Articulation Agreement by Major

Effective during the 2018-2019 Academic Year

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

1 of 4 8/27/2018, 10:15 AM

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>

2 of 4 8/27/2018, 10:15 AM

LOWER DIVISION MAJOR PREPARATION COURSES

	CSE 21 - Introduction to Computing II (2.00) Minimum grade required: B or	←	CS V11 - Programming Fundamentals (3.00) Or
	better		CS V30 - Beginning C++ (3.00) Or
			CS V40 - Beginning Java (3.00)
	CSE 20 - Introduction to Computing I (2.00)	\leftarrow	CS V11 - Programming Fundamentals (3.00)
	Minimum grade required: B or		Or
	better		CS V30 - Beginning C++ (3.00)
			Or
			CS V40 - Beginning Java (3.00)
	CSE 15 - Discrete Mathematics (4.00)	\leftarrow	No Course Articulated
	CSE 30 - Data Structures (4.00)	\leftarrow	CS V15 - Data Structures and Algorithms (3.00)
	CSE 31 - Computer Organization and Assembly Language (4.00)	\leftarrow	CS V19 - Computer Architecture and Organization (3.00)
	ENGR 65 - Circuit Theory (4.00)	\leftarrow	No Course Articulated
	MATH 21 - Calculus I for Physical	_	MATH V21A - Calculus with Analytic
	Sciences & Engineering (4.00)		Geometry I (5.00)
	MATH 22 - Calculus II for Physical	\leftarrow	MATH V21B - Calculus with Analytic
	Sciences & Engineering (4.00)		Geometry II (5.00)
	MATH 23 - Vector Calculus (4.00)	\leftarrow	MATH V21C - Multivariable Calculus (5.00)
	MATH 24 - Introduction to Linear Algebra and Differential Equations (4.00)	\leftarrow	MATH V22 - Introduction to Linear Algebra (3.00)
			And MATH V23 - Introduction to Differential Equations (3.00)
	MATH 32 - Probability and Statistics (4.00)	\leftarrow	No Course Articulated
	PHYS 8 - Introductory Physics I for Physical Sciences (4.00)	←	PHYS V4 - Mechanics for Scientists and Engineers (4.00)
			And
			PHYS V4L - Mechanics Laboratory for Scientists and Engineers (1.00)
	PHYS 9 - Introductory Physics II for	\leftarrow	PHYS V5 - Electricity and Magnetism
	Physical Sciences (4.00)	`	for Scientists and Engineers (4.00) And
			PHYS V5L - Electricity and Magnetism
			Laboratory for Scientists and Engineers (1.00)

3 of 4 8/27/2018, 10:15 AM

CHOOSE ONE OF THE FOLLOWING:

BIO 1 - Contemporary Biology (4.00)	\leftarrow	ANPH V1 - Introduction to Human Anatomy and Physiology (5.00)
		And
		BIOL V3 - Introduction to Organisma Biology and Ecology (5.00) Or
		BIOL V1 - Principles of Biology (3.00) Or
		PHSO V1 - Introduction to Human Physiology (4.00)
		Or BIOL V3 - Introduction to Organisma Biology and Ecology (5.00) And
		BIOL V4 - Introduction to Cell and Molecular Biology (5.00)
BIO 5 - Concepts & Issues in Biology Today (4.00)	\leftarrow	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

4 of 4