Articulation Agreement by Major

Effective during the 2018-2019 Academic Year

To: University of California, Merced
General Catalog, Semester

From: East Los Angeles 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 must 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:

- **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

CSE 21 - Introduction to Computing II (2.00) ▪ Minimum grade required: B or better	←	**CO SCI 243** - Programming in C++ (3.00) **Or** **CO SCI 290** - Programming in JAVA (3.00) **Or** **MATH 173** - Object-Oriented Programming and Design (4.00)

CSE 20 - Introduction to Computing I (2.00) ▪ Minimum grade required: B or better	←	**CO SCI 243** - Programming in C++ (3.00) **Or** **CO SCI 290** - Programming in JAVA (3.00) **Or** **MATH 173** - Object-Oriented Programming and Design (4.00)
CSE 15 - Discrete Mathematics (4.00)	←	No Course Articulated
CSE 30 - Data Structures (4.00)	←	**MATH 273** - Introduction to Data Structures and Algorithms (4.00)
CSE 31 - Computer Organization and Assembly Language (4.00)	←	No Course Articulated
ENGR 65 - Circuit Theory (4.00)	←	**ENG GEN 220** - Electrical Circuits I (4.00)
MATH 21 - Calculus I for Physical Sciences & Engineering (4.00)	←	**MATH 261** - Calculus I (5.00)
MATH 22 - Calculus II for Physical Sciences & Engineering (4.00)	←	**MATH 262** - Calculus II (5.00)
MATH 23 - Vector Calculus (4.00)	←	**MATH 263** - Calculus III (5.00)
MATH 24 - Introduction to Linear Algebra and Differential Equations (4.00)	←	**MATH 270** - Linear Algebra (3.00) **And** **MATH 275** - Ordinary Differential Equations (3.00)
MATH 32 - Probability and Statistics (4.00)	←	No Course Articulated
PHYS 8 - Introductory Physics I for Physical Sciences (4.00)	←	**PHYSICS 1** - Mechanics of Solids (4.00) **And** **PHYSICS 2** - Mechanics of Fluids, Heat and, Sound (4.00)
PHYS 9 - Introductory Physics II for Physical Sciences (4.00)	←	**PHYSICS 2** - Mechanics of Fluids, Heat and, Sound (4.00) **And** **PHYSICS 3** - Electricity and Magnetism (4.00)

CHOOSE ONE OF THE FOLLOWING:

BIO 1 - Contemporary Biology (4.00)	←	**BIOLOGY 6** - General Biology I (5.00) **And** **BIOLOGY 7** - General Biology II (5.00)
BIO 5 - Concepts & Issues in Biology Today (4.00)	←	No Course Articulated
ESS 1 - Introduction to Earth Systems Science (4.00)	←	No Course Articulated
ESS 5 - Introduction to Biological Earth Systems (4.00)	←	No Course Articulated

END OF AGREEMENT