ADT Submission Form for Computer Science Template # 2007
CCC Major or Area of Emphasis: Computer Science Rev. 3: 10/14/16
TOP Code: 070600
CSU Major(s): Computer Science
Total Units: 28 (*all units are minimum semester units*)

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.***

Associate in Science in Computer Science for Transfer Degree College Name: MOORPARK COLLEGE					
TRANSFER MODEL CURRICULUM (TMC)		**COLLEGE PROGRAM REQUIREMENTS**			
Course Title (units)	**C-ID Descriptor**	**Course ID**	**Course Title**	**Units**	**Cal-GETC**
REQUIRED CORE: (28 units)					
Programming Concepts and Methodology I (CS1) (3)	COMP 122	CS M125	Programming Concepts and Methodology I	3	
Programming Concepts and Methodology II (CS2) (3)	COMP 132	CS M135	Programming Concepts and Methodology I	3	
Computer Architecture and Organization (3)	COMP 142	CS M145	Programming Concepts and Methodology I	3	
Discrete Structures (3)	COMP 152	CS M155 OR MATH M21	Discrete Structures OR Discrete Mathematics	3 3	2 2
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) **OR** Single Variable Calculus Sequence (8)	MATH 210 **AND** MATH 220 **OR** MATH 211 **AND** MATH 221 **OR** MATH 900S	MATH M25A **OR** MATH M25AH **AND** MATH M25B **OR** MATH M25BH	Calculus with Analytic Geometry I **OR** Honors: Calculus with Analytic Geometry I **AND** Calculus with Analytic Geometry II **OR** Honors: Calculus with Analytic Geometry II	5 5 5 5	2 2 2 2
Calculus-Based Physics for Scientists and Engineers: A	PHYS 205	PHYS M20A **AND** PHYS M20AL	Mechanics of Solids and Fluids **AND** Mechanics of Solids and Fluids Lab	4 1	5A 5C

Calculus-Based Physics for Scientists and Engineers: B (4)	PHYS 210	BIOL M02A	General Biology I	5	5B, 5C
OR	OR	**OR**	**OR**		
Cell and Molecular Biology (4)		BIOL M02AH	Honors: General Biology I	5	5B, 5C
OR	BIOL 190	**OR**	**OR**		
Organismal Biology (4)	OR	BIOL M02B	General Biology II	5	5B, 5C
OR		**OR**	**OR**		
General Chemistry for Science Majors I, with Lab (5)	BIOL 140	BIOL M02BH	Honors: General Biology II	5	5B, 5C
	OR	**OR**	**OR**		
		CHEM M01A	General Chemistry I	5	5B, 5C
	CHEM 110	**OR**	**OR**		
		CHEM M01AH	Honors: General Chemistry I	5	5B, 5C
Total Units for the Major:	**28-29***	**Total Units for the Major:**		**32**	

Total Units that may be double-counted (***The transfer GE Area limits must not be exceeded)***	**10**
General Education (Cal-GETC) Units	**34**
Elective Units	**4**
Total Degree Units (maximum)	**60**

Notes and History

Summary of Feedback Including Issues and Concerns - Items of concern from the vetting process, along with the results of a direct survey of the CSUs involved (with a high response rate), were addressed: Requirement of Physics and Calculus. After reviewing the feedback, and in light of separate ABET accreditation requirements for Computer Science programs, the FDRG determined that students would continue to need both Calculus courses to be successful. To allow many more community colleges to implement this TMC, however, two alternatives to PHYS 210 were implemented which students could double-count for GE, specifically to meet Area B2.