# Articulation Agreement by Major

Effective during the 2018-2019 Academic Year

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

## CHEMICAL SCIENCES, B.S.

### THE SCHOOL OF NATURAL SCIENCES

\*\*Chemical Sciences, B.S. offers emphases in Chemistry, Biological Chemistry, Materials Chemistry and Environmental Chemistry. Transfer applicants must choose an emphasis in this major.\*\*

#### **REQUIREMENTS FOR ADMISSION**

For admission to the Chemical Sciences 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 & CHEM 10
MATH 21 & MATH 22
PHYS 8 & 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: <u>http://catalog.ucmerced.edu/content.php?catoid=7&navoid=647#AP\_IB</u>

\*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.

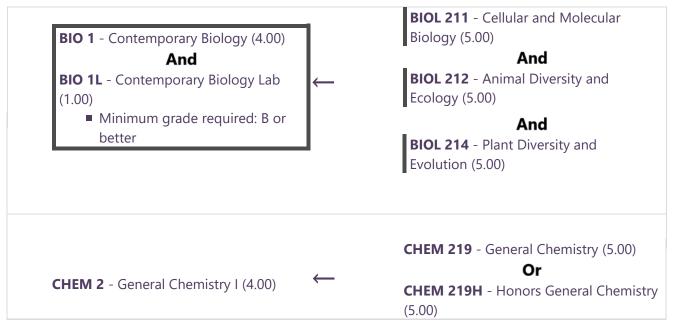
All course work must be completed with a letter grade of "C" or better.

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 INFORMATION

BIO 1L is recommended, but not required. CHEM 100L credit may be earned, but is not required.

#### LOWER DIVISION MAJOR PREPARATION COURSES



CHEM 10 - General Chemistry II (4.00)	$\leftarrow$	<b>CHEM 229</b> - General Chemistry and Qualitative Analysis (5.00)
<b>CHEM 8</b> - Principles of Organic Chemistry (3.00) <b>And</b> <b>CHEM 8L</b> - Principles of Organic Chemistry Lab (1.00)	← 	<b>CHEM 249</b> - Organic Chemistry I (5.00)
CHEM 100 - Organic Synthesis and Mechanism (3.00) And CHEM 100L - Organic Chemistry Laboratory (1.00) Lower division credit only		CHEM 259 - Organic Chemistry II (5.00)
<b>MATH 21</b> - Calculus I for Physical Sciences & Engineering (4.00)	<del>~~</del>	MATH 180 - Single Variable Calculus I (4.00) Or MATH 180H - Honors Single Variable Calculus I (4.00)
<b>MATH 22</b> - Calculus II for Physical Sciences & Engineering (4.00)	$\leftarrow$	MATH 185 - Single Variable Calculus II (4.00)
MATH 23 - Vector Calculus (4.00)	←	MATH 280 - Intermediate Calculus (4.00)
<b>MATH 24</b> - Introduction to Linear Algebra and Differential Equations (4.00)	$\leftarrow$	<b>MATH 287</b> - Introduction to Linear Algebra and Differential Equations (5.00)
<ul> <li>MATH 32 - Probability and Statistics (4.00)</li> <li>Course recommended to be taken at university</li> </ul>	<del>~</del>	No Course Articulated
<b>PHYS 8</b> - Introductory Physics I for Physical Sciences (4.00)	$\leftarrow$	PHYS 217 - Engineering Physics I (4.00)
<b>PHYS 9</b> - Introductory Physics II for Physical Sciences (4.00)	$\leftarrow$	PHYS 227 - Engineering Physics II (4.00)

#### COMPLETE ONE OF THE FOLLOWING

<b>CSE 5</b> - Introduction to Computer Applications (4.00)	No Course Articulated
<b>CSE 20</b> - Introduction to Computing I (2.00)	CMPR 112 - JAVA Programming (3.00) Or
	<b>CMPR 121</b> - Programming Concepts (3.00)
MATH 15 - Introduction to Scientific Data	No Course Articulated

## **END OF AGREEMENT**