

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

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 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

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

BIO 1 - Contemporary Biology (4.00) ←

And

BIO 1L - Contemporary Biology Lab (1.00)

- Minimum grade required: B or better

BIOL 211 - Cellular and Molecular Biology (5.00)

And

BIOL 212 - Animal Diversity and Ecology (5.00)

And

BIOL 214 - Plant Diversity and Evolution (5.00)

BIO 2 - Introduction to Molecular Biology (4.00) ←

And

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

No Course Articulated

CHEM 2 - General Chemistry I (4.00) ←	CHEM 219 - General Chemistry (5.00) Or CHEM 219H - Honors General Chemistry (5.00)
CHEM 10 - General Chemistry II (4.00) ←	CHEM 229 - General Chemistry and Qualitative Analysis (5.00) CHEM 249 - Organic Chemistry I (5.00)
CHEM 8 - Principles of Organic Chemistry (3.00) And CHEM 8L - Principles of Organic Chemistry Lab (1.00) ←	
CHEM 100 - Organic Synthesis and Mechanism (3.00) And CHEM 100L - Organic Chemistry Laboratory (1.00) ▪ Lab is not required ▪ Lower division credit only ←	CHEM 259 - Organic Chemistry II (5.00)

MATH 11 - Calculus I (4.00) ←	MATH 150 - Calculus for Biological, Management and Social Sciences (4.00)
	Or
MATH 21 - Calculus I for Physical Sciences & Engineering (4.00) ←	MATH 180 - Single Variable Calculus I (4.00) Or MATH 180H - Honors Single Variable Calculus I (4.00)
MATH 12 - Calculus II (4.00) ←	No Course Articulated
	Or
MATH 22 - Calculus II for Physical Sciences & Engineering (4.00) ←	MATH 185 - Single Variable Calculus II (4.00)

CHOOSE ONE OF THE FOLLOWING:

CSE 5 - Introduction to Computer Applications (4.00) ←	No Course Articulated
CSE 20 - Introduction to Computing I (2.00) ←	CMPR 112 - JAVA Programming (3.00) Or CMPR 121 - Programming Concepts (3.00)

MATH 15 - Introduction to Scientific Data Analysis (2.00) ←

No Course Articulated

CHOOSE ONE OF THE FOLLOWING:

ENVE 105 - Environmental Data Analysis (3.00) ←

No Course Articulated

MATH 18 - Statistics for Scientific Data Analysis (4.00) ←

No Course Articulated

MATH 32 - Probability and Statistics (4.00) ←

No Course Articulated

- Course recommended to be taken at university

PSY 10 - Analysis of Psychological Data (4.00) ←

MATH 219 - Statistics and Probability (4.00)

PHYS 8 - Introductory Physics I for Physical Sciences (4.00) ←

PHYS 217 - Engineering Physics I (4.00)

Or

PHYS 18 - Introductory Physics 1 for Biological Sciences (4.00) ←

PHYS 210 - Principles of Physics I (4.00)

PHYS 9 - Introductory Physics II for Physical Sciences (4.00) ←

PHYS 227 - Engineering Physics II (4.00)

Or

PHYS 19 - Introductory Physics II for Biological Sciences (4.00) ←

PHYS 211 - Principles of Physics II (4.00)

END OF AGREEMENT