Physics, AS-UCTP

Program Basics

Department:	Physics*
Award Type:	A.S. Degree Major
Description:	The University of California Transfer Pathway (UCTP) Associate in Science Degree in Physics aligns with the expected major preparation for students planning to transfer to a University of California campus in physics. Students that complete this degree with an overall and major GPA of 3.5 are guaranteed admission to the University of California system.
TOP code:	1902.00
Program Control Number:	No value
Transferability:	No value
Student Program Award:	Associate of Science (A.S.) degree
Maximum credits:	33
Minimum credits:	33
Committee Approval Date:	December 2, 2019
Trustees Review Approval Date:	January 13, 2020
CCCCO Approval Date:	No value

Proposal Details

Proposal Start:	Fall 2020
Program Justification:	This program guarantees students admission to the UC system as a physics major if they complete the course requirements with a 3.5 GPA.

Program Requirements

Physics, AS-UCTP

Required Courses

Course Code	Course Title	Credits
MATH180	Single Variable Calculus I	4
MATH185	Single Variable Calculus II	4
MATH290	Linear Algebra	3
PHYS250A	Physics for Scientists and Engineers I	5
PHYS250C	Physics for Scientists and Engineers III	5
	Total Credits	**37**

A.S. Degree Major

Rule	Credits
Major Requirements:	33
MATH180 - Single Variable Calculus I	4
OR	
MATH180H - Honors Single Variable Calculus I	4
AND	
MATH185 - Single Variable Calculus II	4
AND	
MATH280 - Intermediate Calculus	4
AND	
MATH290 - Linear Algebra	3
AND	
MATH295 - Differential Equations	3
AND	
PHYS250A - Physics for Scientists and Engineers I	5
AND	
PHYS250B - Physics for Scientists and Engineers II	5
AND	

PHYS250C - Physics for Scientists and Engineers III	5
Total Credits	**33**

Program Recommended Sequence

First Semester

MATH180 - Single Variable Calculus I	4
OR	
MATH180H - Honors Single Variable Calculus I	4
Total Credits	**4**

Second Semester

MATH185 - Single Variable Calculus II	4
AND	
PHYS250A - Physics for Scientists and Engineers I	5
Total Credits	**9**

Third Semester

MATH280 - Intermediate Calculus	4
AND	
PHYS250B - Physics for Scientists and Engineers II	5
Total Credits	**9**

Fourth Semester

MATH290 - Linear Algebra	3
AND	
MATH295 - Differential Equations	3
AND	

PHYS250C - Physics for Scientists and Engineers III	5
Total Credits	**11**

Program Outcomes

UCTP in Physics, AS

PSLO	Performance
Apply appropriate physical laws and mathematical techniques to analyze various physical situations.	100