

**UC Transfer Pathway (UCTP) Template for Physics**

**CCC Major or Area of Emphasis:** Physics

**TOP Code:** 190200

**UC Major(s):** Physics

**Total Units:** 40 (all units are semester units)

Template # 0001

Original: 08/02/2019

**This template is for the UC Transfer Pathway in Physics; it is not subject to the limitations set forth by SB 1440/ SB 440. The template guarantees admission into the University of California system in a Physics program for students who meet the minimum 3.5 GPA in the major.**

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. This template's general education requirements presume completion of two courses in Area 3 and two courses in Area 4 after transfer to the University of California to complete an entire IGETC pattern. This represents typical course taking patterns for the discipline.

The units indicated in the template are the **minimum** semester units required for the prescribed course or list. All courses must be UC transferable. **All courses must be submitted to C-ID prior to completing the proposal for Chancellor's Office approval.**

**Note:** Narrative needs to explain two deferred courses in Area 3 and two deferred courses in Area 4.

Associate in Science in Physics for UC Transfer					
College Name: MOORPARK					
UC TRANSFER PATHWAY (UCTP)		COLLEGE PROGRAM REQUIREMENTS			
Course Title (units)	C-ID Descriptor	Course ID	Course Title	Units	IGETC Area
<b>REQUIRED CORE: (40 units)</b>					
General Chemistry for Science Majors Sequence A (10)	CHEM 120S	CHEM M01A	General Chemistry I	5	5A, 5C
		OR CHEM M01AH	OR Honors: General Chemistry I	5	5A, 5C
		AND CHEM M01B	AND General Chemistry II	5	5A, 5C
Calculus-based Physics for Scientists and Engineers: A (12) <b>OR</b> Calculus-based Physics for Scientists and Engineers: A (4) <b>AND</b> Calculus-based Physics for Scientists and Engineers: B (4) <b>AND</b> Calculus-based Physics for Scientists and Engineers: C (4)	PHYS 200S	PHYS M20A/L AND PHYS M20B/L	Mechanics of Solids and Fluids and Lab AND Thermodynamics, electricity and Magnetism and Lab	4/1	5A, 5C
	<b>OR</b> PHYS 205 <b>AND</b> PHYS 210 <b>AND</b> PHYS 215			4/1	5A, 5C
		AND PHYS M20C/L	Wave Motion, Optics and Modern Physics and Lab	4/1	5A, 5C
Single Variable Calculus I – Early Transcendentals (4) <b>OR</b> Single Variable Calculus I – Late Transcendentals (4)	MATH 210	MATH M25A	Calculus with Analytic Geometry I	5	2
	<b>OR</b> MATH 211	OR MATH M25AH	OR Honors: Calculus with Analytic Geometry I	5	2
Single Variable Calculus II – Early Transcendentals (4) <b>OR</b> Single Variable Calculus II – Late Transcendentals (4)	MATH 220	MATH M25B	Calculus with Analytic Geometry II	5	2
	<b>OR</b> MATH 221				

Multivariable Calculus (4)	MATH 230	MATH M25C	Calculus with Analytic Geometry III	5	2
Ordinary Differential Equations (3) <b>AND</b> Linear Algebra (3) <b>OR</b> Differential Equations and Linear Algebra (5)	MATH 240 AND MATH 250 OR MATH 910-S	MATH M35 AND MATH M31	Applied Differential Equations AND Introduction to Linear Algebra	3  3	2  2
<b>IGETC General Education Requirements</b> (20 units)					
Area 1A Freshman Composition (3 units)					
Area 1B Critical Thinking (3 units)					
Area 3 Arts and Humanities (3 units)					
Area 4 Social and Behavior Science (3 units)					
Area 5B Biological Science (4 units)					
Area 6 Language other than English (0-4 units)					
<b>Total Units for the Major:</b>	<b>40</b>	<b>Total Units for the Major:</b>		46	
		<b>General Education (IGETC) Units</b>			25
		<b>Elective (IGETC Transferable) Units</b>			0
		<b>Total Degree Units</b>			71