Articulation Agreement by Major

Effective during the 2018-2019 Academic Year

To: University of California, Merced
General Catalog, Semester

From: El Camino 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 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

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:

- **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 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 admissions.ucmerced.edu/tag.

LOWER DIVISION MAJOR PREPARATION COURSES

BIOL 101 - Principles of Biology I (5.00)

And

BIOL 102 - Principles of Biology II (5.00)

Or

BIO 1 - Contemporary Biology (4.00) **And** **BIO 1L** - Contemporary Biology Lab (1.00) ▪ Minimum grade required: B or better	←	**BIOL 101H** - Honors Principles of Biology I (5.00) **And** **BIOL 102H** - Honors Principles of Biology II (5.00)
BIO 2 - Introduction to Molecular Biology (4.00) **And** **BIO 2L** - Introduction to Molecular Biology Lab (1.00)	←	**BIOL 103** - Fundamentals of Molecular Biology (3.00) **Or** **BIOL 101** - Principles of Biology I (5.00) **And** **BIOL 102** - Principles of Biology II (5.00)
BIOE 21 - Computing for Bioengineers (3.00)	←	No Course Articulated
BIOE 60 - Signals and Systems for Bioengineers (3.00)	←	No Course Articulated
BIOE 65 - Biocicuits Theory (3.00)	←	No Course Articulated
CHEM 2 - General Chemistry I (4.00)	←	**CHEM 1A** - General Chemistry I (5.00)
CHEM 10 - General Chemistry II (4.00)	←	**CHEM 1B** - General Chemistry II (5.00)
CHEM 8 - Principles of Organic Chemistry (3.00) **And** **CHEM 8L** - Principles of Organic Chemistry Lab (1.00)	←	**CHEM 7A** - Organic Chemistry I (5.00)
ENGR 45 - Introduction to Materials (4.00)	←	No Course Articulated
MATH 21 - Calculus I for Physical Sciences & Engineering (4.00)	←	**MATH 190** - Single Variable Calculus and Analytic Geometry I (5.00)
MATH 22 - Calculus II for Physical Sciences & Engineering (4.00)	←	**MATH 191** - Single Variable Calculus and Analytic Geometry II (5.00)
MATH 23 - Vector Calculus (4.00)	←	**MATH 220** - Multi-Variable Calculus (5.00)
MATH 24 - Introduction to Linear Algebra and Differential Equations (4.00)	←	**MATH 270** - Differential Equations with Linear Algebra (5.00)
MATH 32 - Probability and Statistics (4.00) ▪ Course recommended to be taken at university	←	No Course Articulated
PHYS 8 - Introductory Physics I for Physical Sciences (4.00)	←	**PHYS 1A** - Mechanics of Solids (4.00) **And** **PHYS 1B** - Fluids, Heat and Sound (3.00)
PHYS 9 - Introductory Physics II for Physical Sciences (4.00)	←	**PHYS 1B** - Fluids, Heat and Sound (3.00)

And

PHYS 1C - Electricity and Magnetism (4.00)

END OF AGREEMENT