

Transfer Model Curriculum (TMC) Template for Biology

CCC Major or Area of Emphasis: Biology

TOP Code: 040100

CSU Major(s): Biology

Total Units: 29 (all units are minimum semester units)

In the four columns to the right under the **College Program Requirements**, enter the college's course identifier, title and the number of units comparable to the course indicated for the TMC. If the course may be double-counted with either CSU-GE or IGETC, enter the GE Area to which the course is articulated. To review the GE Areas and associated unit requirements, please go to Chancellor's Office Academic Affairs page, RESOURCE section located at:

<http://extranet.cccco.edu/Divisions/AcademicAffairs/CurriculumandInstructionUnit/TransferModelCurriculum.aspx>

or the ASSIST website:

http://web1.assist.org/web-assist/help/help-csu_ge.html.

The units indicated in the template are the **minimum** semester units required for the prescribed course or list. All courses must be CSU transferable. **All courses with an identified C-ID Descriptor must be submitted to C-ID prior to submission of the Associate Degree for Transfer (ADT) proposal to the Chancellor's Office.**

Where no **C-ID Descriptor** is indicated, discipline faculty should compare their existing course to the example course(s) provided in the TMC at:

<http://www.c-id.net/degreereview.html>

Attach the appropriate ASSIST documentation as follows:

- *Articulation Agreement by Major (AAM)* demonstrating lower division preparation in the major at a CSU;
- *CSU Baccalaureate Level Course List by Department (BCT)* for the transfer courses; and/or,
- *CSU GE Certification Course List by Area (GECC)*.

The acronyms **AAM**, **BCT**, and **GECC** will appear in **C-ID Descriptor** column directly next to the course to indicate which report will need to be attached to the proposal to support the course's inclusion in the transfer degree. To access ASSIST, please go to <http://www.assist.org>.

Associate in Science in Biology for Transfer Degree						
College Name: Moorpark						
TRANSFER MODEL CURRICULUM (TMC)			COLLEGE PROGRAM REQUIREMENTS			
Course Title (units)	C-ID Descriptor	Course ID	Course Title	Units	GE Area	
					CSU	IGETC
REQUIRED CORE: (8-12 units)						
Select 1 of 2 options						
Option 1						
Biology Sequence for Majors (8)	BIOL 135S					
OR						
Option 2						
Cell and Molecular Biology (4)	BIOL 190	BIOL M02A	General Biology I	5	B2,	5B
AND		or	or		B3	5C
		BIOL M02AH	Honors: General Biology I	5	B2,	5B
					B3	5C
Organismal Biology (4)	BIOL 140	BIOL M02B	General Biology II	5	B2,	5B
OR	OR				B3	5C
Organismal Biology, Ecology and Evolution (8)	BIOL 130S					
OR	OR					
Zoology/Animal Diversity and Evolution (4)	BIOL 150					
AND	AND					
Botany/Plant Diversity and Ecology (4)	BIOL 155					

LIST A: (21-22 units)						
General Chemistry for Science Majors Sequence A (10)	CHEM 120S	CHEM M01A or CHEM M01AH and CHEM M01B	General Chemistry I or Honors: General Chemistry I and General Chemistry II	5 5 5	B1, B3 B1, B3 B1, B3	5A 5C 5A 5B
Single Variable Calculus I – Early Transcendentals (4) OR Single Variable Calculus I – Late Transcendentals (4) OR Calculus for Life and Social Sciences (3)	MATH 210 OR MATH 211 OR AAM	MATH M25A or MATH M25AH OR MATH M16A	Calculus with Analytic Geometry I or Honors: Calculus with Analytic Geometry I OR Applied Calculus I	5 5 3	4 B4 B4	2 2 2
Algebra/Trigonometry-Based Physics A (4) AND Algebra/Trigonometry-Based Physics B (4) OR Calculus-Based Physics for Scientists and Engineers: A (4) AND Calculus-Based Physics for Scientists and Engineers: B (4) OR Algebra/Trigonometry-Based Physics: AB (8)	PHYS 105 AND PHYS 110 OR PHYS 205 AND PHYS 210 OR PHYS 100S	PHYS M10A & PHYS M10AL & PHYS M10B & PHYS M10BL OR PHYS M20A & PHYS M20AL & PHYS M20B & PHYS M20BL	General Physics I and General Physics I Lab and General Physics II and General Physics II Lab OR Mechanics of Solids and Fluids and Mechanics of Solids and Fluids Lab and Thermodynamics, Electricity and Magnetism and Thermodynamics, Electricity and Magnetism Lab	4 1 4 1 4 1 4 1	B1 B3 B1 B3 B1 B3 B1 B3	5A 5C 5A 5C 5A 5C 5A 5C
LIST B: Select one (0-4 units) Any course articulated as lower division preparation in the Biology major at a CSU.	AAM					
Total Units for the Major:	29	Total Units for the Major:		33-35		
				Total Double-counted Units <i>(The transfer GE Area limits must <u>not</u> be exceeded)</i>		9 10
				*General Education (CSU-GE or IGETC for STEM) Units		33 31
				Elective (CSU Transferable) Units		1-3 2-4
				Total Degree Units (maximum)		60

NOTES:

- * This TMC presumes completion of IGETC or CSU-GE Breadth for STEM, allowing for completion of 6 units of non-STEM GE work after transfer.
- Required Core Options 1 and 2 represent Options 1-4 on the TMC.
- List B – Additional Major Preparation if possible based on unit limitation and required articulation exists (0-4 units).
Select one (1) additional course that is articulated as a major preparation at a CSU.