Articulation
Agreement by Major
Effective during the 2018-2019 Academic Year

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

- 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 strongly 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=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)	←	**CHEM M01A** - General Chemistry I (5.00)
		Or
		CHEM M01AH - Honors: General Chemistry I (5.00)
CSE 20 - Introduction to Computing I (2.00)	←	**CS M10A** - Introduction to Computer

		Programming Using Structured C++ (4.00)
	Or	
		CS M10J - Introduction to Computer Programming Using Java (4.00)

Or

MATH 50 - MATLAB Programming (2.00)	←	No Course Articulated

MATH 21 - Calculus I for Physical Sciences & Engineering (4.00)	←	**MATH M25A** - Calculus with Analytic Geometry I (5.00)
		Or
		MATH M25AH - Honors: Calculus with Analytic Geometry I (5.00)
MATH 22 - Calculus II for Physical Sciences & Engineering (4.00)	←	**MATH M25B** - Calculus with Analytic Geometry II (5.00)
MATH 23 - Vector Calculus (4.00)	←	**MATH M25C** - Calculus and Analytic Geometry III (5.00)
MATH 24 - Introduction to Linear Algebra and Differential Equations (4.00)	←	**MATH M31** - Introduction to Linear Algebra (3.00)
		And
		MATH M35 - Applied Differential Equations (3.00)
MATH 32 - Probability and Statistics (4.00) ■ Course recommended to be taken at university	←	No Course Articulated
PHYS 8 - Introductory Physics I for Physical Sciences (4.00)	←	**PHYS M20A** - Mechanics of Solids and Fluids (4.00)
		And
		PHYS M20AL - Mechanics of Solids and Fluids Laboratory (1.00)
PHYS 9 - Introductory Physics II for Physical Sciences (4.00)	←	**PHYS M20B** - Thermodynamics, Electricity and Magnetism (4.00)
		And
		PHYS M20BL - Thermodynamics, Electricity and Magnetism Laboratory (1.00)
PHYS 10 - Introductory Physics III (4.00)	←	**PHYS M20C** - Wave Motion, Optics and Modern Physics (4.00)
		And
		PHYS M20CL - Wave Motion, Optics and Modern Physics Laboratory (1.00)

END OF AGREEMENT