

Articulation Agreement by Major

Effective during the 2018-2019 Academic Year

To: University of California, Merced
General Catalog, Semester

From: El Camino 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 101 - Principles of Biology I (5.00)

And

BIOL 102 - Principles of Biology II (5.00)

Or

BIOL 101H - Honors Principles of Biology I (5.00)

And

BIOL 102H - Honors Principles of Biology II (5.00)

BIO 2 - Introduction to Molecular Biology (4.00)

And

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



BIOL 103 - Fundamentals of Molecular Biology (3.00)

Or

BIOL 101 - Principles of Biology I (5.00)

And

BIOL 102 - Principles of Biology II (5.00)

CHEM 2 - General Chemistry I (4.00) ←	CHEM 1A - General Chemistry I (5.00)
CHEM 10 - General Chemistry II (4.00) ←	CHEM 1B - General Chemistry II (5.00)
<div style="border: 2px solid black; padding: 5px;"> <p>CHEM 8 - Principles of Organic Chemistry (3.00)</p> <p style="text-align: center;">And</p> <p>CHEM 8L - Principles of Organic Chemistry Lab (1.00)</p> </div>	CHEM 7A - Organic Chemistry I (5.00)
<div style="border: 2px solid black; padding: 5px;"> <p>CHEM 100 - Organic Synthesis and Mechanism (3.00)</p> <p style="text-align: center;">And</p> <p>CHEM 100L - Organic Chemistry Laboratory (1.00)</p> <ul style="list-style-type: none"> ▪ Lab is not required ▪ Lower division credit only </div>	CHEM 7B - Organic Chemistry II (5.00)

MATH 11 - Calculus I (4.00) ←	MATH 165 - Calculus for Business and Social Sciences (5.00)
Or	
MATH 21 - Calculus I for Physical Sciences & Engineering (4.00) ←	MATH 190 - Single Variable Calculus and Analytic Geometry I (5.00)
MATH 12 - Calculus II (4.00) ←	MATH 161 - Calculus for the Biological, Management and Social Sciences II (3.00)
Or	
MATH 22 - Calculus II for Physical Sciences & Engineering (4.00) ←	MATH 191 - Single Variable Calculus and Analytic Geometry II (5.00)

CHOOSE ONE OF THE FOLLOWING:

CSE 5 - Introduction to Computer Applications (4.00) ←	CIS 13 - Computer Information Systems (3.00)
CSE 20 - Introduction to Computing I (2.00) ←	COMP SCI 1 - Problem Solving and Program Design Using C++ (4.00)
Or	
	COMP SCI 3 - Computer Programming in Java (4.00)
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) ←	MATH 150 - Elementary Statistics with Probability (4.00)
MATH 32 - Probability and Statistics (4.00) ← <ul style="list-style-type: none"> ▪ Course recommended to be taken at university 	No Course Articulated
PSY 10 - Analysis of Psychological Data (4.00) ←	MATH 150 - Elementary Statistics with Probability (4.00) Or PSYCH 9A - Introduction to Elementary Statistical Methods for the Study of Behavior (4.00) Same-As: SOC 109

PHYS 8 - Introductory Physics I for Physical Sciences (4.00) ←	PHYS 1A - Mechanics of Solids (4.00) And PHYS 1B - Fluids, Heat and Sound (3.00)
Or	
PHYS 18 - Introductory Physics 1 for Biological Sciences (4.00) ←	PHYS 3A - General Physics with Calculus (5.00)
PHYS 9 - Introductory Physics II for Physical Sciences (4.00) ←	PHYS 1B - Fluids, Heat and Sound (3.00) And PHYS 1C - Electricity and Magnetism (4.00)
Or	
PHYS 19 - Introductory Physics II for Biological Sciences (4.00) ←	PHYS 3B - General Physics with Calculus (5.00)

END OF AGREEMENT