

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)

Template # 2014
Rev. 2: 05/18/2015

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: Santa Rosa Junior College						
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) AND	BIOL 190	BIO 2.1	Fundamentals of Biology (Cell and Molecular)	5.0	B2, B3	5B, 5C
Organismal Biology (4) OR	BIOL 140 OR					
Organismal Biology, Ecology and Evolution (8) OR	BIOL 130S OR					
Zoology/Animal Diversity and Evolution (4) AND	BIOL 150 AND	BIO 2.2	Fundamentals of Biology (Evolution, Genetics, and Zoology)	5.0	B2, B3	5B, 5C
Botany/Plant Diversity and Ecology (4)	BIOL 155	AND BIO 2.3	Fundamentals of Biology	5.0	B2,	5B,

		(Botany and Ecology)			B3	5C
LIST A: (21-22 units)						
General Chemistry for Science Majors Sequence A (10)	CHEM 120S	CHEM 3A & CHEM 3AL & CHEM 3B	General Chemistry: Part 1 Lecture General Chemistry: Part 1 Lab General Chemistry	3.0 2.0 5.0	B1 B3 B1, B3	5A 5C 5A, 5C
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 1A MATH 27	Calculus, First Course Precalculus Algebra and Trigonometry	5.0 6.0	B4 B4	2A 2A
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 20 & PHYS 20L PHYS 21 & PHYS 21L PHYS 20 & PHYS 20L & PHYS 21 & PHYS 21L	General Physics Lecture Part I General Physics Lab Part I General Physics Lecture Part II General Physics Lab Part II General Physics Lecture Part I General Physics Lab Part I General Physics Lecture Part II General Physics Lab Part II	3.0 1.0 3.0 1.0 1.0 3.0 1.0 3.0 1.0	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:			38	
		Total Double-counted Units <i>(The transfer GE Area limits must <u>not</u> be exceeded)</i>			-	9
		*General Education (CSU-GE or IGETC for STEM) Units			34	32
		Elective (CSU Transferable) Units			-	0
		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.

3. 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.