# **Articulation Agreement by Major**

Effective during the 2022-2023 Academic Year

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

From: Contra Costa 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 112 - Introduction to Programming (4.00)
CPSC 121 - Object-Oriented Programming (3.00)	← No Course Articulated
CPSC 131 - Data Structures (3.00)	← <b>COMP 210</b> - Program Design and Data Structures (4.00)
CPSC 240 - Computer Organization & Assembly Language (3.00	COMP 265 - Assembly Language Programming/Computer Organization (4.00)
CPSC 253 - Cybersecurity Foundations and Principles (3.00)	← No Course Articulated
	And
Select 1 Cou	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

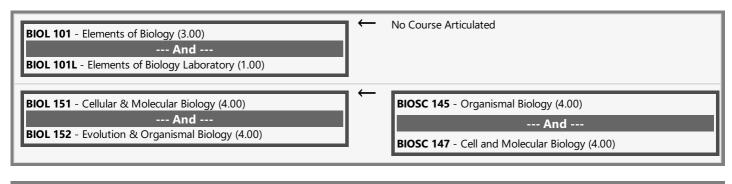
### **MATHEMATICS REQUIREMENTS**

Select 18 Semester Unit(s) from the following			
<b>MATH 150A</b> - Calculus I (4.00)	← MATH 190 - Analytic Geometry and Calculus I (5.00)		
<b>MATH 150B</b> - Calculus II (4.00)	← MATH 191 - Analytic Geometry and Calculus II (4.00)		
MATH 170A - Mathematical Structures I (3.00)	← No Course Articulated		
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

BIOL 101L - Elements of Biology Laboratory (1.00) BIOL 151 - Cellular & Molecular Biology (4.00)	$\leftarrow$	No Course Articulated
	$\leftarrow$	No Course Articulated
<b>57</b> · · ·	<b>←</b>	BIOSC 147 - Cell and Molecular Biology (4.00)
BIOL 152 - Evolution & Organismal Biology (4.00)	<b>←</b>	BIOSC 145 - Organismal Biology (4.00)
CHEM 120A - General Chemistry (5.00)	<b>←</b>	CHEM 120 - General College Chemistry I (5.00)
CHEM 120B - General Chemistry (5.00)	$\leftarrow$	CHEM 121 - General College Chemistry II (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
GEOL 101 - Introduction to Geology (3.00)	<b>←</b>	No Course Articulated
GEOL 101L - Introduction to Geology Laboratory (1.00)	$\leftarrow$	No Course Articulated
<b>GEOL 201</b> - Earth History (3.00)	$\leftarrow$	No Course Articulated
GEOL 201L - Earth History Supplemental Lab (1.00)	<b>←</b>	No Course Articulated
MATH 250A - Calculus III (4.00)	<b>←</b>	MATH 290 - Analytic Geometry and Calculus III (5.00)
MATH 250B - Intro to Linear Algebra and Diff. Equations (4.00)	<b>←</b>	MATH 200 - Introduction to Linear Algebra (4.00)
		And MATH 292 - Introduction to Differential Equations (4.00)
PHYS 225 - Fundamental Phys; Mechanics (3.00)	<b>←</b>	
PHYS 225 - Fundamental Phys; Mechanics (3.00) PHYS 225L - Fundamental Physics Lab (1.00)	← ←	MATH 292 - Introduction to Differential Equations (4.00)
· · · · · · · · · · · · · · · · · · ·	← ← ←	MATH 292 - Introduction to Differential Equations (4.00)  No Course Articulated
PHYS 225L - Fundamental Physics Lab (1.00)	← ← ← ←	MATH 292 - Introduction to Differential Equations (4.00)  No Course Articulated  No Course Articulated
PHYS 225L - Fundamental Physics Lab (1.00) PHYS 226 - Fund Phys.Elect + Magnetism (3.00)	← ← ← ←	MATH 292 - Introduction to Differential Equations (4.00)  No Course Articulated  No Course Articulated  No Course Articulated

## **ARTICULATION DETAILS**

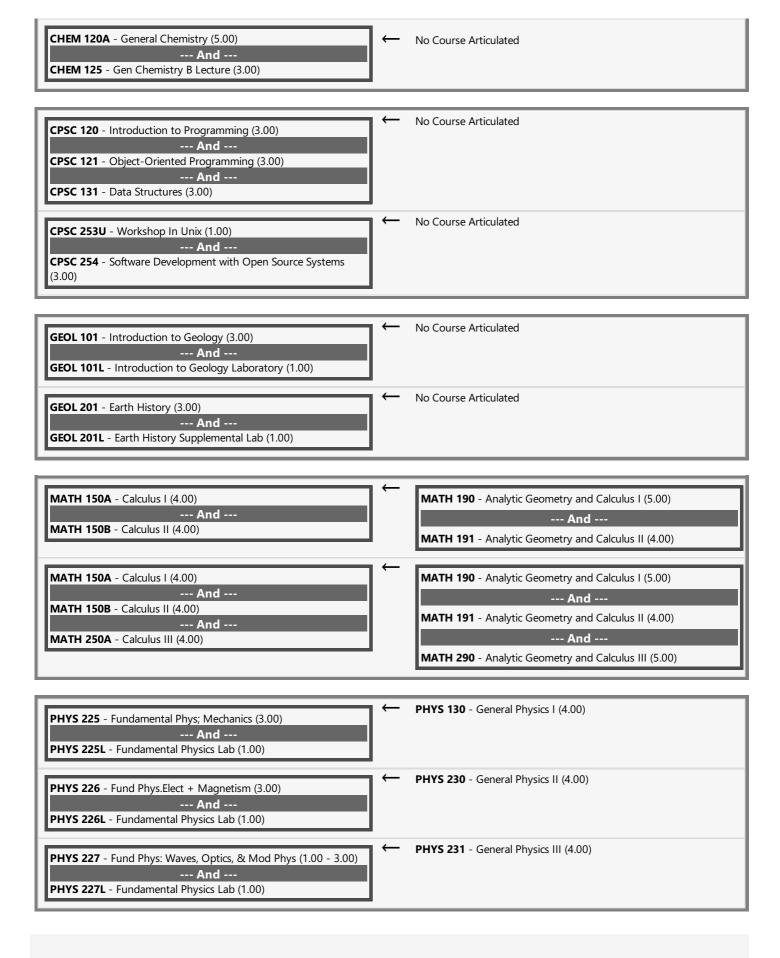


CHEM 120A - General Chemistry (5.00)

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

CHEM 120 - General College Chemistry I (5.00)

--- And --
CHEM 121 - General College Chemistry II (5.00)



#### **END OF AGREEMENT**