# **Articulation Agreement by Major**

Effective during the 2022-2023 Academic Year

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

From: Las Positas 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)	← CS 7 - Introduction to Computer Programming Concepts (3.00)
CPSC 121 - Object-Oriented Programming (3.00)	← CS 1 - Computing Fundamentals I (4.00)
CPSC 131 - Data Structures (3.00)	← No Course Articulated
CPSC 240 - Computer Organization & Assembly Language (3.00)	<ul> <li>CS 21 - Computer Organization and Assembly Language Programming (4.00)</li> </ul>
CPSC 253 - Cybersecurity Foundations and Principles (3.00)	← No Course Articulated
	And
Select 1 Course	e(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
	← No Course Articulated

#### **MATHEMATICS REQUIREMENTS**

Select 18 Semester Unit(s) from the following				
<b>MATH 150A</b> - Calculus I (4.00)	← MATH 1 - Calculus I (5.00)			
MATH 150B - Calculus II (4.00)	← MATH 2 - Calculus II (5.00)			
MATH 170A - Mathematical Structures I (3.00)	← CS 17 - Discrete Mathematical Structures (4.00)			
WATH 170A - Wathematical Structures 1 (3.00)	Same-As: MATH 10			
MATH 1708 - Mathematical Structure II (3.00)	,			

Select 12 Semeste	r Unit(s) fı	rom the following
BIOL 101 - Elements of Biology (3.00)	<b>←</b> N	No Course Articulated
BIOL 101L - Elements of Biology Laboratory (1.00)	← ハ	lo Course Articulated
BIOL 151 - Cellular & Molecular Biology (4.00)	← в	BIO 1C - Cell and Molecular Biology (5.00)
BIOL 152 - Evolution & Organismal Biology (4.00)	<b>←</b> N	No Course Articulated
CHEM 120A - General Chemistry (5.00)	← 0	CHEM 1A - General College Chemistry I (5.00)
CHEM 120B - General Chemistry (5.00)	← c	CHEM 1B - General College Chemistry II (5.00)
CHEM 123 - Chemistry for Engineers (3.00)	<b>←</b> N	No Course Articulated
CHEM 125 - Gen Chemistry B Lecture (3.00)	<b>←</b> N	No Course Articulated
GEOL 101 - Introduction to Geology (3.00)	← 6	GEOL 1 - Physical Geology (3.00)
GEOL 101L - Introduction to Geology Laboratory (1.00)	← 6	GEOL 1L - Physical Geology Laboratory (1.00)
<b>GEOL 201</b> - Earth History (3.00)	← 6	SEOL 2 - Historical Geology (4.00)
<b>GEOL 201L</b> - Earth History Supplemental Lab (1.00)	← 6	SEOL 3L - Historical Geology Laboratory (1.00)
<b>MATH 250A</b> - Calculus III (4.00)	<b>←</b> N	<b>NATH 3</b> - Multivariable Calculus (5.00)
MATH 250B - Intro to Linear Algebra and Diff. Equations (4.00)	← [	MATH 5 - Ordinary Differential Equations (3.50)
		And
		MATH 7 - Elementary Linear Algebra (3.50)
PHYS 225 - Fundamental Phys; Mechanics (3.00)	<b>←</b> N	No Course Articulated
PHYS 225L - Fundamental Physics Lab (1.00)	<b>←</b> N	No Course Articulated
PHYS 226 - Fund Phys.Elect + Magnetism (3.00)	← ハ	No Course Articulated
PHYS 226L - Fundamental Physics Lab (1.00)	← ハ	No Course Articulated
<b>PHYS 227</b> - Fund Phys: Waves, Optics, & Mod Phys (1.00 - 3.00)	<b>←</b> N	No Course Articulated
PHYS 227L - Fundamental Physics Lab (1.00)	<b>←</b> N	No Course Articulated

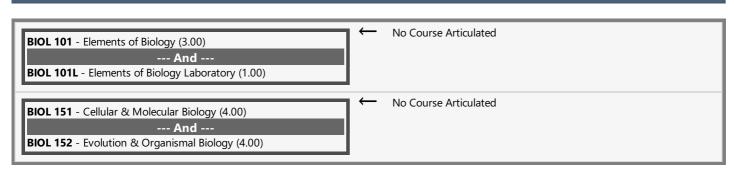
# **COMPUTER SCIENCE ELECTIVES**

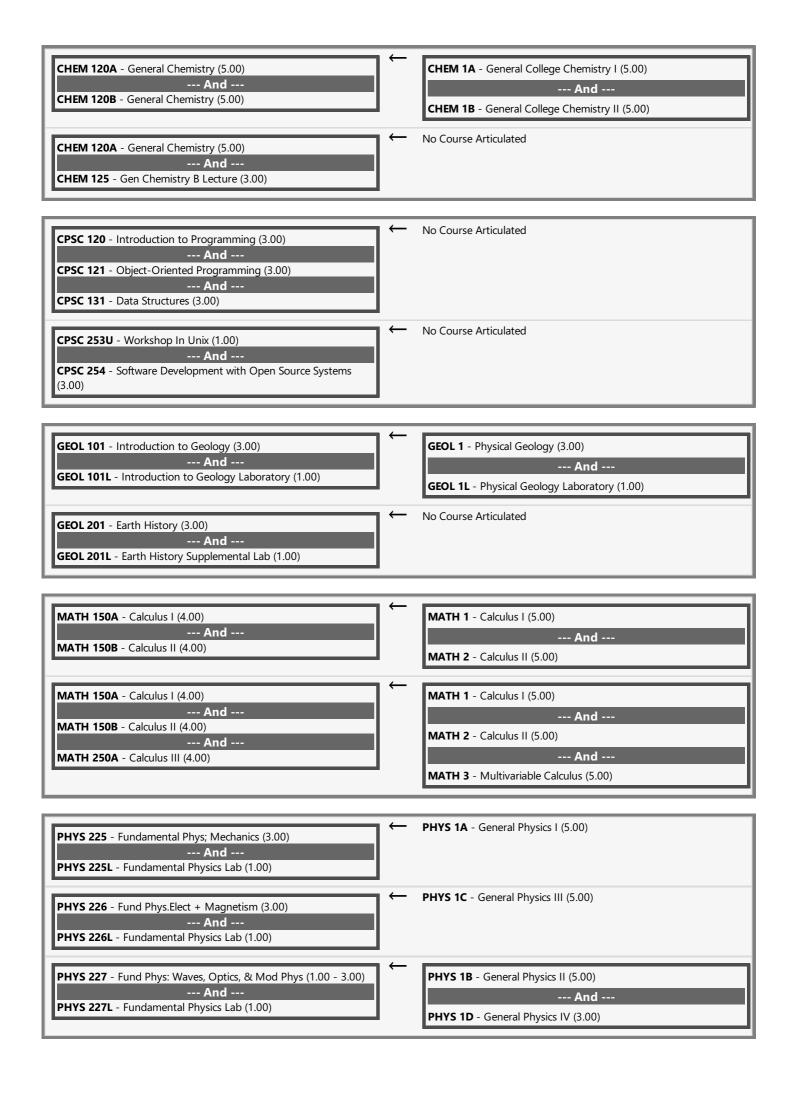
**CPSC 254** - Software Development with Open Source Systems (3.00) ← No Course Articulated

### **REQUIRED FOR GRADUATION**

POSC 100 - American Government (3.00) ← POLI 7 - Introduction to American Government (4.00)

# **ARTICULATION DETAILS**





# **END OF AGREEMENT**