Articulation Agreement by Major
Effective during the 2018-2019 Academic Year

To: University of California, Merced
   General Catalog, Semester

From: Diablo Valley College
   General Catalog, Semester

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
*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.

### 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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 2</td>
<td>General Chemistry I (4.00)</td>
<td></td>
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<tr>
<td>CHEM 10</td>
<td>General Chemistry II (4.00)</td>
<td></td>
</tr>
<tr>
<td>CHEM 20</td>
<td>General College Chemistry I (5.00)</td>
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<tr>
<td>CHEM 120</td>
<td>General College Chemistry I</td>
<td></td>
</tr>
<tr>
<td>CHEM 121</td>
<td>General College Chemistry II</td>
<td></td>
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</tbody>
</table>
### COMPLETE ONE OF THE FOLLOWING

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESS 1</td>
<td>Introduction to Earth Systems Science</td>
<td>4.00</td>
<td>No Course Articulated</td>
</tr>
<tr>
<td>ESS 2</td>
<td>Sustainability Science</td>
<td>4.00</td>
<td>No Course Articulated</td>
</tr>
<tr>
<td>BIO 1</td>
<td>Contemporary Biology</td>
<td>4.00</td>
<td>BIOSC 130 - Principles of Cellular and Molecular Biology 5.00</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>And BIOSC 131 - Principles of Organismal Biology, Evolution and Ecology 5.00</td>
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<table>
<thead>
<tr>
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<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSE 5</td>
<td>Introduction to Computer Applications</td>
<td>4.00</td>
<td>COMSC 101 - Computer Literacy 4.00</td>
</tr>
<tr>
<td>CSE 20</td>
<td>Introduction to Computing I</td>
<td>2.00</td>
<td>COMSC 110 - Introduction to Programming 4.00</td>
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<td></td>
<td>Or COMSC 165 - Advanced Programming with C and C++ 4.00</td>
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<td></td>
<td></td>
<td>Or ENGIN 135 - Programming for Scientists and Engineers 4.00</td>
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<tr>
<td>MATH 15</td>
<td>Introduction to Scientific Data Analysis</td>
<td>2.00</td>
<td>No Course Articulated</td>
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### COMPLETE CALCULUS I AND II

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
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</thead>
<tbody>
<tr>
<td>MATH 11</td>
<td>Calculus I</td>
<td>4.00</td>
<td>MATH 182 - Calculus for Management, Life Science and Social Science I 4.00</td>
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<td></td>
<td></td>
<td></td>
<td>Or MATH 192 - Analytic Geometry and Calculus I 5.00</td>
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<tr>
<td>MATH 21</td>
<td>Calculus I for Physical Sciences &amp; Engineering</td>
<td>4.00</td>
<td>No Course Articulated</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Or MATH 193 - Analytic Geometry and Calculus II 5.00</td>
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<tr>
<td>MATH 12</td>
<td>Calculus II</td>
<td>4.00</td>
<td></td>
</tr>
<tr>
<td>MATH 22</td>
<td>Calculus II for Physical Sciences &amp; Engineering</td>
<td>4.00</td>
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### COMPLETE ONE OF THE FOLLOWING

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Articulation</th>
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<tbody>
<tr>
<td><strong>ECON 10</strong> - Statistical Inference (4.00)</td>
<td></td>
<td>BUS 240 - Business Statistics (3.00)</td>
</tr>
<tr>
<td><strong>PSY 10</strong> - Analysis of Psychological Data (4.00)</td>
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<td>MATH 142 - Elementary Statistics with Probability (4.00)</td>
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<tr>
<td>MATH 144 - Statway II (4.00)</td>
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<td>And</td>
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<tr>
<td><strong>MATH 18</strong> - Statistics for Scientific Data Analysis (4.00)</td>
<td></td>
<td>MATH 142 - Elementary Statistics with Probability (4.00)</td>
</tr>
<tr>
<td><strong>MATH 32</strong> - Probability and Statistics (4.00)</td>
<td></td>
<td>No Course Articulated</td>
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<tr>
<td></td>
<td></td>
<td>Course recommended to be taken at university</td>
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<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Articulation</th>
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</thead>
<tbody>
<tr>
<td><strong>ESS 10</strong> - Earth Resources (4.00)</td>
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<td>No Course Articulated</td>
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<tr>
<td><strong>ESS 20</strong> - Fundamentals of Geology (4.00)</td>
<td></td>
<td>No Course Articulated</td>
</tr>
<tr>
<td><strong>BIO 47</strong> - Astrobiology (4.00)</td>
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<td>No Course Articulated</td>
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<td></td>
<td>Same-As: ESS 47</td>
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<tr>
<td><strong>ESS 50</strong> - Ecosystems of California (4.00)</td>
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<td>No Course Articulated</td>
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<tr>
<td><strong>BIO 65</strong> - Natural History of Dinosaurs (4.00)</td>
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<td>No Course Articulated</td>
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<td></td>
<td>Same-As: ESS 65</td>
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<tr>
<td>PHYS 8 - Introductory Physics I for Physical Sciences (4.00)</td>
<td>PHYS 130 - Physics for Engineers and Scientists A: Mechanics and Wave Motion (4.00)</td>
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<td>Or</td>
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<tr>
<td>PHYS 18 - Introductory Physics I for Biological Sciences (4.00)</td>
<td>PHYS 120 - General College Physics I (4.00)</td>
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<td></td>
<td>PHYS 124 - Calculus Supplement for Physics 120 (0.50)</td>
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<td>And</td>
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<tr>
<td>PHYS 9 - Introductory Physics II for Physical Sciences (4.00)</td>
<td>PHYS 230 - Physics for Engineers and Scientists B: Heat and Electro-Magnetism (4.00)</td>
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<tr>
<td>Or</td>
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<tr>
<td>PHYS 19 - Introductory Physics II for Biological Sciences (4.00)</td>
<td>PHYS 121 - General College Physics II (4.00)</td>
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<tr>
<td></td>
<td>PHYS 125 - Calculus Supplement for Physics 121 (0.50)</td>
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END OF AGREEMENT