

# Articulation Agreement by Major

Effective during the 2018-2019 Academic Year

To: University of California, Merced  
General Catalog, Semester

From: De Anza College  
General Catalog, Quarter

## 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 coursework 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**

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 6A** - Form and Function in the Biological World (6.00)

**And**

**BIOL 6B** - Cell and Molecular Biology (6.00)

		<b>And</b> <b>BIOL 6C</b> - Evolution and Ecology (6.00)
<b>CHEM 2</b> - General Chemistry I (4.00)	←	<b>CHEM 1A</b> - General Chemistry (5.00) <b>And</b> <b>CHEM 1B</b> - General Chemistry (5.00)
<b>CHEM 10</b> - General Chemistry II (4.00)	←	<b>CHEM 1B</b> - General Chemistry (5.00) <b>And</b> <b>CHEM 1C</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 12A</b> - Organic Chemistry (5.00) <b>And</b> <b>CHEM 12B</b> - Organic Chemistry (5.00)
<b>CHEM 100</b> - Organic Synthesis and Mechanism (3.00) <b>And</b> <b>CHEM 100L</b> - Organic Chemistry Laboratory (1.00) ■ Lower division credit only	←	<b>CHEM 12B</b> - Organic Chemistry (5.00) <b>And</b> <b>CHEM 12C</b> - Organic Chemistry (5.00)
<b>MATH 21</b> - Calculus I for Physical Sciences & Engineering (4.00)	←	<b>MATH 1A</b> - Calculus (5.00) <b>And</b> <b>MATH 1B</b> - Calculus (5.00)
<b>MATH 22</b> - Calculus II for Physical Sciences & Engineering (4.00)	←	<b>MATH 1C</b> - Calculus (5.00)
<b>MATH 23</b> - Vector Calculus (4.00)	←	<b>MATH 1D</b> - Calculus (5.00)
<b>MATH 24</b> - Introduction to Linear Algebra and Differential Equations (4.00)	←	<b>MATH 2A</b> - Differential Equations (5.00) <b>And</b> <b>MATH 2B</b> - Linear Algebra (5.00)
<b>MATH 32</b> - Probability and Statistics (4.00) ■ Course recommended to be taken at university	←	No Course Articulated
<b>PHYS 8</b> - Introductory Physics I for Physical Sciences (4.00)	←	<b>PHYS 4A</b> - Physics for Scientists and Engineers: Mechanics (6.00)
<b>PHYS 9</b> - Introductory Physics II for Physical Sciences (4.00)	←	<b>PHYS 4B</b> - Physics for Scientists and Engineers: Electricity and Magnetism (6.00) <b>And</b>

**PHYS 4C** - Physics for Scientists and Engineers: Fluids, Waves, Optics and Thermodynamics (6.00)

**COMPLETE ONE OF THE FOLLOWING**

<b>CSE 5</b> - Introduction to Computer Applications (4.00) ←	<b>CIS 3</b> - Business Information Systems (4.50)
<b>CSE 20</b> - Introduction to Computing I (2.00) ←	<b>CIS 22A</b> - Beginning Programming Methodologies in C++ (4.50) <b>Or</b> <b>CIS 36A</b> - Introduction to Computer Programming Using Java (4.50) <b>Or</b> <b>CIS 26A</b> - C as a Second Programming Language (4.50) <b>Or</b> <b>CIS 26B</b> - Advanced C Programming (4.50)
<b>MATH 15</b> - Introduction to Scientific Data Analysis (2.00) ←	No Course Articulated

**END OF AGREEMENT**