# **Articulation Agreement by Major**

**Effective during the 2018-2019 Academic Year** 

To: University of California, Merced General Catalog, Semester From: West Valley 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.

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#### 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 withdrawls 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 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 admissions.ucmerced.edu/transfer\_requirements.

Information about applying for a Transfer Admission Guarantee is available at <u>admissions.ucmerced.edu/tag.</u>

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

	•	<b>BIOL 41</b> - Principles of Animal Biology (5.00)  And
BIO 1 - Contemporary Biology (4.00)  And  BIO 1L - Contemporary Biology Lab	<b> </b> ←	<b>BIOL 42</b> - Principles of Plant Biology (5.00)
(1.00)  Minimum grade required: B or better		BIOL 43 - Principles of Cell Biology (5.00)
BIO 2 - Introduction to Molecular Biology (4.00)  And BIO 2L - Introduction to Molecular Biology Lab (1.00)	<b>1</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)	$\leftarrow$	No Course Articulated
BIOE 65 - Biocicuits Theory (3.00)	$\leftarrow$	No Course Articulated
CHEM 2 - General Chemistry I (4.00)	$\leftarrow$	CHEM 1A - General Chemistry (5.00)
CHEM 10 - General Chemistry II (4.00)	$\leftarrow$	CHEM 1B - General Chemistry (5.00)
CHEM 8 - Principles of Organic Chemistry (3.00)  And CHEM 8L - Principles of Organic Chemistry Lab (1.00)		CHEM 12A - Organic Chemistry (5.00)
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<b>ENGR 45</b> - Introduction to Materials (4.00)	$\leftarrow$	No Course Articulated
(4.00)  MATH 21 - Calculus I for Physical Sciences & Engineering (4.00)	←	<b>MATH 3A</b> - Calculus and Analytic Geometry (5.00)
(4.00)  MATH 21 - Calculus I for Physical Sciences & Engineering (4.00)  MATH 22 - Calculus II for Physical Sciences & Engineering (4.00)	← ← ← ←	MATH 3A - Calculus and Analytic Geometry (5.00) MATH 3B - Calculus and Analytic Geometry (5.00)
(4.00)  MATH 21 - Calculus I for Physical Sciences & Engineering (4.00)  MATH 22 - Calculus II for Physical Sciences & Engineering (4.00)  MATH 23 - Vector Calculus (4.00)	<ul><li>←</li><li>←</li><li>←</li><li>←</li></ul>	MATH 3A - Calculus and Analytic Geometry (5.00) MATH 3B - Calculus and Analytic Geometry (5.00) MATH 4A - Intermediate Calculus (5.00
(4.00)  MATH 21 - Calculus I for Physical Sciences & Engineering (4.00)  MATH 22 - Calculus II for Physical Sciences & Engineering (4.00)	← ← ← ← ← ← ←	MATH 3A - Calculus and Analytic Geometry (5.00) MATH 3B - Calculus and Analytic Geometry (5.00)
(4.00)  MATH 21 - Calculus I for Physical Sciences & Engineering (4.00)  MATH 22 - Calculus II for Physical Sciences & Engineering (4.00)  MATH 23 - Vector Calculus (4.00)  MATH 24 - Introduction to Linear Algebra and Differential Equations (4.00)  MATH 32 - Probability and Statistics (4.00)  Course recommended to be taken	<b>←</b>	MATH 3A - Calculus and Analytic Geometry (5.00)  MATH 3B - Calculus and Analytic Geometry (5.00)  MATH 4A - Intermediate Calculus (5.00)  MATH 4B - Differential Equations (4.0)  And
(4.00)  MATH 21 - Calculus I for Physical Sciences & Engineering (4.00)  MATH 22 - Calculus II for Physical Sciences & Engineering (4.00)  MATH 23 - Vector Calculus (4.00)  MATH 24 - Introduction to Linear Algebra and Differential Equations (4.00)  MATH 32 - Probability and Statistics (4.00)	<b>←</b>	MATH 3A - Calculus and Analytic Geometry (5.00)  MATH 3B - Calculus and Analytic Geometry (5.00)  MATH 4A - Intermediate Calculus (5.00)  MATH 4B - Differential Equations (4.00)  And  MATH 4C - Linear Algebra (4.00)

## **END OF AGREEMENT**