Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

To: University of California, Riverside 2022-2023 General Catalog, Quarter

From: Long Beach City 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 ExamMinimum 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 <u>Bourns College of Engineering General Requirements</u>. For information about the UC Transfer Admission Guarantee (TAG) program, please visit <u>Transfer Admission Guarantee</u>.

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 CS 11 - Introduction to Computer Science-C++ (3.00) Engineering I (4.00) --- Or --ENGR 54 - Computer Methods (3.50) An AP exam may be used to satisfy this course requirement CS 10B - Intro to Computer Science for Science, Mathematics, and CS 12 - Advanced Computer Science-C++ (4.00) Engineering II (4.00) MATH 9A - First-Year Calculus (4.00) MATH 60 - First Calculus Course (5.00) --- And ----- And ---MATH 9B - First-Year Calculus (4.00) MATH 70 - Second Calculus Course (5.00) --- And --MATH 9C - First-Year Calculus (4.00) An AP exam may be used to satisfy this course requirement PHYS 40A - General Physics (5.00) PHYS 3A - Physics for Sci & Eng. - Mechanics (5.50)

Required for admission			
CS 11 - Intro to Discrete Structures (4.00) Same-As: MATH 11	← MATH 55 - Discrete Mathematics (4.00)		
CS 10C - Intro to Data Structures and Algorithms (4.00)	← No Course Articulated		

Select 3 Course(s) from the following

CS 61 - Machine Organization and Assembly Language Programming (4.00)	← No Course Articulated
MATH 10A - Calculus of Several Variables (4.00)	← MATH 80 - Third Calculus Course (5.00)
PHYS 40B - General Physics (5.00)	PHYS 3A - Physics for Sci & Eng Mechanics (5.50) And PHYS 3C - Physics for Sci. and Eng Modern Physics (4.50)
PHYS 40C - General Physics (5.00)	← PHYS 3B - Physics for Sci. &EngE & M (4.50)

STRONGLY RECOMMENDED COURSES

Select 1 Course(s) from the following				
Recommended				
EE 20B - Linear Methods for Engineering Analysis and Design Using MATLAB (4.00)	\leftarrow	No Course Articulated		
MATH 31 - Applied Linear Algebra (5.00)	\leftarrow	MATH 84 - Intro to Differential Equations and Linear Algebra (5.00)		

END OF AGREEMENT