Articulation Agreement by Major

Effective during the 2018-2019 Academic Year

To: University of California, Merced General Catalog, Semester From: Sierra College General Catalog, Semester

PHYSICS, B.S.

SCHOOL OF NATURAL SCIENCES

**Physics, B.S. offers emphasis tracks in: Atomic/Molecular/Optical/Condensed Matter, Physics, Biophysics, Mathematical Physics, and Custom emphasis. Transfer applicants must choose an emphasis in this major.

REQUIREMENTS FOR ADMISSION

For admission to the Physics B.S. major, students must earn a minimum overall GPA of 2.8 or better, and <u>must</u> complete classes articulated with the following UC Merced courses prior to admission:

° CHEM 2, MATH 21, MATH 22, PHYS 8, and PHYS 9

Transfer students seeking fall admission should have the following completed by the spring term preceding fall enrollment at UC Merced:

- 1. All minimum admissions requirements including appropriate courses in math and the equivalent of WRI 1 and WRI 10 (see articulation by department on ASSIST.org).
- At least one social science, Humanities or Arts course listed in the general education information for the School of Natural Sciences. Two courses (one from each area) is <u>strongly</u> recommended.
 All major preparation requirements as stated above.

ADVANCED PLACEMENT INFORMATION

Advanced Placement (AP) and International Baccalaureate (IB) Examination note:

AP and IB examination credit policies are detailed in the 2017-18 UC Merced general catalog viewable online at:

http://catalog.ucmerced.edu/content.php?catoid=7&navoid=647#AP_IB_

ALERT It is strongly recommended that you obtain a full transcript of your academic records from each of the colleges and universities you have attended before you start your UC application. Applicants must report ALL grades in ALL courses--transferable and not transferable--from all institutions attended. Applicants are solely responsible for the integrity of their self-reported academic record in the UC application.

Applicants are encouraged to clear any No Pass, D, or F letter grade received in UC Transfer course. Applicants are most competitive in the Admissions Process with fewer withdrawls and/or repeated course work in major preparation.

All course work must be completed with a 'C' or better.

Following these guidelines will assist you to be more competitive for admission to your UC Merced major.

If you have any questions abour UC Merced admissions policy, please email: admissions@ucmerced.edu

Completion of IGETC is not recommended but is accepted for this major.

All course work must be completed with a letter grade of "C" or better.

For the most up-to-date information about transferring to UC Merced, please visit admissions.ucmerced.edu/transfer_requirements. Information about applying for a Transfer Admission Guarantee is available at admissions.ucmerced.edu/tag.

ADDITIONAL LOWER DIVISION REQUIREMENT

**In addition to the lower division courses listed below, students must complete one "breadth" UC transferable science or engineering elective that is not a physics or math course, and must be 3-4 semester units.

LOWER DIVISION MAJOR PREPARATION COURSES

CHEM 2 - General Chemistry I (4.00)	\leftarrow	CHEM 1A - General Chemistry I (5.00)
	·	Or
		CHEM 3A - General Chemistry I - Part 1
		(3.00)
		And
		CHEM 3B - General Chemistry I - Part 2
		(3.00)

CSE 20 - Introduction to Computing I (2.00)	\leftarrow	CSCI 12 - Programming Concepts and Methodology I (3.00) Or
		CSCI 46 - System Programming with C (3.00)
		Or
		CSCI 66 - Object-Oriented Programming
	•	Using C++ (3.00)
	Or	
MATH 50 - MATLAB Programming (2.0	→ (00	No Course Articulated
MATH 21 - Calculus I for Physical	←	MATH 30 - Analytical Geometry and
Sciences & Engineering (4.00)	•	Calculus I (4.00)
MATH 22 - Calculus II for Physical		MATH 31 - Analytical Geometry and
Sciences & Engineering (4.00)		Calculus II (4.00)
MATH 23 - Vector Calculus (4.00)	<u></u>	MATH 32 - Analytical Geometry and
		Calculus III (4.00)
MATH 24 - Introduction to Linear	\rightarrow	MATH 33 - Differential Equations and
Algebra and Differential Equations (4.0	0)	Linear Algebra (6.00)
MATH 32 - Probability and Statistics (4.00)	\leftarrow	No Course Articulated
Course recommended to be take	en	
at university		
PHYS 8 - Introductory Physics I for	<u> </u>	PHYS 205 - Principles of Physics:
Physical Sciences (4.00)		Mechanics (4.00)
PHYS 9 - Introductory Physics II for		PHYS 210 - Principles of Physics:
Physical Sciences (4.00)		Electricity and Magnetism (3.00)
PHYS 10 - Introductory Physics III (4.00)) 🔔	PHYS 215 - Principles of Physics: Heat,
		Waves and Modern Physics (3.00)
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END OF AGREEMENT