# **Articulation Agreement by Major**

Effective during the 2018-2019 Academic Year

To: University of California, Merced General Catalog, Semester From: Butte College General Catalog, Semester

### **BIOENGINEERING, B.S.**

## REQUIREMENTS FOR ADMISSION

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

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

\*\*Completion of the equivalent of BIO 1 and BIO 1L 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:

O 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

\*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.

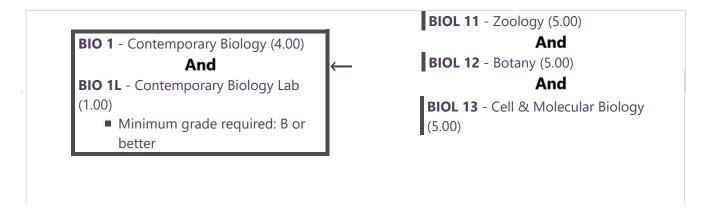
If you have any questions abour UC Merced admissions policy, please email: admissions@ucmerced.edu

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 gerneral education for the School of Engineering.

For the most up-to-date information about transferring to UC Merced, please visit <u>admissions.ucmerced.edu/transfer\_requirements.</u>
Information about applying for a Transfer Admission Guarantee is available at <u>admissions.ucmerced.edu/tag.</u>

#### **LOWER DIVISION MAJOR PREPARATION COURSES**



BIO 2 - Introduction to Molecular Biology (4.00)  And BIO 2L - Introduction to Molecular Biology Lab (1.00)	<b>←</b>	No Course Articulated
<b>BIOE 21</b> - Computing for Bioengineers (3.00)	<b>←</b>	No Course Articulated
<b>BIOE 60</b> - Signals and Systems for Bioengineers (3.00)	<b>←</b>	No Course Articulated
BIOE 65 - Biocicuits Theory (3.00)	$\leftarrow$	No Course Articulated
CHEM 2 - General Chemistry I (4.00)	$\leftarrow$	CHEM 1 - General Chemistry I (5.00)
CHEM 10 - General Chemistry II (4.00)	$\leftarrow$	CHEM 2 - General Chemistry II (5.00)
CHEM 8 - Principles of Organic Chemistry (3.00)  And  CHEM 8L - Principles of Organic Chemistry Lab (1.00)	<b>←</b>	CHEM 21 - Organic Chemistry I (5.00)
<b>ENGR 45</b> - Introduction to Materials (4.00)	<b>←</b>	No Course Articulated
MATH 21 - Calculus I for Physical Sciences & Engineering (4.00)	<b>←</b>	MATH 30 - Analytic Geometry and Calculus I (5.00)
MATH 22 - Calculus II for Physical Sciences & Engineering (4.00)	←	MATH 31 - Analytic Geometry and Calculus II (4.00)
MATH 23 - Vector Calculus (4.00)	<b>←</b>	MATH 32 - Analytic Geometry and Calculus III (4.00)
MATH 24 - Introduction to Linear Algebra and Differential Equations (4.00)	<del></del>	MATH 40 - Differential Equations (4.00)  And  MATH 42 - Linear Algebra (3.00)
MATH 32 - Probability and Statistics (4.00) ■ Course recommended to be taken at university	<b>—</b>	No Course Articulated
PHYS 8 - Introductory Physics I for Physical Sciences (4.00)	<b>←</b>	<b>PHYS 41</b> - Physics for Scientists and Engineers I (4.00)
		PHYS 42 - Physics for Scientists and

# **END OF AGREEMENT**