# **Articulation Agreement by Major**

Effective during the 2018-2019 Academic Year

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

## **COMPUTER SCIENCE AND ENGINEERING, B.S.**

#### REQUIREMENTS FOR ADMISSION

For admission to the Computer Science & 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 <u>must</u> complete classes articulated with the following UC Merced courses prior to admission:

 CSE 20 & 21, (CSE major must complete CSE 20 & 21 with grades of B or better), MATH 21, MATH 22, MATH 23, MATH 24, PHYS 8, and PHYS 9

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

admissions.ucmerced.edu/tag.

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# **LOWER DIVISION MAJOR PREPARATION COURSES**

CSE 21 - Introduction to Computing II (2.00)  Minimum grade required: B or better	<b>←</b>	COMP 257 - JAVA with Object-Oriented Programming (4.00)
CSE 20 - Introduction to Computing I (2.00) ■ Minimum grade required: B or better	←	COMP 251 - Fundamentals of Computer Science C++ (4.00)  Or  ENGIN 160 - Programming Concepts and Methodologies for Engineers (4.00)
CSE 15 - Discrete Mathematics (4.00)	<del></del>	No Course Articulated
CSE 30 - Data Structures (4.00)	<b>←</b>	COMP 252 - Data Structures and Algorithms (4.00)
<b>CSE 31</b> - Computer Organization and Assembly Language (4.00)	<b>←</b>	COMP 280 - Computer Structure and Organization (4.00)
ENGR 65 - Circuit Theory (4.00)	<b>←</b>	<b>ENGIN 230</b> - Introduction to Circuit Analysis (4.00)
MATH 21 - Calculus I for Physical Sciences & Engineering (4.00)	<b>←</b>	MATH 190 - Analytic Geometry and Calculus I (5.00)
MATH 22 - Calculus II for Physical Sciences & Engineering (4.00)	<b>←</b>	MATH 191 - Analytic Geometry and Calculus II (4.00)
MATH 23 - Vector Calculus (4.00)	<b>←</b>	MATH 290 - Analytic Geometry and Calculus III (5.00)
MATH 24 - Introduction to Linear Algebra and Differential Equations (4.00)	<b>←</b>	MATH 200 - Introduction to Linear Algebra (4.00)  And  MATH 292 - Introduction to Differential
		Equations (4.00)
MATH 32 - Probability and Statistics (4.00)	<b>←</b>	No Course Articulated
<b>PHYS 8</b> - Introductory Physics I for Physical Sciences (4.00)	<b>←</b>	PHYS 130 - General Physics I (4.00)
<b>PHYS 9</b> - Introductory Physics II for Physical Sciences (4.00)	<b>←</b>	PHYS 230 - General Physics II (4.00)

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# **CHOOSE ONE OF THE FOLLOWING: BIOSC 140** - Principles of Biology (4.00) **BIO 1** - Contemporary Biology (4.00) And **BIOSC 141** - Principles of Biology (4.00) **BIOSC 145** - Organismal Biology (4.00) And **BIOSC 147** - Cell and Molecular Biology No Course Articulated **BIO 5** - Concepts & Issues in Biology Today (4.00) **ESS 1** - Introduction to Earth Systems No Course Articulated Science (4.00) **ESS 5** - Introduction to Biological Earth No Course Articulated Systems (4.00)

#### **END OF AGREEMENT**

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