# **Articulation Agreement by Major**

Effective during the 2022-2023 Academic Year

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

From: Santa Barbara City 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)	← No Course Articulated			
CPSC 121 - Object-Oriented Programming (3.00)	← CS 105 - Theory and Practice I (3.00)			
CPSC 131 - Data Structures (3.00)	← CS 106 - Theory and Practice II (3.00)			
CPSC 240 - Computer Organization & Assembly Language (3.00)	← CS 107 - Computer Architecture & Organization (3.00)			
CPSC 253 - Cybersecurity Foundations and Principles (3.00)	← No Course Articulated			
And				
Select 1 Course(s) from the following				
	← No Course Articulated			
CPSC 223C - C Programming (3.00)				
CPSC 223C - C Programming (3.00) CPSC 223J - Java Programming (3.00)	← No Course Articulated			
	<ul><li>← No Course Articulated</li><li>← No Course Articulated</li></ul>			

### **MATHEMATICS REQUIREMENTS**

Select 18 Semester Unit(s) from the following				
<b>MATH 150A</b> - Calculus I (4.00)	← MATH 150 - Calculus with Analytic Geometry I (5.00)			
<b>MATH 150B</b> - Calculus II (4.00)	← MATH 160 - Calculus with Analytic Geometry II (5.00)			
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

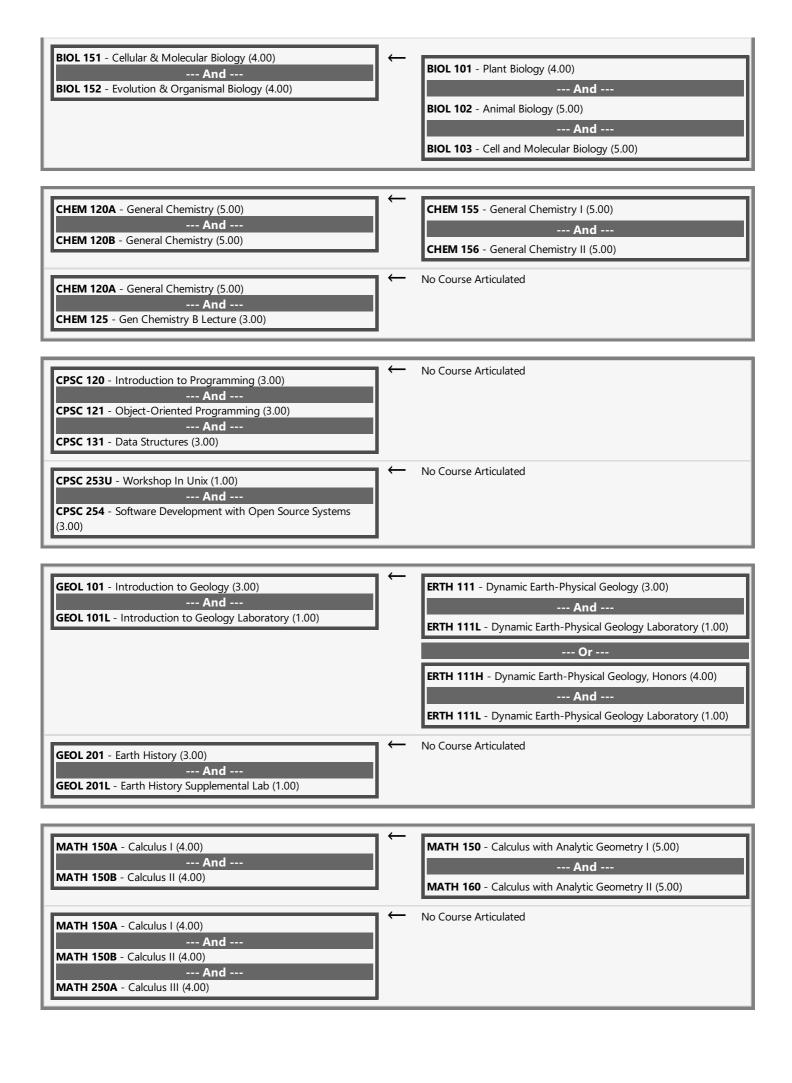
BIOL 151 - Cellular & Molecular Biology (4.00)	<b>←</b>	BIOL 103 - Cell and Molecular Biology (5.00)
BIOL 152 - Evolution & Organismal Biology (4.00)	<b>←</b>	BIOL 101 - Plant Biology (4.00) And
		BIOL 102 - Animal Biology (5.00)
CHEM 120A - General Chemistry (5.00)	<b>←</b>	CHEM 155 - General Chemistry I (5.00)
CHEM 120B - General Chemistry (5.00)	←	CHEM 156 - General 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)	←	ERTH 111 - Dynamic Earth-Physical Geology (3.00)
		ERTH 111H - Dynamic Earth-Physical Geology, Honors (4.00)
<b>GEOL 101L</b> - Introduction to Geology Laboratory (1.00)	$\leftarrow$	ERTH 111L - Dynamic Earth-Physical Geology Laboratory (1.00)
<b>GEOL 201</b> - Earth History (3.00)	$\leftarrow$	ERTH 112 - History of the Earth (3.00)
		And
		ERTH 112L - Historical Geology Laboratory (1.00)
GEOL 201L - Earth History Supplemental Lab (1.00)	<b>←</b>	No Course Articulated
Carattristory Supplemental Eab (1.00)		10 Course Articulated
<b>MATH 250A</b> - Calculus III (4.00)	<b>←</b>	No Course Articulated
MATH 250B - Intro to Linear Algebra and Diff. Equations (4.00)	$\leftarrow$	MATH 210 - Linear Algebra (4.00)
		And
		MATH 220 - Differential Equations (4.00)
PHYS 225 - Fundamental Phys; Mechanics (3.00)	_	No Course Articulated
PHYS 225L - Fundamental Physics Lab (1.00)	` <u> </u>	No Course Articulated
PHYS 226 - Fund Phys.Elect + Magnetism (3.00)	· —	No Course Articulated
PHYS 226L - Fundamental Physics Lab (1.00)	<b>←</b>	No Course Articulated
<b>PHYS 227</b> - Fund Phys: Waves, Optics, & Mod Phys (1.00 - 3.00)	<b>←</b>	No Course Articulated
PHYS 227L - Fundamental Physics Lab (1.00)	←	No Course Articulated
COMPUTER S	CIEN	CE ELECTIVES
CPSC 254 - Software Development with Open Source Systems (3.00)	<b>←</b>	No Course Articulated
REQUIRED E	OR G	RADUATION

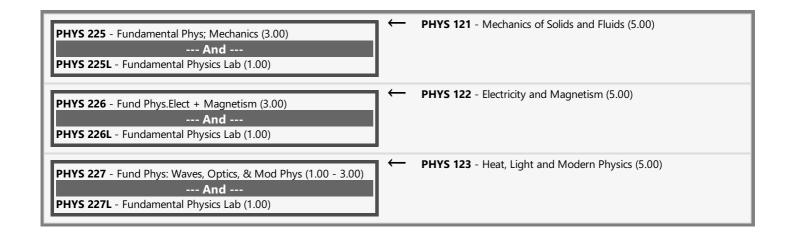
# ARTICULATION DETAILS

BIOL 101 - Elements of Biology (3.00)

--- And --BIOL 101L - Elements of Biology Laboratory (1.00)

BIOL 100 - Concepts of Biology (4.00)





## **END OF AGREEMENT**