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 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:

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:

TRANSFER MODEL CURRICULUM (TMC)		COLLEGE PROGRAM REQUIREMENTS				
Course Title (units)	C-ID Descriptor	Course ID	Course Title	Units	GE Area	
					CSU	IGETC
REQUIRED CORE: (12 units) **Select 1 of 3 options** **Option 1:**						
Single Variable Calculus I – Early Transcendentals (4) **OR** Single Variable Calculus I – Late Transcendentals (4)	MATH 210 **OR** MATH 211					

TRANSFER MODEL CURRICULUM (TMC)		COLLEGE PROGRAM REQUIREMENTS				
Course Title (units)	**C-ID Descriptor**	**Course ID**	**Course Title**	**Units**	**GE Area**	
Single Variable Calculus II – Early Transcendentals (4) **OR** Single Variable Calculus II – Late Transcendentals (4)	MATH 220 **OR** MATH 221					
Multivariable Calculus (4)	MATH 230					
OR						
Option 2:						
Single Variable Calculus Sequence (8) **OR** Single Variable Calculus I – Early Transcendentals (4) **AND** Single Variable Calculus II – Early Transcendentals (4) **OR** Single Variable Calculus I – Late Transcendentals (4) **AND** Single Variable Calculus II – Late Transcendentals (4)	MATH 900S **OR** MATH 210 **AND** MATH 220 **OR** MATH 211 **AND** MATH 221					
Multivariable Calculus (4)	MATH 230					

TRANSFER MODEL CURRICULUM (TMC)		COLLEGE PROGRAM REQUIREMENTS				
Course Title (units)	**C-ID Descriptor**	**Course ID**	**Course Title**	**Units**	**GE Area**	
OR						
Option 3:						
Single Variable and Multivariable Calculus Sequence (3 semester/4 quarters for 12 units)	***AAM***					
Select 6 units minimum 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					
Introduction to Linear Algebra (3)	MATH 250					
OR						

TRANSFER MODEL CURRICULUM (TMC)		COLLEGE PROGRAM REQUIREMENTS				
Course Title (units)	**C-ID Descriptor**	**Course ID**	**Course Title**	**Units**	**GE Area**	
Differential Equations and Linear Algebra (5)	MATH 910S					
LIST B: Select one (1-4 units)						
Discrete Mathematics (3)	MATH 160					
Calculus-Based Physics for Scientists and Engineers: A (4)	PHYS 205					
Mathematical Computing Systems (1)	***AAM***					

TRANSFER MODEL CURRICULUM (TMC)		COLLEGE PROGRAM REQUIREMENTS				
Course Title (units)	**C-ID Descriptor**	**Course ID**	**Course Title**	**Units**	**GE Area**	
Computer Programming (3)	***AAM***					
Proof (3)	***AAM***					
Introduction to Statistics (3)	MATH 110					
Total Units for the Major:	**18**		**Total Units for the Major:**			
			Total Units that may be double-counted (***The transfer GE Area limits must not be exceeded)***			
			General Education (CSU-GE or IGETC) Units		**39**	**37**
			Elective (CSU Transferable) Units			
			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.