# Articulation Agreement by Major

Effective during the 2018-2019 Academic Year

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

 $\circ\,$  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 <u>solely responsible</u> 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 (5.00)
<b>CSE 20</b> - Introduction to Computing I (2.00)	$\leftarrow$	<b>CIS 12</b> - Programming Fundamentals (4.00)
		Or CIS 18 - Object Oriented Programming -
		Java (4.00)

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Or	
$\leftarrow$	MATH 4 - Matlab Programming (3.00)
$\leftarrow$	MATH 50A - Differential Calculus (4.00)
$\leftarrow$	MATH 50B - Integral Calculus (4.00)
$\leftarrow$	MATH 50C - Multivariable Calculus (4.00)
$\leftarrow$	MATH 45 - Linear Algebra (4.00) And MATH 55 - Differential Equations (4.00)
$\leftarrow$	No Course Articulated
$\leftarrow$	<b>PHYS 4A</b> - Calculus-Based Physics: Mechanics (4.00)
$\leftarrow$	<b>PHYS 4B</b> - Calculus-Based Physics: Electricity and Magnetism (4.00)
$\leftarrow$	<b>PHYS 4C</b> - Calculus-based Physics: Heat, Optics, Waves, and Modern Physics (4.00)
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# **END OF AGREEMENT**