# Articulation Agreement by Major

Effective during the 2018-2019 Academic Year

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

## **APPLIED MATHEMATICAL SCIENCES, B.S.**

## SCHOOL OF NATURAL SCIENCES

\*\*Applied Mathematical Sciences, B.S. offers emphases in: Computational Biology, Computer Science, Computational & Data Sciences, Economics, Engineering, Environmental, and Physics. Transfer applicants must choose an emphasis in the major.\*\*

## **REQUIREMENTS FOR ADMISSION**

For admission to the Applied Mathematical Sciences 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:

 $\circ\,$  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.

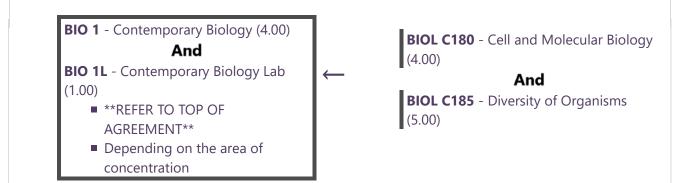
For the most up-to-date information about transferring to UC Merced, please visit <u>admissions.ucmerced.edu/transfer\_requirements.</u> Information about applying for a Transfer Admission Guarantee is available at <u>admissions.ucmerced.edu/tag.</u>

## ADDITIONAL LOWER DIVISION REQUIREMENTS

\*\*For the Applied Mathematical Sciences and Computational Biology emphasis tracks, students must take BIO 1 and BIO 1L and earn a grade of B or better.\*\*

\*\*For the Applied Mathematical Sciences and Environmental emphasis tracks, students will take ESS 1 to fulfill emphasis track requirements, and must take a different course to fulfill the lower division course requirement\*\*

#### COMPLETE ONE OF THE FOLLOWING



## MATHEMATICS REQUIREMENT (COMPLETE THE FOLLOWING FIVE COURSES):

<b>MATH 21</b> - Calculus I for Physical Sciences & Engineering (4.00)	$\leftarrow$	<b>MATH C180</b> - Calculus 1 (5.00)
<b>MATH 22</b> - Calculus II for Physical Sciences & Engineering (4.00)	$\leftarrow$	<b>MATH C185</b> - Calculus 2 (5.00)
MATH 23 - Vector Calculus (4.00)	$\leftarrow$	MATH C280 - Calculus 3 (5.00)
<b>MATH 24</b> - Introduction to Linear Algebra and Differential Equations (4.00)	$\leftarrow$	<b>MATH C285</b> - Introduction to Linear Algebra and Differential Equations (5.00)
MATH 32 - Probability and Statistics (4.00)	$\leftarrow$	No Course Articulated
<ul> <li>Course recommended to be taken at university</li> </ul>		

## COMPLETE ONE OF THE FOLLOWING

<b>CSE 20</b> - Introduction to Computing I (2.00)	$\leftarrow$	No Course Articulated	
ME 21 - Engineering Computing (4.00)	$\leftarrow$	No Course Articulated	

## **CHEMISTRY REQUIREMENT**

CHEM 2 - General Chemistry I (4.00)

**CHEM C180** - General Chemistry A (4.00)

**And CHEM C180L** - General Chemistry Lab A (1.00)

PHYSICS REQUIREMENT			
PHYS 8 - Introductory Physics I for	$\leftarrow$	PHYS C185 - Calculus Based Physics:	
Physical Sciences (4.00)		Mech (4.00)	
		And	
		PHYS C280 - Calculus Based Physics:	
		Elec/Mag (4.00)	
PHYS 9 - Introductory Physics II for		PHYS C185 - Calculus Based Physics:	
Physical Sciences (4.00)		Mech (4.00)	
		And	
		PHYS C280 - Calculus Based Physics:	
		Elec/Mag (4.00)	

# **END OF AGREEMENT**