Articulation Agreement by Major

Effective during the 2018-2019 Academic Year

To: University of California, Merced General Catalog, Semester From: Santa Ana 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=764#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

BIO 1 - Contemporary Biology (4.00)

And

BIO 1L - Contemporary Biology Lab (1.00)

Minimum grade required: B or better

BIOL 211 - Cellular and Molecular Biology (5.00)

And

BIOL 212 - Animal Diversity and Ecology (5.00)

And

BIOL 214 - Plant Diversity and Evolution (5.00)

BIO 2 - Introduction to Molecular Biology (4.00) And BIO 2L - Introduction to Molecular Biology Lab (1.00) BIOE 21 - Computing for Bioengineers (3.00) BIOE 60 - Signals and Systems for Bioengineers (3.00) BIOE 65 - Biocicuits Theory (3.00) CHEM 2 - General Chemistry I (4.00) CHEM 219 - General Chemistry (5.00) CHEM 219 - General Chemistry (5.00) CHEM 219 - General Chemistry (5.00) CHEM 229 - General Chemistry and Qualitative Analysis (5.00) CHEM 249 - Organic Chemistry (3.00) And CHEM 8L - Principles of Organic Chemistry (3.00) And CHEM 8L - Principles of Organic Chemistry (3.00) And CHEM 8L - Principles of Organic Chemistry Lab (1.00) ENGR 45 - Introduction to Materials (4.00) MATH 21 - Calculus I for Physical Sciences & Engineering (4.00) MATH 180 - Single Variable Calculus I (4.00) MATH 180 - Single Variable Calculus I (4.00) MATH 185 - Single Variable Calculus II (4.00) MATH 185 - Single Variable Calculus II (4.00) MATH 28 - Introduction to Linear Algebra and Differential Equations (4.00) MATH 28 - Introduction to Linear Algebra and Differential Equations (5.00) No Course Articulated No Course Articulated MATH 180 - Single Variable Calculus II (4.00) MATH 28 - Introduction to Linear Algebra and Differential Equations (5.00) No Course Articulated			
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Physical Sciences (4.00)	•		DING 207 F
PHYS 9 - Introductory Physics II for PHYS 227 - Engineering Physics II (4.00) Physical Sciences (4.00)		\leftarrow	PHYS 221 - Engineering Physics II (4.00)

END OF AGREEMENT