# **Articulation Agreement by Major**

Effective during the 2022-2023 Academic Year

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

From: Bakersfield 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**

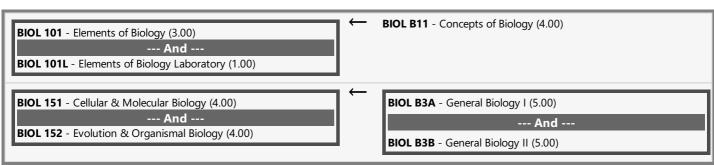
Select 15 Semest	ter Unit(s) from the following
CPSC 120 - Introduction to Programming (3.00)	COMP B10 - Introduction to Programming Methodologies using Python (3.00)
CPSC 121 - Object-Oriented Programming (3.00)	← COMP B11 - Programming Concepts and Methodology I (3.00)
CPSC 131 - Data Structures (3.00)	← COMP B12 - Programming Concepts and Methodology II (3.00)
<b>CPSC 240</b> - Computer Organization & Assembly Language (3.00	O) COMP B13 - Computer Architecture and Organization (3.00)
CPSC 253 - Cybersecurity Foundations and Principles (3.00)	← No Course Articulated
	And
Select 1 Cour	rse(s) from the following
CPSC 223C - C Programming (3.00)	← No Course Articulated
CPSC 223J - Java Programming (3.00)	← No Course Articulated
CPSC 223N - Visual C# Programming (3.00)	← No Course Articulated

## **MATHEMATICS REQUIREMENTS**

Select 18 Semester Unit(s) from the following				
<b>MATH 150A</b> - Calculus I (4.00)	← MATH B6A - Analytic Geometry/Calculus I (4.00)			
<b>MATH 150B</b> - Calculus II (4.00)	← MATH B6B - Analytic Geometry/Calculus II (4.00)			
MATH 170A - Mathematical Structures I (3.00)	← COMP B14 - 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			

MATH AND SCIENCE (WITH CORRESPONDING LAB) ELECTIVES- SEE ADDITIONAL INFORMATION UNDER ARTICULATION DETAILS

PIOL 404 Floreste (Picker (200)		
BIOL 101 - Elements of Biology (3.00)	$\leftarrow$	No Course Articulated
BIOL 101L - Elements of Biology Laboratory (1.00)	$\leftarrow$	No Course Articulated
BIOL 151 - Cellular & Molecular Biology (4.00)	$\leftarrow$	No Course Articulated
BIOL 152 - Evolution & Organismal Biology (4.00)	<b>←</b>	No Course Articulated
CHEM 120A - General Chemistry (5.00)	<b>←</b>	CHEM B1A - General Chemistry I (5.00)
CHEM 120B - General Chemistry (5.00)	$\leftarrow$	CHEM B1B - General Chemistry and Chemical Analysis (5.00)
CHEM 123 - Chemistry for Engineers (3.00)	$\leftarrow$	No Course Articulated
CHEM 125 - Gen Chemistry B Lecture (3.00)	<b>←</b>	No Course Articulated
<b>GEOL 101</b> - Introduction to Geology (3.00)	<b>←</b>	GEOL B10 - Introduction to Geology (3.00)
GEOL 101L - Introduction to Geology Laboratory (1.00)	$\leftarrow$	GEOL B10L - Introduction to Geology Laboratory (1.00)
<b>GEOL 201</b> - Earth History (3.00)	$\leftarrow$	No Course Articulated
<b>GEOL 201L</b> - Earth History Supplemental Lab (1.00)	<b>←</b>	No Course Articulated
<b>MATH 250A</b> - Calculus III (4.00)	<b>←</b>	MATH B6C - Calculus III (4.00)
MATH 250B - Intro to Linear Algebra and Diff. Equations (4.00)	$\leftarrow$	MATILECE Ordinary Differential Franctions (200)
		MATH B6D - Ordinary Differential Equations (3.00) And
		MATH B6E - Elementary Linear Algebra (3.00)
		Linear Augesta (5.50)
PHYS 225 - Fundamental Phys; Mechanics (3.00)	<b>←</b>	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
<b>PHYS 227</b> - Fund Phys: Waves, Optics, & Mod Phys (1.00 - 3.00)	$\leftarrow$	No Course Articulated
	$\leftarrow$	No Course Articulated
PHYS 227L - Fundamental Physics Lab (1.00)		
·	SCIEN	CE ELECTIVES
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COMPUTER S  CPSC 254 - Software Development with Open Source Systems (3.00)	<b>←</b>	No Course Articulated
CPSC 254 - Software Development with Open Source Systems (3.00)	<b>←</b>	
CPSC 254 - Software Development with Open Source Systems (3.00)	<b>←</b>	No Course Articulated



CHEM 120A - General Chemistry (5.00)

--- And --CHEM 120B - General Chemistry (5.00)

CHEM B1A - General Chemistry I (5.00)

--- And --CHEM B1B - General Chemistry and Chemical Analysis (5.00)

