ADT Submission Form for Mathematics CCC Major or Area of Emphasis: Mathematics
TOP Code: 170100
CSU Major(s): Mathematics
Total Units: 18 *(all units are minimum semester units)*

Form # 2001
Rev. 4: 09/01/14

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 form. If the course may be double-counted with Cal-GETC, 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:

https://www.cccco.edu/About-Us/Chancellors-Office/Divisions/Educational-Services-and-Support/What-we-do/Curriculum-and-Instruction-Unit/Templates-For-Approved-Transfer-Model-Curriculum

or the ASSIST website: https://www.assist.org/.

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 form 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 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**	**Cal-GETC**
REQUIRED CORE: (12 units) **Select 1 of 3 options**					
Option 1: Single Variable Calculus Sequence *and* Multivariable Calculus	MATH 900S MATH 230	MATH 1A MATH 1B MATH 1B MATH 1C	Calculus, First Course Calculus, Second Course Calculus, Second Course Calculus, Third Course	5.00 5.00 5.00 4.00	2 2
Option 2: Single Variable Calculus I – Early Transcendentals *and*	MATH 210				
Single Variable Calculus II – Early Transcendentals *and*	MATH 220				
Multivariable Calculus	MATH 230				
Option 3: Single Variable Calculus I – Late Transcendentals *and*	MATH 211				
Single Variable Calculus II – Late Transcendentals *and*	MATH 221				
Multivariable Calculus	MATH 230				

TRANSFER MODEL CURRICULUM (TMC)		COLLEGE PROGRAM REQUIREMENTS				
Course Title (units)	C-ID Descriptor	Course ID	Course Title	Units	Cal-GETC
LIST A: Select (3 units minimum)					
Ordinary Differential Equations (3)	MATH 240	MATH 2	Calculus, Fourth Course-Differential Equations	4.00	
Introduction to Linear Algebra (3)	MATH 250	MATH 5	Introduction to Linear Algebra	4.00	
Differential Equations and Linear Algebra (5)	MATH 910S				
LIST B: Select additional courses/units so that List A and List B courses total a minimum of 6 units					
Discrete Mathematics (3)	MATH 160	MATH 4	Discrete Mathematics	4.00	2

Calculus-Based Physics for Scientists and Engineers: A (4 units) (Any course articulated as preparation for the physics major at a CSU)	PHYS 205	PHYS 40	Classical Mechanics for Scientists and Engineers	5.00	5A
Mathematical Computing (1 unit) Systems (see sample)	**AAM**				
Computer Programming (3) Computer Programming: Any programming course that is articulated preparation for the math major at a CSU.	**AAM**	CS 10A	Introduction to Programming Concepts and Methodologies	4.00	
Proof (3)	*AAM*	MATH 6	An Introduction to Higher Math	4.00	
Introduction to Statistics (3)	MATH 110	STAT C1000	Introduction to Statistics	4.00	2

			Total Units for the Major:	22-23	
Total Units for the Major:	**18**		**Total Units that may be double-counted** (*The transfer GE Area limits must <u>not</u> be exceeded*)		**3-6**
			General Education (Cal-GETC) Units		**34**
			Elective Units		**6-10**
			Total Degree Units (maximum)		**60**

NOTE:

* *All units are based on the semester and indicated minimum units. 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.*