



# AST-Biology for Transfer Degree 19-20

## Recommended Program Sequence

All courses with a + sign indicate a pre-requisite or co-requisite

Term 1 (Semester: Maximum 19 units, 15 units recommended)	Units	Term 5 (Semester: Maximum 19 units, 15 units recommended)	Units
*CHEM 110+, General Chemistry (GE Area B1/IGETC 5A)	5	CSU GE B2 *BIOL 110+, General Molecular Cell Biology 5B	5
*MATH 150+, Calculus and Analytic Geometry (or as placed) B4/2	5	PHYS 101, Introductory Physics <i>or</i> PHYS 110+, General Physics	4
CSU GE Area A2 (English 101+) Area 1a IGETC	3	CSU GE Area A1 Area 1c (CSU only) or Area 3 A/H IGETC	3
CSU GE Area E (CSU Only) or Area 3 Humanities IGETC	3	CSU GE C2 LOTE 101 (UC only) (Any Term) **IGETC	5
<b>Total</b>	<b>16</b>	IGETC LOTE 102** (UC only) required w/out 2 yrs of H.S Foreign Language	<b>17</b>
Term 2: (Interession(6/3)-Summer (9/6) Max./Recommended units)		Term 6: (Interession(6/3)-Summer (9/6) Max./Recommended units)	
Term 3 (Semester: Maximum 19 units, 15 units recommended)	Units	Term 7 (Semester: Maximum 19 units, 15 units recommended)	Units
MATH 160+, Calculus & Analytic Geometry: Elect. (Transfer required)	4	BIOL 120+, General Organismal, Ecological & Evolutionary Biology	5
CHEM 120+, General Chemistry	5	PHYS 102+, Introductory Physics <i>or</i> PHYS 120+, General Physics	4
CSU Area D2 POLS 101 Area 4 IGETC	3	CSU Area D2 HIST 107 or 108 or 110 or 111 Area 4 IGETC	3
CSU GE Area A3 Area 1b IGETC	3	CSU GE C1/C2 LOTE 102+ (UC only) (Any Term) **IGETC	5
*Satisfies CSU Gen. Ed. or IGETC	Total	CSU B3 & IGETC 5C must correspond with a Science Lecture	Total
	<b>15</b>		<b>17</b>
Term 4: (Interession(6/3)-Summer (9/6) Max./Recommended units)		<b>Transfer or Graduate</b>	
CSU GE Area C1 Area 3Arts IGETC	3	*This degree may only be earned by completing the Intersegmental General Education Transfer Curriculum (IGETC) for STEM <i>or</i> the California State University General Education – Breadth Requirements for STEM. Please consult a counselor for additional information.	
CSU Area D2 Area 4 IGETC	3		
<b>Total</b>	<b>6</b>		

**Take Summer or Interession classes if needed to complete the program in a timely manner.**

**The state requires all students to have a Comprehensive Educational Plan. Make a counseling appointment as soon as enrollment is established on any term. Come by the Counseling Center or call.**

Required Courses:	Recommended Workshops for Transfer Students
*BIOL 110+, General Molecular Cell Biology 5	Transfer Students (those planning to transfer to a four-year university after attending AVC): You are encouraged to attend the following workshops while at AVC:  * Transfer Pathway Workshop (Term 1 or 2 or ASAP) * CSU/UC Application Workshop (approx. 1 year prior to transfer) * Learning Center Workshops
BIOL 120+, General Organismal, Ecological & Evolutionary Biology 5	
Required Electives A: Select 23 units	
*CHEM 110+, General Chemistry 5	
CHEM 120+, General Chemistry 5	UC-bound Transfer Students (in addition to above): *TAG Workshop *PIQ Workshop
*MATH 150+, Calculus and Analytic Geometry 5	
PHYS 101, Introductory Physics & PHYS 102+, Introductory <i>OR</i> 8	
PHYS 110+, General Physics & PHYS 120+, General Physics 8	
<b>Units Required for Major: 33</b>	
<i>other requirements for degree</i>	
CSU GE Breath (39 min.) or IGETC (34 min.) Pattern 34-39	
CSU Transferrable Elective Units to reach Degree Total 0	
<b>Minimum Units Required 60</b>	
*Courses denoted with an asterisk will fulfill the completion requirements for both the major and general education.	
<b>General Education Requirements:</b> Complete either the CSU Breath Requirements or IGETC.	
**LOTE: Language Other than English	
Electives: The remaining number of units (up to a minimum of 60) are considered electives. Any course that has already been counted toward (1) the general education requirements, or (2) the major, cannot be used as an elective. Any course with a designation of "CSU" at the end of a course description can be used as an elective for a CSU transfer and a "UC" designation for a UC school.	
<b>All transfer Degrees are a guarantee of admission to the CSU system (not a campus) and a path of admission to the UC system.</b>	

