



## Transfer Model Curriculum Template for Biology

**Approval Dates:** October 17, 2014; May 7, 2015;  
November 8, 2023 (Cal-GETC Compliance)

**CCC Associate Degree for Transfer Major or Area of Emphasis: Biology**

**CSU Majors deemed similar:** Biology

**Degree Type:** AS-T

**Total Minimum Semester Units for Major or Area of Emphasis:** 29 - 38

*Permissible maximum units for the major may vary depending on the units necessary for completion of the general education requirement and the extent of double-counting permitted.*

### Courses

**Required Core (8-12 units minimum):**

Title	C-ID Designation or other Justification	C-ID Units (or sample units)	Proposed Cal-GETC Area for double counting
Biology Sequence for Majors	BIOL 135S	8	5B/5C
<b>OR</b> Cell and Molecular Biology <b>and</b> Organismal Biology	BIOL 190	4	5B/5C
<b>OR</b> Cell and Molecular Biology <b>and</b> Organismal Biology, Ecology and Evolution	BIOL 140	4	5B/5C
<b>OR</b> Cell and Molecular Biology <b>and</b> Organismal Biology, Ecology and Evolution	BIOL 190	4	5B/5C
<b>OR</b> Cell and Molecular Biology <b>and</b> Zoology/Animal Diversity and Evolution <b>and</b> Botany/Plant Diversity and Ecology	BIOL 130S	8	5B/5C
	BIOL 190	4	5B/5C
	BIOL 150	4	5B/5C
	BIOL 155	4	5B/5C

**List A – Required courses (21-22 units minimum):**

Title	C-ID Designation or other Justification	C-ID Units (or sample units)	Proposed Cal-GETC Area for double counting
General Chemistry for Science Majors Sequence A	CHEM 120S	10	5A/5C
Single Variable Calculus I – Early Transcendentals	MATH 210	4	2
<b>OR</b> Single Variable Calculus I – Late Transcendentals	MATH 211	4	2
<b>OR</b> Calculus for Life and Social Sciences	AAM	3	2
Physics: Algebra/Trigonometry-Based Physics A <b>and</b>	PHYS 105	4	5A/5C
Physics: Algebra/Trigonometry-Based Physics B	PHYS 110	4	5A/5C
<b>OR</b> Calculus-Based Physics for Scientists and Engineers: A <b>and</b>	PHYS 205	4	5A/5C
Calculus-Based Physics for Scientists <b>and</b> Engineers: B	PHYS 210	4	5A/5C
<b>OR</b> Algebra/Trigonometry-Based Physics: AB	PHYS 100S	8	5A/5C

**List B – Select additional major preparation (if possible based on unit limitation and if required articulation exists, zero to one course (0-4 units minimum):**

Title	C-ID Designation or other Justification	C-ID Units (or sample units)	Proposed Cal-GETC Area for double counting
Select one (1) additional course that is articulated as major preparation at a CSU campus	AAM	0-4	

**TOTAL MAJOR UNITS      29-38\***  
 Cal-GETC Requirements      34  
 Double Counting GE      -10  
 Elective      7 to -2  
**Total Units      60**

*\* All units are based on the semester and indicated minimum units. The major must be a minimum of 18 semester units.*

**Notes and History**

List B should indicate if BIOL 135S is chosen, then one course from List B may be chosen. Then the total units for the major would be 29-34.

Prior TMC included:

*Use of a transferable general education pattern designed for STEM (i.e., IGETC or CSU GE Breadth for STEM) is presumed.*