	PHYS 105 & PHYS 110			
<b>Or</b>						
<b>PHY 4A &amp; PHY4B</b>	Physics for Scientists and Engineers & Physics for Scientists and Engineers	<b>8</b>	PHYS 205 & PHYS 210			

**Total units for major does not include required general education or pre-requisite courses.**

**Comments:**

### Program Learning Outcomes:

1. Demonstrate basic knowledge of comparative anatomy and comparative physiology.
2. Demonstrate basic microscopic techniques required for all biology fields.
3. Critically evaluate scientific research.

The transfer major listed here reflects the core lower division requirements for many CSU and UC campuses. Students planning to transfer should contact a counselor for more information on program and transfer requirements. The Biological Sciences transfer major is designed for students who plan to earn a bachelor's degree in Biology or a related field. This transfer major also serves as a basis for students who want to pursue pre-medicine, pre-dentistry and pre-veterinarian degrees.

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 General Education Breadth requirements. The Biology AS-T degree presumes completion of IGETC for STEM, allowing for completion of 6 units of non-STEM GE work after transfer.
  - 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. Associate Degrees for Transfer (ADTs) also require that students must earn a "C" grade or better in all courses required for the major or area of emphasis.

### Notes:

- Requires the series of courses with the same C-ID:
- **\*C-ID CHEM 120S**-CHEM 1A & CHEM 1B **\*C-ID PHYS 100S**-PHYS 2A & PHYS 2B
- CSU GE- Breadth and IGETC advising sheets are available in Student Services, AC2-133 or online at [CCC GE \(CSU/UC\) GE and Major Sheets](#)
- Courses may double count in the major and CSU GE-Breadth or IGETC.

To see what CSU campuses accept this degree go to [www.icangotocollege.com](http://www.icangotocollege.com).