Transfer Model Curriculum (TMC) Template for Physics
CCC Major or Area of Emphasis: Physics
TOP Code: 190200
CSU Major(s): Physics; Physics Education
Total Units: 24 *(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 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 <u>minimum</u> 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 Physics for Transfer Degree College Name: Moorpark						
TRANSFER MODEL CURRICULUM (TMC)		**COLLEGE PROGRAM REQUIREMENTS**				
Course Title (units)	**C-ID Descriptor**	**Course ID**	**Course Title**	**Units**	**GE Area**	
					CSU	**IGETC**
REQUIRED CORE: (24 units)						
Calculus-Based Physics for Scientists and Engineers: ABC (12)	PHYS 200S					
OR						
Calculus-Based Physics for Scientists and Engineers: A (4)	PHYS 205	PHYS M20A	Mechanics of Solids and Fluids	4	B1	5A
Calculus-Based Physics for Scientists and Engineers: B (4)	PHYS 210	and PHYS M20AL	and Mechanics of Solids and Fluids Lab	1	B3	5C
Calculus-Based Physics for Scientists and Engineers: C (4)	PHYS 215	and PHYS M20B	and Thermodynamics, Electricity and Magnetism	4	B1	5A
		and PHYS M20BL	and Thermodynamics, Eletricity and Magnetism Lab	1	B3	5C
		and PHYS M20C	and Wave Motion, Optics and Modern Physics	4	B1	5A
		and PHYS M20CL	and Wave Motion, Optics and Modern Physics Lab	1	B3	5C
Select 1 of 2 options **Option 1:** (12 units)						
Single Variable Calculus I – Early Transcendentals (4)	MATH 210	MATH M25A	Calculus with Analytic Geometry I	5	B4	2
OR	**OR**	or				
Single Variable Calculus I – Late Transcendentals (4)	MATH 211	MATH M25AH	Honors: Calculus with Analytic Geometry I	5	B4	2
Single Variable Calculus II – Early Transcendentals (4)	MATH 220	MATH M25B	Calculus with Analytic Geometry II	5	B4	2
OR	**OR**					
Single Variable Calculus II – Late Transcendentals (4)	MATH 221					
Multivariable Calculus (4)	MATH 230	MATH M25C	Calculus with Analytic Geometry III	5	B4	2

OR					
Option 2: (12 units)					
Single Variable Calculus Sequence (8) Multivariable Calculus (4)	MATH 900S MATH 230	MATH M25A or MATH M25AH & MATH M25B & MATH M25C	Calculus with Analytic Geometry I Honors: Calculus with Analytic Geometry I Calculus with Analytic Geometry II Calculus with Analytic Geometry III	5 5 5 5	2 2 2 2
Total Units for the Major:	**24**	**Total Units for the Major:**		30	
		Total Units that may be double-counted (*The transfer GE Area limits must <u>not</u> be exceeded*)			7
		General Education (CSU-GE or IGETC) Units		39	37
		Elective (CSU Transferable) Units			0
		Total Degree Units (maximum)		**60**	