Transfer Model Curriculum (TMC) Template for Physics Template # 2005
CCC Major or Area of Emphasis: Physics Rev. 3: 03/01/13
TOP Code: 190200 Revised May 9, 2013
CSU Major(s): Physics; Physics Education
Total Units: 24 *(all units are 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 **minimum** semester units required for the prescribed course or list. All courses must be CSU transferable. ***All courses must be submitted to C-ID prior to completing the Associate Degree for Transfer (ADT) proposal for Chancellor's Office approval.***

Associate in Science in Physics 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**	**CSU GE/ IGETC Area**
REQUIRED CORE: (24 units)					
Calculus-based Physics for Scientists and Engineers: ABC (12)	PHYS 200S	PHYS 40 PHYS 41 PHYS 42 PHYS 43	Classical Mechanics for Scientists and Engineers Waves, Optics, and Thermodynamics for Scientists and Engineers Electricity and Magnetism for Scientists and Engineers Modern Physics for Scientists and Engineers	5 4 4 2	B1, B3 B1, B3 B1, B3 B1
OR					
Calculus-based Physics for Scientists and Engineers: A (4) **AND** Calculus-based Physics for Scientists and Engineers: B (4) **AND** Calculus-based Physics for Scientists and Engineers: C (4)	PHYS 205 PHYS 210 PHYS 215		Click here to enter text.		
AND					
Single Variable Calculus I – Early Transcendentals (4) **OR** Single Variable Calculus I – Late Transcendentals (4)	MATH 210 MATH 211				
Single Variable Calculus II – Early Transcendentals (4) **OR** Single Variable Calculus II – Late Transcendentals (4)	MATH 220 MATH 221				
Multivariable Calculus (4)	MATH 230	Click here to enter	Click here to enter text.	Click here to	Click here to

		text.		enter text.	enter text.
OR					
Single Variable Calculus Sequence (8) **AND** Multivariable Calculus (4)	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 5 4	B4 B4 None
Total Units for the Major:	**24**		**Total Units for the Major:**	29	
			Total Units that may be double-counted (***Ensure that the total for each Area does not exceed the limit for the specific Area)***		7
			General Education (CSU GE or IGETC*) Units		37*
			Elective (CSU Transferable) Units		1
			Total Degree Units (maximum)		**60**

*** NOTE – to keep this major under 60 units, only the GE IGETC pattern can be used**