# Articulation Agreement by Major

**Effective during the 2018-2019 Academic Year** 

To: University of California, Merced General Catalog, Semester From: Lake Tahoe Community College General Catalog, Quarter

## 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:

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=647#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 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>

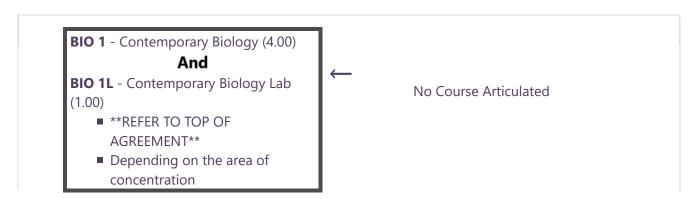
Information about applying for a Transfer Admission Guarantee is available at <u>admissions.ucmerced.edu/tag.</u>

## **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



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ESS 1 - Introduction to Earth Systems Science (4.00) ■ **REFER TO TOP OF AGREEMENT** ■ Depending on the area of concentration	<b>←</b>	No Course Articulated
<b>ESS 5</b> - Introduction to Biological Earth Systems (4.00)	←	No Course Articulated

# MATHEMATICS REQUIREMENT (COMPLETE THE FOLLOWING FIVE COURSES):

MATH 21 - Calculus I for Physical	←	MAT 105 - Calculus and Analytic
Sciences & Engineering (4.00)	`	Geometry (Part I) (5.00)
MATH 22 - Calculus II for Physical	<b>←</b>	MAT 106 - Calculus and Analytic
Sciences & Engineering (4.00)	`	Geometry (Part II) (5.00)
		And
		MAT 107 - Calculus and Analytic
		Geometry (Part III) (5.00)
MATH 23 - Vector Calculus (4.00)	$\leftarrow$	MAT 202 - Calculus and Analytic
		Geometry (Part IV) (5.00)
MATH 24 - Introduction to Linear	←	<b>MAT 203</b> - Linear Algebra (5.00)
Algebra and Differential Equations (4.00)	•	And
		MAT 204 - Differential Equations (5.00)
MATH 32 - Probability and Statistics	<b>←</b>	No Course Articulated
(4.00)	`	
<ul><li>Course recommended to be taken</li></ul>		
at university		

COMPLETE ONE OF THE FOLLOWING				
<b>CSE 20</b> - Introduction to Computing I (2.00)	$\leftarrow$	CIS 120A - Computer Programming I (4.00)		
ME 21 - Engineering Computing (4.00)	$\leftarrow$	No Course Articulated		

# CHEMISTRY REQUIREMENT

CHEM 2 - General Chemistry I (4.00) ← CHM 101 - General Chemistry I (5.75)

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PHYSICS REQUIREMENT				
<b>PHYS 8</b> - Introductory Physics I for Physical Sciences (4.00)	<b>←</b>	<b>PHY 107</b> - General Physics (Calculus) - Mechanics (6.00)		
<b>PHYS 9</b> - Introductory Physics II for Physical Sciences (4.00)	$\leftarrow$	<b>PHY 108</b> - General Physics (Calculus) - Waves, Thermodynamics and Light (6.00		

# **END OF AGREEMENT**

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