

# Articulation Agreement by Major

Effective during the 2018-2019 Academic Year

To: University of California, Merced  
General Catalog, Semester

From: Long Beach City College  
General Catalog, Semester

## ENVIRONMENTAL ENGINEERING, B.S.

### REQUIREMENTS FOR ADMISSION

For admission to the Environmental Engineering, B.S. major, students must earn an overall GPA of 2.4 or better, demonstrate readiness for a rigorous course of study in Engineering, and must complete classes articulated with the following UC Merced courses prior to admission:

- CHEM 2, MATH 21, MATH 22, MATH 23, MATH 24, PHYS 8, and PHYS 9

\*\*The completion of the equivalent of CHEM 10 prior to admission is strongly recommended for this major.

Transfer students seeking fall admission should have the following completed by the end of the spring term preceding fall enrollment at UC Merced:

1. All major preparation requirements as stated above.
2. All minimum admission requirements including appropriate courses in math and the equivalent of WRI 1 and WRI 10 (see articulation by department on ASSIST.org).
3. At least one course from the 'Arts and Humanities' or 'Social and Behavioral Sciences' section of the General Education requirements for School of Engineering, shown here:

Three courses with at least one from the arts and one from the humanities from the Arts and Humanities IGETC areas:

- **Area 3A** (Arts)
- **Area 3B** (Humanities)

### AND

Three courses from at least two disciplines, or an interdisciplinary sequence from the Social and Behavioral Sciences IGETC area:

- **Area 4**

NOTE: Completion of IGETC (certified by your community college) satisfies all of the above requirements.

## 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 will not be competitive in the admission process if their academic records show unsuccessful attempts of UC-transferable courses as demonstrated by one or more of the following:

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](mailto:admissions@ucmerced.edu)

The School of Engineering strongly discourages completion of IGETC as students are encouraged to focus primarily on lower division major preparation.

**\*\*Please Note:** Courses used to satisfy lower-division major preparation may simultaneously satisfy lower-division general education for the School of Engineering.

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).

## LOWER DIVISION MAJOR PREPARATION COURSES

<b>CHEM 2</b> - General Chemistry I (4.00)	←	<b>CHEM 1A</b> - General Chemistry (5.50)
<b>CHEM 10</b> - General Chemistry II (4.00) ▪ Recommended to be completed prior to transfer	←	<b>CHEM 1B</b> - General Chemistry (5.50)
<b>ENGR 45</b> - Introduction to Materials (4.00)	←	No Course Articulated
<b>ENGR 57</b> - Statics and Dynamics (4.00)	←	No Course Articulated
<b>ENGR 65</b> - Circuit Theory (4.00)	←	No Course Articulated
<b>ENVE 20</b> - Introduction to Environmental Science and Technology (4.00)	←	No Course Articulated
<b>MATH 21</b> - Calculus I for Physical Sciences & Engineering (4.00)	←	<b>MATH 60</b> - First Calculus Course (5.00)
<b>MATH 22</b> - Calculus II for Physical Sciences & Engineering (4.00)	←	<b>MATH 70</b> - Second Calculus Course (5.00)
<b>MATH 23</b> - Vector Calculus (4.00)	←	<b>MATH 80</b> - Third Calculus Course (5.00)
<b>MATH 24</b> - Introduction to Linear Algebra and Differential Equations (4.00)	←	<b>MATH 84</b> - Introduction to Differential Equations and Linear Algebra (5.00)
<b>MATH 32</b> - Probability and Statistics (4.00) ▪ Course recommended to be taken at university	←	No Course Articulated
<b>PHYS 8</b> - Introductory Physics I for Physical Sciences (4.00)	←	<b>PHYS 3A</b> - Physics for Sci & Eng. - Mechanics (5.50)
<b>PHYS 9</b> - Introductory Physics II for Physical Sciences (4.00)	←	<b>PHYS 3B</b> - Physics for Science and Engineering - Electricity and Magnetism (4.50)

## COMPLETE ONE OF THE FOLLOWING

<b>ME 21</b> - Engineering Computing (4.00)	←	No Course Articulated
<b>Or</b>		
<b>BIOE 21</b> - Computing for Bioengineers (3.00)	←	No Course Articulated
<b>Or</b>		
<b>CSE 20</b> - Introduction to Computing I (2.00)	←	<b>CS 11</b> - Introduction to Computer Science-C++ (4.00)
<b>Or</b>		
<b>CS 21</b> - Introduction to Computer Science-Java (4.00)		
<b>Or</b>		
<b>ENGR 54</b> - Computer Methods (3.50)		
<b>And</b>		
<b>CSE 21</b> - Introduction to Computing II (2.00)	←	<b>CS 21</b> - Introduction to Computer Science-Java (4.00)

**Or****ENGR 54** - Computer Methods (3.50)**COMPLETE ONE OF THE FOLLOWING**

<b>BIO 1</b> - Contemporary Biology (4.00) ←	<b>BIO 1A</b> - Biology for Science Majors (5.00) <b>And</b> <b>BIO 1B</b> - Biology for Science Majors (5.00) <b>Or</b> <b>BIO 41</b> - Contemporary Biology (3.00) <b>Or</b> <b>BIO 41H</b> - Honors Contemporary Biology (3.00) <b>Or</b> <b>BIO 41L</b> - Contemporary Biology Laboratory (1.00)
<b>BIO 5</b> - Concepts & Issues in Biology Today (4.00) ←	No Course Articulated
<b>ESS 1</b> - Introduction to Earth Systems Science (4.00) ←	No Course Articulated
<b>ESS 5</b> - Introduction to Biological Earth Systems (4.00) ←	No Course Articulated

**END OF AGREEMENT**