## AST-Biology for Transfer Degree 19-20 Recommended Program Sequence

Biology is the scientific study of life through the observation of structure, function, reproduction, growth, origin, evolution, and behavior of living organisms and their relation to each other and their environment. Biologists have deepened our understanding of processes and interactions on all levels of biological organization from elucidating cellular processes to fighting cancer to assessing interactions in communities that might help prevent the extinction of species. Studying biology provides a background for students to evaluate and understand new discoveries and to make informed decisions about the use of scientific knowledge to benefit all living organisms. The AS-T in Biology is designed to prepare students for transfer to a baccalaureate degree program in biology, particularly at the California State University. The Associate of Science in Biology for Transfer (AS-T) prepares student for upper division biology courses, including general biology, cell or molecular biology, organism biology, marine biology, botany, zoology, ecology, evolution, genetics, anatomy, physiology, microbiology, and agricultural sciences.

To earn an Associate in Science in Biology for Transfer (AS-T in Biology) degree a student must complete the following:

- (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.
  - (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 also require that students must earn a C or better in all courses required for the major or area of emphasis.

**Advisory:** A condition of enrollment that a student is advised, but not required, to meet before or in conjunction with enrollment in a course or educational program.

**Prerequisite:** A condition of enrollment that a student is required to meet in order to demonstrate current readiness for enrollment in a course or educational program. Prerequisites are enforced and a student will be blocked from enrolling or involuntarily dropped after enrolling if the student does not meet the stated prerequisite. A student must complete a course prerequisite with a satisfactory grade of A, B, C or P (pass).

**Corequisite:** A condition of enrollment consisting of a course that a student is required to simultaneously take in order to enroll in another course. Corequisites are enforced and a student will be blocked from enrolling if the student does not meet the stated corequisite.

**Grade Point Average Requirement:** An overall grade point average (G.P.A.) of 2.0 (“C” average) is required by AVC and the CSU system. The UC system requires a minimum of a 2.4 G.P.A. and significantly higher to be competitive.

**Double Counting:** While a course might satisfy more than one general education requirement, it may not be counted more than once for these purposes. A course may be used to satisfy both a general education requirement and a major or area of emphasis requirement.

• **Residency:** Minimum of 12 units completed at AVC with a minimum of 9 of those units completed from the certificate/major. (credit earned by examination will not be included in these 12 units) Title 5, Section 54000: <http://ccr.oal.ca.gov>.

**Requirements for Two or More Associate Degrees:** To be eligible for multiple associate degrees, a student must have completed all of the graduation requirements for each degree.

**Transfer:** Students planning to continue studies at a four-year college or university after AVC should visit the Transfer Resource Center or the Counseling Center and consult with a counselor as soon as possible to develop a plan of studies. Additional preparation for the major information on official transfer articulation agreements from AVC to many CSU/UC campuses can be found at the following Web site: [www.assist.org](http://www.assist.org)

The “**Catalog Rights Policy**” sets forth the criteria used for determining the degree requirements under which students may graduate. Please refer to the AVC Catalog for a detailed description or consult with a counselor.