

# Articulation Agreement by Major

Effective during the 2018-2019 Academic Year

To: University of California, Merced  
General Catalog, Semester

From: De Anza College  
General Catalog, Quarter

## EARTH SYSTEMS SCIENCE, B.S.

### REQUIREMENTS FOR ADMISSION

For admission to the Earth Systems Science, B.S. 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:

- CHEM 2 and CHEM 10
- MATH 11 or MATH 21
- PHYS 8 or PHYS 18

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 coursework 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](https://admissions.ucmerced.edu/transfer_requirements).

Information about applying for a Transfer Admission Guarantee is available at [admissions.ucmerced.edu/tag](https://admissions.ucmerced.edu/tag)

### ADDITIONAL LOWER DIVISION REQUIREMENTS

In addition to the courses listed below, choose two additional UC transferable courses in Natural Sciences or Engineering (not geology).

### LOWER DIVISION MAJOR PREPARATION COURSES

<b>CHEM 2</b> - General Chemistry I (4.00) ←	<b>CHEM 1A</b> - General Chemistry (5.00) <b>And</b> <b>CHEM 1B</b> - General Chemistry (5.00)
<b>CHEM 10</b> - General Chemistry II (4.00) ←	<b>CHEM 1B</b> - General Chemistry (5.00) <b>And</b> <b>CHEM 1C</b> - General Chemistry and Qualitative Analysis (5.00)

### COMPLETE ONE OF THE FOLLOWING

<b>ESS 1</b> - Introduction to Earth Systems Science (4.00)	←	No Course Articulated
<b>ESS 2</b> - Sustainability Science (4.00)	←	No Course Articulated
<b>BIO 1</b> - Contemporary Biology (4.00)	←	<b>BIOL 6A</b> - Form and Function in the Biological World (6.00) <b>And</b> <b>BIOL 6B</b> - Cell and Molecular Biology (6.00) <b>And</b> <b>BIOL 6C</b> - Evolution and Ecology (6.00)

### COMPLETE ONE OF THE FOLLOWING

<b>CSE 5</b> - Introduction to Computer Applications (4.00)	←	<b>CIS 3</b> - Business Information Systems (4.50)
<b>CSE 20</b> - Introduction to Computing I (2.00)	←	<b>CIS 22A</b> - Beginning Programming Methodologies in C++ (4.50) <b>Or</b> <b>CIS 36A</b> - Introduction to Computer Programming Using Java (4.50) <b>Or</b> <b>CIS 26A</b> - C as a Second Programming Language (4.50) <b>Or</b> <b>CIS 26B</b> - Advanced C Programming (4.50)
<b>MATH 15</b> - Introduction to Scientific Data Analysis (2.00)	←	No Course Articulated

### COMPLETE CALCULUS I AND II

<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 1A</b> - Calculus (5.00) <b>And</b> <b>MATH 1B</b> - Calculus (5.00)
<b>And</b>		
<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 1C</b> - Calculus (5.00)

### COMPLETE ONE OF THE FOLLOWING

<b>ECON 10</b> - Statistical Inference (4.00)	←	<b>MATH 10</b> - Elementary Statistics and Probability (5.00)
<b>PSY 10</b> - Analysis of Psychological Data (4.00)	←	<b>PSYC 15</b> - Basic Statistics and Research Methods in Social and Behavioral Sciences (4.00) Same-As: SOC 15
<b>MATH 18</b> - Statistics for Scientific Data Analysis (4.00)	←	No Course Articulated
<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

### COMPLETE ONE OF THE FOLLOWING

<b>ESS 10</b> - Earth Resources (4.00)	←	No Course Articulated
<b>ESS 20</b> - Fundamentals of Geology (4.00)	←	<b>GEOL 10</b> - Introductory Geology (5.00)
<b>BIO 47</b> - Astrobiology (4.00) Same-As: ESS 47	←	No Course Articulated
<b>ESS 50</b> - Ecosystems of California (4.00)	←	No Course Articulated
<b>BIO 65</b> - Natural History of Dinosaurs (4.00) Same-As: ESS 65	←	No Course Articulated

### COMPLETE INTRODUCTORY PHYSICS I AND II

<b>PHYS 8</b> - Introductory Physics I for Physical Sciences (4.00)	←	<b>PHYS 4A</b> - Physics for Scientists and Engineers: Mechanics (6.00)
<b>Or</b>		
<b>PHYS 18</b> - Introductory Physics 1 for Biological Sciences (4.00)	←	<b>PHYS 2A</b> - General Introductory Physics (5.00)
<b>And</b>		
		<b>PHYS 2C</b> - General Introductory Physics (5.00)
<b>And</b>		
<b>PHYS 9</b> - Introductory Physics II for Physical Sciences (4.00)	←	<b>PHYS 4B</b> - Physics for Scientists and Engineers: Electricity and Magnetism (6.00)
<b>And</b>		
		<b>PHYS 4C</b> - Physics for Scientists and Engineers: Fluids, Waves, Optics and Thermodynamics (6.00)

**Or****PHYS 19** - Introductory Physics II for  
Biological Sciences (4.00)**PHYS 2B** - General Introductory Physics  
(5.00)**And****PHYS 2C** - General Introductory Physics  
(5.00)**END OF AGREEMENT**