

# Articulation Agreement by Major

Effective during the 2018-2019 Academic Year

To: University of California, Merced  
General Catalog, Semester

From: Contra Costa College  
General Catalog, Semester

## BIOLOGICAL SCIENCES, B.S.

### THE SCHOOL OF NATURAL SCIENCES

\*\*Biological Sciences, B.S. offers five emphasis tracks: Molecular and Cell Biology, Ecology and Evolutionary Biology, Human Biology, Developmental Biology, and Microbiology and Immunology. Transfer applicants must choose an emphasis in this major.\*\*

### REQUIREMENTS FOR ADMISSION

For admission to the Biological 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:

- BIO 1 & 1L (with B or better grades in each course),
- CHEM 2, CHEM 10, CHEM 8 & 8L, CHEM 100
- MATH 11 OR MATH 21, MATH 12 OR MATH 22

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/tagg](https://admissions.ucmerced.edu/tagg).

## 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



**BIOSC 140** - Principles of Biology (4.00)

**And**

**BIOSC 141** - Principles of Biology (4.00)

**Or**

**BIOSC 145** - Organismal Biology (4.00)

**And**

**BIOSC 147** - Cell and Molecular Biology (4.00)

**BIO 2** - Introduction to Molecular Biology (4.00)

**And**

**BIO 2L** - Introduction to Molecular Biology Lab (1.00)



No Course Articulated

<b>CHEM 2</b> - General Chemistry I (4.00) ←	<b>CHEM 120</b> - General College Chemistry I (5.00)
<b>CHEM 10</b> - General Chemistry II (4.00) ←	<b>CHEM 121</b> - General College Chemistry II (5.00)
<div style="border: 2px solid black; padding: 5px;"> <b>CHEM 8</b> - Principles of Organic Chemistry (3.00)  <b>And</b>  <b>CHEM 8L</b> - Principles of Organic Chemistry Lab (1.00) </div> ←	<b>CHEM 226</b> - Organic Chemistry I (5.00)
<div style="border: 2px solid black; padding: 5px;"> <b>CHEM 100</b> - Organic Synthesis and Mechanism (3.00)  <b>And</b>  <b>CHEM 100L</b> - Organic Chemistry Laboratory (1.00) <ul style="list-style-type: none"> <li>■ Lab is not required</li> <li>■ Lower division credit only</li> </ul> </div> ←	<b>CHEM 227</b> - Organic Chemistry II (5.00)

<b>MATH 11</b> - Calculus I (4.00) ←	No Course Articulated
<b>Or</b>	
<b>MATH 21</b> - Calculus I for Physical Sciences & Engineering (4.00) ←	<b>MATH 190</b> - Analytic Geometry and Calculus I (5.00)
<b>MATH 12</b> - Calculus II (4.00) ←	No Course Articulated
<b>Or</b>	
<b>MATH 22</b> - Calculus II for Physical Sciences & Engineering (4.00) ←	<b>MATH 191</b> - Analytic Geometry and Calculus II (4.00)

**CHOOSE 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>COMP 251</b> - Fundamentals of Computer Science C++ (4.00) <b>Or</b> <b>ENGIN 160</b> - Programming Concepts and Methodologies for Engineers (4.00)
<b>MATH 15</b> - Introduction to Scientific Data Analysis (2.00) ←	No Course Articulated

**CHOOSE ONE OF THE FOLLOWING:**

<b>ENVE 105</b> - Environmental Data Analysis (3.00) ←	No Course Articulated
<b>MATH 18</b> - Statistics for Scientific Data Analysis (4.00) ←	<b>MATH 164</b> - Introduction to Probability and Statistics (4.00)
<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>PSY 10</b> - Analysis of Psychological Data (4.00) ←	<b>MATH 164</b> - Introduction to Probability and Statistics (4.00)

<b>PHYS 8</b> - Introductory Physics I for Physical Sciences (4.00) ←	<b>PHYS 130</b> - General Physics I (4.00)
<b>Or</b>	
<b>PHYS 18</b> - Introductory Physics 1 for Biological Sciences (4.00) ←	<b>PHYS 120H</b> - General College Physics I (Honors) (4.00)
<b>PHYS 9</b> - Introductory Physics II for Physical Sciences (4.00) ←	<b>PHYS 230</b> - General Physics II (4.00)
<b>Or</b>	
<b>PHYS 19</b> - Introductory Physics II for Biological Sciences (4.00) ←	<b>PHYS 121H</b> - General College Physics II (Honors) (4.00)

**END OF AGREEMENT**