

## General TMC Overview

Each Transfer Model Curriculum (TMC) represents a faculty-developed structure for establishing the major component of a California community college (CCC) degree. According to Title 5, and reflected in the language of Senate Bill 1440 (“SB 1440”, Padilla, 2010) and the implementing California Education Code (CEC) §66746, a CCC degree has a major or ‘area of emphasis’ consisting of a minimum of 18 semester units. TMCs are being developed as a means of facilitating a statewide response to SB 1440, legislation that mandates that all 112 CCCs offer “associate degrees for transfer”. Draft TMCs are developed by intersegmental faculty (CCC and CSU, primarily) and then made available for vetting at [www.c-id.net](http://www.c-id.net). Once a TMC is finalized, CCC faculty have the option of developing degrees that align with the TMC. Degrees that align with a TMC will reflect statewide faculty dialogue regarding appropriate preparation for a given major and will benefit from a streamlined approval process at the CCC Chancellor’s Office. Students who complete degrees that conform to the SB 1440 structure will benefit from admission preferences and other guarantees at the CSU upon transfer. More information on the TMC process, and SB 1440 more generally, can be found at [www.c-id.net](http://www.c-id.net) and [www.asccc.org](http://www.asccc.org).

TMCs are being developed within the infrastructure of C-ID (Course Identification Numbering System, [www.c-id.net](http://www.c-id.net)). C-ID is in the process of developing descriptors for courses that commonly transfer and then assigning “supranumbers” to CCC courses that match these intersegmentally-developed descriptors as a means of simplifying student movement within and between the segments of higher education in California. C-ID descriptors are also being used to describe the courses that compose a TMC. This does not mean that all courses within a TMC or a TMC-aligned degree must have a C-ID designation, but it does mean that the courses within the TMC should be comparable to the indicated C-ID descriptor. C-ID’s process for convening intersegmental faculty for the purpose of discussing curriculum provides a perfect venue for the discussion of TMC. When intersegmental faculty discipline groups meet to determine and review course descriptors, the development of a TMC was easily incorporated into the discussion.

In the development and review of any TMC it is important to remember that CEC §66746 mandates the development of degrees that both prepare a student for transfer **and** stand on their own as AA or AS degrees – students are completing a degree, not merely preparing for transfer. Each TMC consists of a required “core” and typically an additional list or lists of courses with varying flexibility that allows for the creation of degrees locally that are informed by intersegmental faculty dialogue and statewide CSU requirements. In the process of developing TMCs faculty were encouraged to consider and incorporate opportunities for “double-counting” by taking advantage of including courses within the TMC that are not only appropriate for the major, but general education courses and/or CSU graduation requirements. It is expected that CCCs will develop degrees that continue to best serve the CSUs to which their students transfer, within the parameters of the TMC. SB 1440 explicitly states that “A community college district is encouraged to consider the local articulation agreements and other work between the respective faculties from the affected community college and California State University campuses in implementing the requirements of this section.” Unless otherwise indicated by the discipline, a TMC-aligned degree need not include all indicated and available course options – a given CCC may choose to be more restrictive in the options it permits, due to local preferences, local university expectations, and/or existing course offerings.

The sample below illustrates the relationship between a TMC and potential CCC majors. Each sample degree shares the same core. Beyond that, the TMC permits the local CCC faculty to determine what best meets the needs of their students within the parameters defined by the TMC. It should be noted that not all courses must be in the discipline. In the example below, the degree **could** consist solely of math courses – but it need not. In addition, where the TMC outlines a lengthy list of options, the local CCC may offer a variety of options – or may limit student options as deemed appropriate. In developing a TMC-aligned degree the major component of the degree must be a minimum of 18 semester units. It may exceed 18, but must be designed such that it can be completed within 60 units. Without double-counting, a student would typically accumulate at least 57 units when working towards a degree with a major of 18 units (39 units for CSU GE breadth + 18 units in the major). In math, a TMC-aligned degree could have a major consisting of 24 units, presuming the double-counting of 3 units to fill CSU GE Area B4.

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## DRAFT Math Transfer Model Curriculum Sample TMC-Aligned Degrees

Math Transfer Model Curriculum	Associate in Science Degree in Math for Transfer			
Title (units)	CCC A	CCC B	CCC C	CCC D
<b>“Core” Courses: (minimum of 12 units)</b>				
<b>Required:</b>				
Calculus I (4)	X	X	X	X
Calculus II (4)	X	X	X	X
Calculus III (4)	X	X	X	X
<b>TMC-aligned degrees must include a minimum of 6 units from below with at least 3 units from Group A</b>				
<b>A. Provides Depth of understanding in subject major (0-6 units)</b>				
		*Students select one of:		
Differential Equations (3)	X	X	X	X
Linear Algebra (3)	X	X		
<b>B. Expands application of discipline (0-3 units)</b>				
		Students select a minimum of 3 units from below:		
Discrete Math (3)		X	X	
Physics (Physics majors course) (4)		X	X	
Mathematical Computing Systems (1)		X		X
Computer programming course (3)		X		X
Proof (3)		X		
Statistics (3)		X		
TOTAL UNITS				

\*If CCC B desired, it could permit students to select both courses in list A and no courses in list B.

It is not expected that every CCC would offer all courses in the TMC. In addition, there may be some courses that appear in a TMC that are deemed upper division by some CSUs. As there are inconsistencies across the CSUs, this is unavoidable. There may be courses that are upper division at one CSU and lower division major preparation at another. CCCs are encouraged to continue to offer courses and design their degrees with their local CSUs in mind.