

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 **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 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	GE Area		
					CSU	IGETC	
REQUIRED CORE: (24 units)							
Calculus-Based Physics for Scientists and Engineers: ABC (12)	PHYS 200S	PHYS 40 and PHYS 41 and PHYS 42 and PHYS 43	Classical Mechanics for Scientists and Engineers Waves, Optics, and Thermodynamics for Scientists & Engineers Electricity and Magnetism for Scientists and Engineers Modern Physics for Scientists and Engineers	5 4 4 3	B1, B3 B1, B3 B1, B3 B1		
		OR					
		Calculus-Based Physics for Scientists and Engineers: A (4)	PHYS 205				
		Calculus-Based Physics for Scientists and Engineers: B (4)	PHYS 210				
Calculus-Based Physics for Scientists and Engineers: C (4)	PHYS 215						
Select 1 of 2 options							
Option 1: (12 units)							
Single Variable Calculus I – Early Transcendentals (4)	MATH 210						
OR							
Single Variable Calculus I – Late Transcendentals (4)	MATH 211						
Single Variable Calculus II – Early Transcendentals (4)	MATH 220						
OR							
Single Variable Calculus II – Late Transcendentals (4)	MATH 221						
Multivariable Calculus (4)	MATH 230						
OR							
Option 2: (12 units)							
Single Variable Calculus Sequence (8)	MATH 900S	MATH 1A	Calculus, First Course	5	B4	2A	
Multivariable Calculus (4)	MATH 230	MATH 1B	Calculus, Second Course	5	B4	2A	

		MATH 1B	Calculus, Second Course	5	B4	2A
		MATH 1C	Calculus, Third Course	4		
Total Units for the Major:	24	Total Units for the Major:		30		
		Total Units that may be double-counted <i>(The transfer GE Area limits must <u>not</u> be exceeded)</i>			7	
		General Education (CSU-GE or IGETC) Units			39	37
		Elective (CSU Transferable) Units			1	
		Total Degree Units (maximum)			60	