Articulation Agreement by Major

Effective during the 2018-2019 Academic Year

To: University of California, Merced General Catalog, Semester From: Gavilan 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 must complete classes articulated with the following UC Merced courses prior to admission:

O 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).
- 2. 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.
- 3. 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=764#AP_IB

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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 will not be competitive in the admission process if their academic records show unsuccessful attempts of UC-transferable courses as demonstrated by one or more of the following:

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 <u>admissions.ucmerced.edu/transfer_requirements.</u>
Information about applying for a Transfer Admission Guarantee is available at <u>admissions.ucmerced.edu/tag.</u>

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 (5.00)
CSE 20 - Introduction to Computing I (2.00)	←	CSIS 5 - C++ Scientific Programming (3.00)
		Or

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	CSIS 18 - UNIX/C++ Programming (3.00)
	And
	CSIS 18L - UNIX C++ Programming Lab
	(1.00)
	Or
	CSIS 24 - JAVA PROGRAMMING I (3.00)
	Or
	CSIS 43 - C Programming (4.00)
	Or
	CSIS 45 - C++ Programming I (3.00)
Or	

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←	MATH 1A - Single-Variable Calculus and Analytic Geometry (4.00)
\leftarrow	MATH 1B - Single-Variable Calculus and Analytic Geometry (4.00)
←	MATH 1C - Multivariable Calculus (4.00
	MATH 2 - Linear Algebra (3.00) And MATH 2C - Differential Equations (3.00)
	No Course Articulated
←	PHYS 4A - Physics for Scientists and Engineers - Mechanics (4.00)
	PHYS 4B - Physics for Scientists and Engineers - Electricity and Magnetism (4.00)
\leftarrow	PHYS 4C - Physics for Scientists and Engineers - Heat, Optics, Modern Physic
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END OF AGREEMENT

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