# **Articulation Agreement by Major**

Effective during the 2022-2023 Academic Year

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

From: Santa Monica 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 Semester	Unit(s)	) from the following
CPSC 120 - Introduction to Programming (3.00)	<b>←</b>	<b>CS 50</b> - C Programming (3.00) <b>Or</b>
CPSC 121 - Object-Oriented Programming (3.00)	<b>←</b>	<b>CS 87A</b> - Python (3.00) <b>CS 52</b> - C++ Programming (3.00)
CPSC 131 - Data Structures (3.00)	<b>←</b>	CS 20A - Data Structures with C++ (3.00)  Or CS 20B - Data Structures with JAVA (3.00)
CPSC 240 - Computer Organization & Assembly Language (3.00)	$\leftarrow$	CS 17 - Assembly Language Programming (3.00)
CPSC 253 - Cybersecurity Foundations and Principles (3.00)	<b>←</b>	Course(s) Denied: CS 73C;
-	And	
Select 1 Course	e(s) fro	m the following
CPSC 223C - C Programming (3.00)	$\leftarrow$	No Course Articulated
CPSC 223J - Java Programming (3.00)	$\leftarrow$	CS 55 - JAVA Programming (3.00)
CPSC 223N - Visual C# Programming (3.00)	$\leftarrow$	No Course Articulated
CPSC 223P - Python Programming (3.00)	$\leftarrow$	No Course Articulated

### **MATHEMATICS REQUIREMENTS**

Select 18 Semester Unit(s) from the following			
<b>MATH 150A</b> - Calculus I (4.00)	← <b>MATH 7</b> - Calculus 1 (5.00)		
<b>MATH 150B</b> - Calculus II (4.00)	← MATH 8 - Calculus 2 (5.00)		

MATH 170A - Mathematical Structures I (3.00)	← MATH 10 - 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

### ARTICUI ATION DETAILS

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Select 12 Semeste	er Unit(s) 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)	← No Course Articulated			
BIOL 152 - Evolution & Organismal Biology (4.00)	← No Course Articulated			
CHEM 120A - General Chemistry (5.00)	← CHEM 11 - General Chemistry I (5.00)			
CHEM 120B - General Chemistry (5.00)	CHEM 12 - General Chemistry II (5.00)			
CHEM 123 - Chemistry for Engineers (3.00)	← No Course Articulated			
CHEM 125 - Gen Chemistry B Lecture (3.00)	← No Course Articulated			
GEOL 101 - Introduction to Geology (3.00)	← GEOL 1 - Physical Geology without Laboratory (3.00)			
GEOL 101L - Introduction to Geology Laboratory (1.00)	← No Course Articulated			
<b>GEOL 201</b> - Earth History (3.00)	← No Course Articulated			
GEOL 201L - Earth History Supplemental Lab (1.00)	← No Course Articulated			
<b>MATH 250A</b> - Calculus III (4.00)	← MATH 11 - Multivariable Calculus (5.00)			
MATH 250B - Intro to Linear Algebra and Diff. Equations (4.00)	MATH 13 - Linear Algebra (3.00)  And  MATH 15 - Differential Equations (3.00)			
PLIVE 225 Fundamental Phys. Machanics (2.00)	A No Course Astigulated			

PHYS 225 - Fundamental Phys; Mechanics (3.00)	$\leftarrow$	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
PHYS 227L - Fundamental Physics Lab (1.00)	$\leftarrow$	No Course Articulated

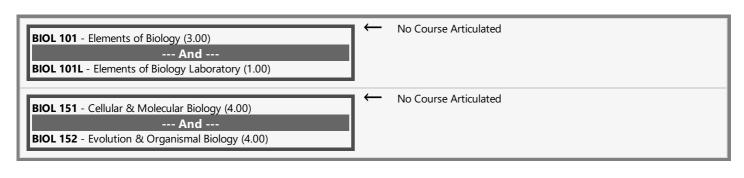
# **COMPUTER SCIENCE ELECTIVES**

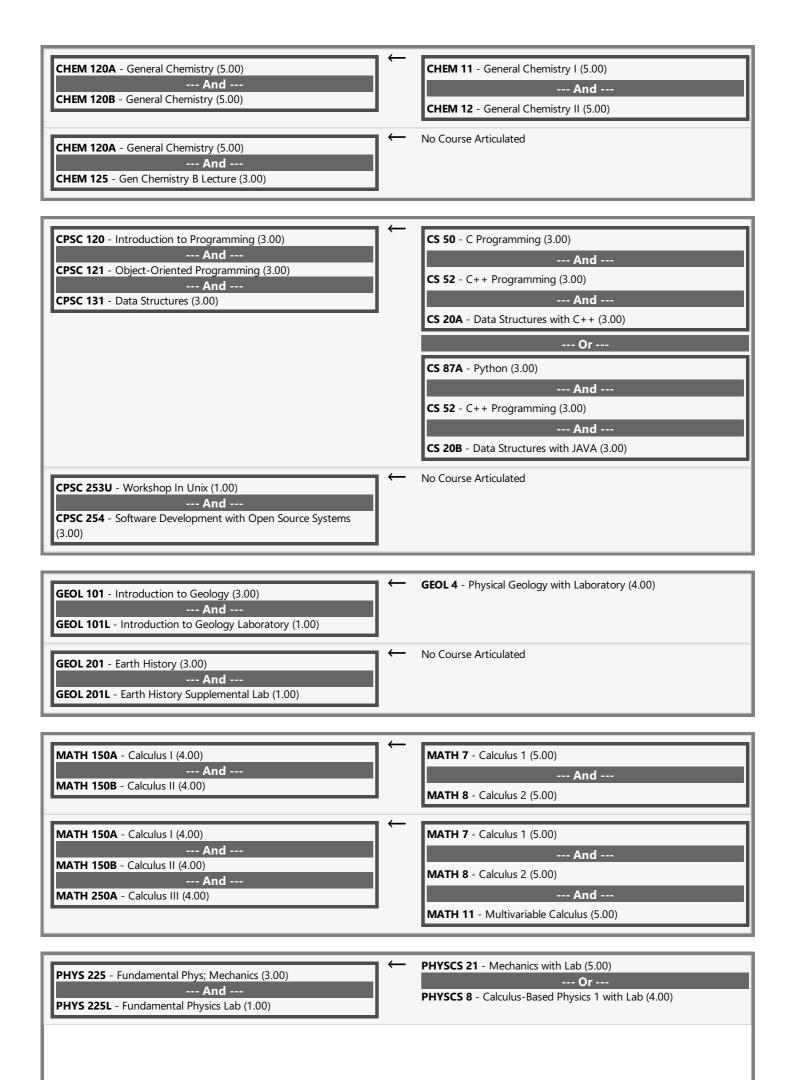
**CPSC 254** - Software Development with Open Source Systems (3.00) ← No Course Articulated

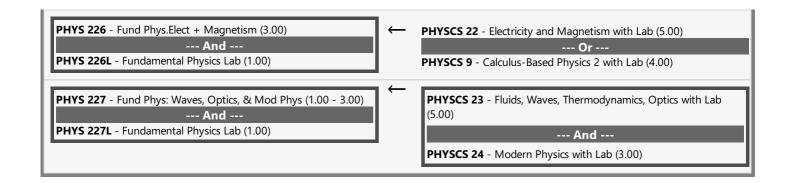
### **REQUIRED FOR GRADUATION**

POSC 100 - American Government (3.00) ← POL SC 1 - National and California Government (3.00)

### **ARTICULATION DETAILS**







## **END OF AGREEMENT**