Transfer Model Curriculum (TMC) Template for Mathematics
CCC Major or Area of Emphasis: Mathematics
TOP Code: 170100
CSU Major(s): Mathematics
Total Units: 18 *(all units are semester units)*

Template # 2001
Rev. 3: 03/01/13

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. At a minimum, where there is an indicated **C-ID Descriptor** in the **REQUIRED CORE and LIST A**, the course must have been submitted to C-ID prior to completing the Associate Degree for Transfer (ADT) proposal for Chancellor's Office approval.
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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

and 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 Mathematics 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**	**CSU GE/ IGETC Area**	
REQUIRED CORE: (12 units from one of the following options)						
OPTION 1						
Single Variable Calculus I – Early Transcendentals (4) **OR**	MATH 210					
Single Variable Calculus I – Late Transcendentals (4)	MATH 211					
Single Variable Calculus II – Early Transcendentals (4) **OR**	MATH 220					
Single Variable Calculus II – Late Transcendentals (4)	MATH 221					
Multivariable Calculus (4)	MATH 230					
OR						
OPTION 2						
Single Variable Calculus Sequence (2 semesters or 3 quarters) (8)	MATH 900S	MATH 1A MATH 1B	Calculus, First Course Calculus, Second Course	5 5	B4 B4	

Course	Number				
OR					
Single Variable Calculus I – Early Transcendentals (4)	MATH 210				
AND					
Single Variable Calculus II – Early Transcendentals (4)	MATH 220				
OR					
Single Variable Calculus I – Late Transcendentals (4)	MATH 211				
AND					
Single Variable Calculus I – Late Transcendentals (4)	MATH 221				
Multivariable Calculus (4)	MATH 230	MATH 1B MATH 1C	Calculus, Second Course Calculus, Third Course	4	0
OR					
OPTION 3					
Single Variable and Multivariable Calculus Sequence (3 semester/4 quarters for 12 units)	*AAM*				
Choose a minimum of 6 units from the LISTS below with at least 3 units from LIST A					
LIST A: Select one to two (3-6 units)					
Ordinary Differential Equations (3)	MATH 240	MATH 2	Calculus, Fourth Course (differential equations)	3	none
Linear Algebra (3)	MATH 250	MATH 5	Introduction to Linear Algebra	3	B4
OR					
Differential Equations and Linear Algebra (5)	MATH 910	none			
LIST B: Select one (1-4 units)					
Discrete Mathematics (3)	MATH 160	MATH 4	Discrete Mathematics	4	B4
Calculus-based Physics for Scientists and Engineers: A (4)	PHYSICS 205	none	none		
Mathematical Computing Systems (1)	*AAM*				
Computer Programming (3)	*AAM*	CS 10	Introduction to Computer Programming	4	none
Proof (3)	*AAM*	MATH 6	Intro to Higher Math	4	none
Introduction to Statistics (3)	MATH 110		Department chooses not to include		
Total Units for the Major:	**18**	**Total Units for the Major:**		20-21	

Total Units that may be double-counted (*Ensure that the total for each Area does not exceed the limit for the specific Area*)	3
General Education (CSU GE or IGETC) Units	39
Elective (CSU Transferable) Units	4-3
Total Degree Units (maximum)	**60**

NOTE:

While 3 units are required from LIST A, no units are required from LIST B. The major must be a minimum of 18 semester units.