

# Articulation Agreement by Major

Effective during the 2018-2019 Academic Year

To: University of California, Merced  
General Catalog, Semester

From: Orange Coast 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).
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](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 withdrawals 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 about UC Merced admissions policy, please email: [admissions@ucmerced.edu](mailto: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](https://admissions.ucmerced.edu/transfer_requirements).

Information about applying for a Transfer Admission Guarantee is available at [admissions.ucmerced.edu/tag](https://admissions.ucmerced.edu/tag).

### 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

**BIO 1** - Contemporary Biology (4.00)

**And**

**BIO 1L** - Contemporary Biology Lab (1.00)

- Minimum grade required: B or better



**BIOL A180** - Cell and Molecular Biology (4.00)

**And**

**BIOL A182** - Zoology (3.00)

**And**

**BIOL A182L** - Zoology Laboratory (1.00)

**And**

**BIOL A183** - Botany (3.00)

**And**

**BIOL A183L** - Botany Laboratory (1.00)

**And**

**BIOL A185** - Diversity of Organisms (5.00)

<b>CHEM 2</b> - General Chemistry I (4.00) ←	<b>CHEM A180</b> - General Chemistry A (5.00)
<b>CHEM 10</b> - General Chemistry II (4.00) ←	<b>CHEM A185</b> - General Chemistry B (5.00)
<div style="border: 2px solid black; padding: 5px;"> <b>CHEM 8</b> - Principles of Organic Chemistry (3.00)  <p style="text-align: center;"><b>And</b></p> <b>CHEM 8L</b> - Principles of Organic Chemistry Lab (1.00) </div> ←	<b>CHEM A220</b> - Organic Chemistry A (3.00) <p style="text-align: center;"><b>And</b></p> <b>CHEM A220L</b> - Organic Chemistry Lab A (2.00)
<div style="border: 2px solid black; padding: 5px;"> <b>CHEM 100</b> - Organic Synthesis and Mechanism (3.00)  <p style="text-align: center;"><b>And</b></p> <b>CHEM 100L</b> - Organic Chemistry Laboratory (1.00)  <ul style="list-style-type: none"> <li>▪ Lower division credit only</li> </ul> </div> ←	<b>CHEM A225</b> - Organic Chemistry B (3.00) <p style="text-align: center;"><b>And</b></p> <b>CHEM A225L</b> - Organic Chemistry Lab B (2.00)
<b>MATH 21</b> - Calculus I for Physical Sciences & Engineering (4.00) ←	<b>MATH A180</b> - Calculus 1 (4.00) <p style="text-align: center;"><b>Or</b></p> <b>MATH A180H</b> - Honors Calculus 1 (4.00)
<b>MATH 22</b> - Calculus II for Physical Sciences & Engineering (4.00) ←	<b>MATH A182H</b> - Honors Calculus 1 and 2 (5.00) <p style="text-align: center;"><b>Or</b></p> <b>MATH A185</b> - Calculus 2 (4.00) <p style="text-align: center;"><b>Or</b></p> <b>MATH A185H</b> - Honors Calculus 2 (4.00)
<b>MATH 23</b> - Vector Calculus (4.00) ←	<b>MATH A280</b> - Calculus 3 (4.00) <p style="text-align: center;"><b>Or</b></p> <b>MATH A280H</b> - Honors Calculus 3 (5.00)
<b>MATH 24</b> - Introduction to Linear Algebra and Differential Equations (4.00) ←	<b>MATH A285</b> - Introduction to Linear Algebra and Differential Equations (4.00) <p style="text-align: center;"><b>Or</b></p> <b>MATH A285H</b> - Honors Introduction to Linear Algebra and Differential Equations (5.00)
<b>MATH 32</b> - Probability and Statistics (4.00) <ul style="list-style-type: none"> <li>▪ Course recommended to be taken at university</li> </ul> ←	No Course Articulated
<b>PHYS 8</b> - Introductory Physics I for Physical Sciences (4.00) ←	<b>PHYS A185</b> - Calculus-Based Physics: Mechanics (4.00)
<b>PHYS 9</b> - Introductory Physics II for Physical Sciences (4.00) ←	<b>PHYS A280</b> - Calculus-Based Physics: Electricity/Magnetism (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) ←	<b>CS A131</b> - Python Programming 1 (4.00) <b>Or</b> <b>CS A140</b> - Introduction to C#.NET Programming (4.00) <b>Or</b> <b>CS A150</b> - C++ Programming Language 1 (4.00) <b>Or</b> <b>CS A170</b> - Java Programming 1 (4.00)
<b>MATH 15</b> - Introduction to Scientific Data Analysis (2.00) ←	No Course Articulated

**END OF AGREEMENT**