# Articulation Agreement by Major

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

*To: University of California, Merced*
*General Catalog, Semester*

*From: Cuyamaca 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

***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 admissions.ucmerced.edu/transfer_requirements.
Information about applying for a Transfer Admission Guarantee is available at admissions.ucmerced.edu/tag.

## LOWER DIVISION MAJOR PREPARATION COURSES

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| **BIO 1** - Contemporary Biology (4.00)<br>**And**<br>**BIO 1L** - Contemporary Biology Lab (1.00)<br>▪ Minimum grade required: B or better | ← | **BIO 230** - Principles of Cellular, Molecular and Evolutionary Biology (4.00)<br>**And**<br>**BIO 240** - Principles of Ecology, Evolution and Organismal Biology (5.00) |
| **BIO 2** - Introduction to Molecular Biology (4.00)<br>**And**<br>**BIO 2L** - Introduction to Molecular Biology Lab (1.00) | ← | No Course Articulated |
| **CHEM 2** - General Chemistry I (4.00) | ← | **CHEM 141** - General Chemistry I (5.00) |
| **CHEM 10** - General Chemistry II (4.00) | ← | **CHEM 142** - General Chemistry II (5.00) |

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| **CHEM 8** - Principles of Organic Chemistry (3.00)<br>**And**<br>**CHEM 8L** - Principles of Organic Chemistry Lab (1.00) | ← | **CHEM 231** - Organic Chemistry I (5.00) |
| **CHEM 100** - Organic Synthesis and Mechanism (3.00)<br>**And**<br>**CHEM 100L** - Organic Chemistry Laboratory (1.00)<br>■ Lab is not required<br>■ Lower division credit only | ← | No Course Articulated |

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| **MATH 11** - Calculus I (4.00) | ← | No Course Articulated |
| **Or** | | |
| **MATH 21** - Calculus I for Physical Sciences & Engineering (4.00) | ← | **MATH 180** - Analytic Geometry and Calculus I (5.00) |
| **MATH 12** - Calculus II (4.00) | ← | No Course Articulated |
| **Or** | | |
| **MATH 22** - Calculus II for Physical Sciences & Engineering (4.00) | ← | **MATH 280** - Analytic Geometry and Calculus II (4.00) |

**CHOOSE ONE OF THE FOLLOWING:**

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| **CSE 5** - Introduction to Computer Applications (4.00) | ← | **CIS 110** - Principles of Information Systems (4.00) |
| **CSE 20** - Introduction to Computing I (2.00) | ← | **CS 181** - Introduction to C++ Programming (4.00)<br>**Or**<br>**CS 182** - Introduction to JAVA Programming (4.00) |
| **MATH 15** - Introduction to Scientific Data Analysis (2.00) | ← | No Course Articulated |

## CHOOSE ONE OF THE FOLLOWING:

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| **ENVE 105** - Environmental Data Analysis (3.00) | ← | No Course Articulated |
| **MATH 18** - Statistics for Scientific Data Analysis (4.00) | ← | **MATH 160** - Elementary Statistics (4.00) |
| **MATH 32** - Probability and Statistics (4.00)<br>▪ Course recommended to be taken at university | ← | No Course Articulated |
| **PSY 10** - Analysis of Psychological Data (4.00) | ← | No Course Articulated |

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| **PHYS 8** - Introductory Physics I for Physical Sciences (4.00) | ← | **PHYC 190** - Mechanics and Heat (5.00) |
| **Or** | | |
| **PHYS 18** - Introductory Physics 1 for Biological Sciences (4.00) | ← | **PHYC 130** - Fundamentals of Physics (4.00) |
| **PHYS 9** - Introductory Physics II for Physical Sciences (4.00) | ← | **PHYC 200** - Electricity and Magnetism (5.00) |
| **Or** | | |
| **PHYS 19** - Introductory Physics II for Biological Sciences (4.00) | ← | **PHYC 131** - Fundamentals of Physics (4.00) |

## END OF AGREEMENT