Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

To: University of California, Riverside 2022-2023 General Catalog, Quarter	From: Los Angeles Southwest College 2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL REQUIREMENTS

All majors in the Bourns College of Engineering are selective, based on academic preparation and GPA in all transferable coursework, with a minimum GPA of 2.80. This is a baseline GPA for consideration and not a guarantee of admission.

Prior to transfer, a minimum GPA of at least 2.50 in the calculus sequence and at least one additional sequence.

Note: Proficiency in C++ is a required prerequisite to UCR's CS141 "Intermediate Data Structures and Algorithms", as well as most other upper division CS courses. Transfer students who complete the equivalent of UCR's CS 10 and 12 but still lack proficiency in C++ may be required to complete a C++ course at UCR or elsewhere, prior to enrolling in upper division courses at UCR.

AP Exam - Satisfy Course Requirement Section
Computer Science: A Exam
Minimum score of 4 satisfies CS 10A
Mathematics: AB Exam or AB Subscore from BC Exam
Minimum score of 3 satisfies MATH 9A **or** MATH 7A
Mathematics: BC Exam
Minimum score of 3 satisfies MATH 9A and MATH 9B **or** MATH 7A and MATH 7B
Minimum score of 4 satisfies MATH 9A, MATH 9B, MATH 9C **or** MATH 7A, MATH 7B, MATH 9C

If the sending institution offers ***honors courses***, the articulation for the same course number will be used.

For more information regarding this major and UCR's transfer selection process, please visit Bourns College of Engineering General Requirements.
For information about the UC Transfer Admission Guarantee (TAG) program, please visit Transfer Admission Guarantee.

IGETC and General Education/Breadth Information
The Bourns College of Engineering (BCOE) accepts completion of IGETC as satisfying the college's lower division general education/breadth requirements for transfer students. Additional upper division breadth requirements may be required after enrollment in BCOE. Please visit "***GE Areas - Transfer Institution***" for the complete list of required GE/Breadth Articulation Agreement. For more information on BCOE breadth requirements, go to Bourns College of Engineering Breadth Requirements. Prospective applicants are strongly encouraged to focus instead on preparatory course work for the major, such as the mathematics, science and other technical preparatory course work listed below, rather than IGETC. Strong technical preparation is essential for success in the admissions process, and subsequently, in all coursework at BCOE.

LOWER DIVISION MAJOR REQUIREMENTS

Required for admission
All courses in this section are required

CS 10A - Intro to Computer Science for Science, Mathematics, and Engineering I (4.00) • *An AP exam may be used to satisfy this course requirement*	←	**CS 114** - Programming in C (3.00)
CS 10B - Intro to Computer Science for Science, Mathematics, and Engineering II (4.00)	←	No Course Articulated
MATH 9A - First-Year Calculus (4.00) **--- And ---** **MATH 9B** - First-Year Calculus (4.00) **--- And ---** **MATH 9C** - First-Year Calculus (4.00) • *An AP exam may be used to satisfy this course requirement*	←	**MATH 265** - Calculus with Analytic Geometry I (5.00) **--- And ---** **MATH 266** - Calculus with Analytic Geometry II (5.00)
PHYS 40A - General Physics (5.00)	←	**PHYSICS 37** - Physics for Engineers and Scientists I (5.00)

Select 3 Course(s) from the following
Required for admission

CS 11 - Intro to Discrete Structures (4.00) Same-As: MATH 11	←	No Course Articulated
CS 10C - Intro to Data Structures and Algorithms (4.00)	←	**CS 136** - Introduction to Data Structures (3.00)

CS 61 - Machine Organization and Assembly Language Programming (4.00)	←	**CS 118** - Microcomputer Assembly Language (3.00)
MATH 10A - Calculus of Several Variables (4.00)	←	**MATH 267** - Calculus with Analytic Geometry III (5.00)
PHYS 40B - General Physics (5.00)	←	**PHYSICS 37** - Physics for Engineers and Scientists I (5.00) **--- And ---** **PHYSICS 39** - Physics for Engineers and Scientists III (5.00)
PHYS 40C - General Physics (5.00)	←	**PHYSICS 38** - Physics for Engineers and Scientists II (5.00)

STRONGLY RECOMMENDED COURSES

Select 1 Course(s) from the following

Recommended

EE 20B - Linear Methods for Engineering Analysis and Design Using MATLAB (4.00)	←	No Course Articulated
MATH 31 - Applied Linear Algebra (5.00)	←	**MATH 270** - Linear Algebra (3.00)

END OF AGREEMENT