Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

To: California State University, Fullerton 2022-2023 General Catalog, Semester

From: Barstow Community College 2022-2023 General Catalog, Semester

Computer Science, B.S.

COMPUTER SCIENCE

The degree program for the Bachelor of Science in Computer Science assumes that students have already obtained a working knowledge of personal computing fundamentals and applications, including word processing, spreadsheets, database systems, e-mail systems and presentation graphics.

The curriculum begins with a three-course sequence covering concepts of programming and data structures. If students have knowledge of these topics, but do not have the courses to transfer, nor AP scores to submit, they may take the Computer Science Placement Examination to waive one or more of these courses. The test may be taken only once, and scores are valid for two consecutive semesters.

General Education

All students at Cal State Fullerton are expected to complete prescribed units of General Education that are made up of courses outside of their chosen disciplines. Students seeking a degree in Engineering have been provided exceptions from some of the General Education requirements. For this reason, it is important that students take the approved G.E. courses for Engineering majors that are found in their Titan Degree Audit (TDA). Additionally, they should confirm the G.E. courses that are required within their specific programs with their respective advisers.

LOWER DIVISION CORE

CPSC 120 - Introduction to Programming (3.00)	← No Course Articulated
CPSC 121 - Object-Oriented Programming (3.00)	CSIS 33 - Programming Concepts & Methodology I Using C++ (3.00)
CPSC 131 - Data Structures (3.00)	← CSIS 35 - Data Structures (3.00)
CPSC 240 - Computer Organization & Assembly Language (3.00)	 CSIS 10 - Computer Architecture and Organization with Assem Programming (3.00)
CPSC 253 - Cybersecurity Foundations and Principles (3.00)	← No Course Articulated
	And
	e(s) from the following
Select 1 Course	
Select 1 Course CPSC 223C - C Programming (3.00)	e(s) from the following
	e(s) from the following ← No Course Articulated

MATHEMATICS REQUIREMENTS

Select 18 Semester Unit(s) from the following				
MATH 150A - Calculus I (4.00)	← MATH 4A - Calculus I (4.00)			
MATH 150B - Calculus II (4.00)	← MATH 4B - Calculus II (4.00)			
MATH 170A - Mathematical Structures I (3.00)	← CSIS 18 - Discrete Structures (3.00)			
MATH 170B - Mathematical Structure II (3.00)	← No Course Articulated			
MATH 338 - Stat Appl to Natural Sci (4.00)	← No Course Articulated			

	<u> </u>) from the following
BIOL 101 - Elements of Biology (3.00)	←	No Course Articulated
BIOL 101L - Elements of Biology Laboratory (1.00)	←	No Course Articulated
BIOL 151 - Cellular & Molecular Biology (4.00)	←	BIOL 20A - Cell and Molecular Biology (4.00)
BIOL 152 - Evolution & Organismal Biology (4.00)	<u>←</u>	BIOL 20B - Evolution and Organismal Biology (4.00)
CHEM 120A - General Chemistry (5.00)	←	No Course Articulated
CHEM 120B - General Chemistry (5.00)	\leftarrow	No Course Articulated
CHEM 123 - Chemistry for Engineers (3.00)	←	No Course Articulated
CHEM 125 - Gen Chemistry B Lecture (3.00)	<u>←</u>	No Course Articulated
GEOL 101 - Introduction to Geology (3.00)	←	No Course Articulated
GEOL 101L - Introduction to Geology Laboratory (1.00)	\leftarrow	No Course Articulated
GEOL 201 - Earth History (3.00)	\leftarrow	No Course Articulated
GEOL 201L - Earth History Supplemental Lab (1.00)	\leftarrow	No Course Articulated
MATH 250A - Calculus III (4.00)	←	MATH 4C - Calculus III (4.00)
MATH 250B - Intro to Linear Algebra and Diff. Equations (4.00)	\leftarrow	MATH 9 - Ordinary Differential Equation (3.00)
		And
		MATH 10 - Introduction to Linear Algebra (3.00)
PHYS 225 - Fundamental Phys; Mechanics (3.00)	←	No Course Articulated
PHYS 225L - Fundamental Physics Lab (1.00)	\leftarrow	No Course Articulated
PHYS 226 - Fund Phys.Elect + Magnetism (3.00)	\leftarrow	No Course Articulated
PHYS 226L - Fundamental Physics Lab (1.00)	\leftarrow	No Course Articulated
PHYS 227 - Fund Phys: Waves, Optics, & Mod Phys (1.00 - 3.00)	\leftarrow	No Course Articulated
PHYS 227L - Fundamental Physics Lab (1.00)	\leftarrow	No Course Articulated

COMPUTER SCIENCE ELECTIVES

CPSC 254 - Software Development with Open Source Systems (3.00) ← No Course Articulated

REQUIRED FOR GRADUATION

POSC 100 - American Government (3.00) ← POLI 1 - American Political Institutions (3.00)

ARTICULATION DETAILS





