

Articulation Agreement by Major

Effective during the 2018-2019 Academic Year

To: University of California, Merced
General Catalog, Semester

From: City College of San Francisco
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).
At least one social science, Humanities or Arts course listed in the general education information
2. 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



BIO 100A - General Biology (5.00)

And

BIO 100B - General Biology (5.00)

BIO 2 - Introduction to Molecular Biology (4.00) <p style="text-align: center;">And</p> BIO 2L - Introduction to Molecular Biology Lab (1.00)	←	No Course Articulated
CHEM 2 - General Chemistry I (4.00)	←	CHEM 101A - General College Chemistry (6.00) <p style="text-align: center;">Or</p> CHEM 103A - General Chemistry for Engineering (5.00)
CHEM 10 - General Chemistry II (4.00)	←	CHEM 101B - General College Chemistry (5.00)
CHEM 8 - Principles of Organic Chemistry (3.00) <p style="text-align: center;">And</p> CHEM 8L - Principles of Organic Chemistry Lab (1.00)	←	CHEM 208A - Organic Chemistry (4.00) <p style="text-align: center;">Or</p> CHEM 212A - Organic Chemistry (6.00)
CHEM 100 - Organic Synthesis and Mechanism (3.00) <p style="text-align: center;">And</p> CHEM 100L - Organic Chemistry Laboratory (1.00) <ul style="list-style-type: none"> ■ Lab is not required ■ Lower division credit only 	←	CHEM 208B - Organic Chemistry (4.00) <p style="text-align: center;">Or</p> CHEM 212B - Organic Chemistry (6.00)

MATH 11 - Calculus I (4.00)	←	No Course Articulated
	Or	
MATH 21 - Calculus I for Physical Sciences & Engineering (4.00)	←	MATH 110A - 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 110B - Calculus II (5.00)

CHOOSE ONE OF THE FOLLOWING:

CSE 5 - Introduction to Computer Applications (4.00)	←	No Course Articulated
CSE 20 - Introduction to Computing I (2.00)	←	CS 110A - Intro to Programming (4.00) <p style="text-align: center;">Or</p>

	<p>CS 111A - Introduction to Programming: Java (4.00)</p> <p style="text-align: center;">Or</p> <p>CS 131A - Python Programming (4.00)</p> <p style="text-align: center;">Or</p> <p>ENGN 38 - Introduction to Programming Concepts and Methodologies for Engineers (3.00)</p>
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 80 - Probability and Statistics (4.00)
MATH 32 - Probability and Statistics (4.00) ←	No Course Articulated
<ul style="list-style-type: none"> ▪ Course recommended to be taken at university 	
PSY 10 - Analysis of Psychological Data (4.00) ←	<p>PSYC 5 - Statistics for Behavioral Sciences (5.00)</p> <p style="text-align: center;">Or</p> <p>LALS 5 - Introduction to Statistical Methods in LALS (5.00)</p> <p style="text-align: center;">Or</p> <p>MATH 80 - Probability and Statistics (4.00)</p>

PHYS 8 - Introductory Physics I for Physical Sciences (4.00) ←	<p>PHYC 2A - Introductory Physics (3.00)</p> <p style="text-align: center;">And</p> <p>PHYC 2AL - Introductory Physics Laboratory (1.00)</p> <p style="text-align: center;">And</p> <p>PHYC 2AC - Introductory Physics - Calculus Supplement (0.50)</p> <p style="text-align: center;">Or</p> <p>PHYC 4A - Classical Mechanics for Scientists and Engineers (3.00)</p> <p style="text-align: center;">And</p> <p>PHYC 4AL - Mechanics Laboratory for Scientists and Engineers (1.00)</p>
	Or

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



PHYC 2A - Introductory Physics (3.00)

And

PHYC 2AL - Introductory Physics
Laboratory (1.00)

And

PHYC 2AC - Introductory Physics -
Calculus Supplement (0.50)

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



PHYC 2B - Introductory Physics (3.00)

And

PHYC 2BL - Introductory Physics
Laboratory (1.00)

And

PHYC 2BC - Introductory Physics -
Calculus Supplement (0.50)

Or

PHYC 4B - Electromagnetism for
Scientists and Engineers (3.00)

And

PHYC 4BL - Electromagnetism
Laboratory for Scientists and Engineers
(1.00)

Or

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



PHYC 2B - Introductory Physics (3.00)

And

PHYC 2BL - Introductory Physics
Laboratory (1.00)

And

PHYC 2BC - Introductory Physics -
Calculus Supplement (0.50)

END OF AGREEMENT