Articulation Agreement by Major

Effective during the 2018-2019 Academic Year

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

MATERIALS SCIENCE AND ENGINEERING, B.S.

REQUIREMENTS FOR ADMISSION

For admission to the Materials Science and Engineering, B.S. major, students must earn an overall GPA of 2.4 or better, demonstrate readiness for a rigorous course of study in Engineering, and <u>must</u> complete classes articulated with the following UC Merced courses prior to admission:

O CHEM 2, MATH 21, MATH 22, MATH 23, MATH 24, PHYS 8, and PHYS 9

**Completion of the equivalent of PHYS 10 prior to admission is strongly recommended for this major.

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

- 1. All major preparation requirements as stated above.
- 2. All minimum admission requirements including appropriate courses in math and the equivalent of WRI 1 and WRI 10 (see articulation by department on ASSIST.org).
- 3. At least one course from the 'Arts and Humanities' or 'Social and Behavioral Sciences' section of the General Education requirements for School of Engineering, shown here:

Three courses with at least one from the arts and one from the humanities from the Arts and Humanities IGETC areas:

- O Area 3A (Arts)
- Area 3B (Humanities)

AND

Three courses from at least two disciplines, or an interdisciplinary sequence from the Social and Behavioral Sciences IGETC area:

O Area 4

NOTE: Completion of IGETC (certified by your community college) satisfies all of the above requirements.

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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

The School of Engineering strongly discourages completion of IGETC as students are encouraged to focus primarily on lower division major preparation.

****Please Note:** Courses used to satisfy lower-division major preparation may simultaneously satisfy lower-division gerneral education for the School of Engineering.

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>

LOWER DIVISION MAJOR PREPARATION COURSES

CHEM 2 - General Chemistry I (4.00) CHEM 11 - General Chemistry I (5.00)

ENGR 45 - Introduction to Materials (4.00)

No Course Articulated

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ENGR 57 - Statics and Dynamics (4.00)	\leftarrow	ENGR 12 - Statics (3.00)
	•	And
		ENGR 16 - Dynamics (3.00)
MATH 21 - Calculus I for Physical	\leftarrow	MATH 7 - Calculus 1 (5.00)
Sciences & Engineering (4.00)		
MATH 22 - Calculus II for Physical	\leftarrow	MATH 8 - Calculus 2 (5.00)
Sciences & Engineering (4.00)	`	
MATH 23 - Vector Calculus (4.00)	\leftarrow	MATH 11 - Multivariable Calculus (5
MATH 24 - Introduction to Linear	←	MATH 13 - Linear Algebra (3.00)
Algebra and Differential Equations (4.00)	`	And
		MATH 15 - Differential Equations (3
MATH 32 - Probability and Statistics	\leftarrow	No Course Articulated
(4.00)		
Course recommended to be taken		
at university		
PHYS 8 - Introductory Physics I for	\leftarrow	PHYSCS 8 - Calculus-Based Physic
Physical Sciences (4.00)		with Lab (4.00) Or
		PHYSCS 21 - Mechanics with Lab (
		And
		PHYSCS 23 - Fluids, Waves,
		Thermodynamics, Optics with Lab (
PHYS 9 - Introductory Physics II for	—	PHYSCS 9 - Calculus-Based Physic
Physical Sciences (4.00)	•	with Lab (4.00)
		Or
		PHYSCS 22 - Electricity and Magne
		with Lab (5.00)
		And
		PHYSCS 23 - Fluids, Waves,

COMPLETE ONE OF THE FOLLOWING

BIO 1 - Contemporary Biology (4.00)	\leftarrow	BIOL 21 - Cell Biology and Evolution (4.00)
		And
		BIOL 23 - Organismal and
		Environmental Biology (5.00)
BIO 5 - Concepts & Issues in Biology Today (4.00)	\leftarrow	No Course Articulated
ESS 1 - Introduction to Earth Systems Science (4.00)	←	No Course Articulated
ESS 5 - Introduction to Biological Earth Systems (4.00)	←	No Course Articulated

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COMPLETE ONE OF THE FOLLOWING			
ME 21 - Engineering Computing (4.00)	←	No Course Articulated	
	Or		
BIOE 21 - Computing for Bioengineers (3.00)	←	No Course Articulated	
	Or		
CSE 20 - Introduction to Computing I (2.00)	\leftarrow	CS 50 - C Programming (3.00)	
	And		
CSE 21 - Introduction to Computing II (2.00)	←	CS 50 - C Programming (3.00)	

END OF AGREEMENT

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