# **Articulation Agreement by Major**

Effective during the 2022-2023 Academic Year

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

From: Riverside 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)	<b>←</b>	CSC 5 - Programming Concepts and Methodology I: C++ (4.00) Same-As: CIS 5
CPSC 121 - Object-Oriented Programming (3.00)	<b>←</b>	CIS 5 - Programming Concepts and Methodology I: C++ (4.00) Same-As: CSC 5 Or CIS 17A - Programming Concepts and Methodology II: C++ (3.00) Same-As: CSC 17A
CPSC 131 - Data Structures (3.00)	←	<b>CIS 17C</b> - C++ Programming: Data Structures (3.00) Same-As: CSC 17C
CPSC 240 - Computer Organization & Assembly Language (3.00)	←	<b>CIS 11</b> - Computer Architecture and Organization: Assembly (3.00 Same-As: CSC 11
CPSC 253 - Cybersecurity Foundations and Principles (3.00)	<b>←</b>	No Course Articulated
	- And	
Select 1 Course	(s) fro	m the following
CPSC 223C - C Programming (3.00)	$\leftarrow$	No Course Articulated
CPSC 223J - Java Programming (3.00)	<b>←</b>	CIS 18A - JAVA Programming: Objects (3.00) Same-As: CSC 18A Or
		CIS 18B - Java Programming: Advanced Objects (3.00) Same-As: CSC 18B
		Or CIS 18C - Java Programming: Data Structures (3.00) Same-As: CSC 18C
CPSC 223N - Visual C# Programming (3.00)	$\leftarrow$	No Course Articulated

#### **MATHEMATICS REQUIREMENTS**

#### **Select 18 Semester Unit(s) from the following**

**MATH 150A** - Calculus I (4.00) **← MAT 1A** - Calculus I (4.00)

<b>MATH 150B</b> - Calculus II (4.00)	← MAT 1B - Calculus II (4.00)
MATH 170A - Mathematical Structures I (3.00)	← CIS 7 - Discrete Structures (3.00) Same-As: CSC 7
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

ARTICO	LATION	N DETAILS
Select 12 Semesto	er Unit(s	) from the following
BIOL 101 - Elements of Biology (3.00)	<b>←</b>	No Course Articulated
BIOL 101L - Elements of Biology Laboratory (1.00)	$\leftarrow$	No Course Articulated
BIOL 151 - Cellular & Molecular Biology (4.00)	←	BIO 60 - Introduction to Molecular and Cellular Biology (5.00)
BIOL 152 - Evolution & Organismal Biology (4.00)	<b>←</b>	BIO 61 - Introduction to Organismal and Population Biology (5.00)
CHEM 120A - General Chemistry (5.00)	←	CHE 1A - General Chemistry, I (5.00)
CHEM 120B - General Chemistry (5.00)	$\leftarrow$	CHE 1B - 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
<b>GEOL 101</b> - Introduction to Geology (3.00)	<b>←</b>	GEO 1 - Physical Geology (3.00)  Or GEO 1L - Physical Geology Laboratory (1.00)
<b>GEOL 101L</b> - Introduction to Geology Laboratory (1.00)	<b>←</b>	<b>GEO 1L</b> - Physical Geology Laboratory (1.00)
<b>GEOL 201</b> - Earth History (3.00)	$\leftarrow$	GEO 1B - Historical Geology (4.00)
<b>GEOL 201L</b> - Earth History Supplemental Lab (1.00)	<b>←</b>	No Course Articulated
<b>MATH 250A</b> - Calculus III (4.00)	←	MAT 1C - Calculus III (4.00)
MATH 250B - Intro to Linear Algebra and Diff. Equations (4.00)	<b>←</b>	MAT 2 - Differential Equations (4.00)
		And
		MAT 3 - Linear Algebra (3.00)
PHYS 225 - Fundamental Phys; Mechanics (3.00)	<b>←</b>	No Course Articulated
PHYS 225L - Fundamental Physics Lab (1.00)	<b>←</b>	No Course Articulated
PHYS 226 - Fund Phys.Elect + Magnetism (3.00)	$\leftarrow$	No Course Articulated
PHYS 226L - Fundamental Physics Lab (1.00)	<b>←</b>	No Course Articulated
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# **COMPUTER SCIENCE ELECTIVES**

No Course Articulated

No Course Articulated

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

**PHYS 227** - Fund Phys: Waves, Optics, & Mod Phys (1.00 - 3.00)

PHYS 227L - Fundamental Physics Lab (1.00)

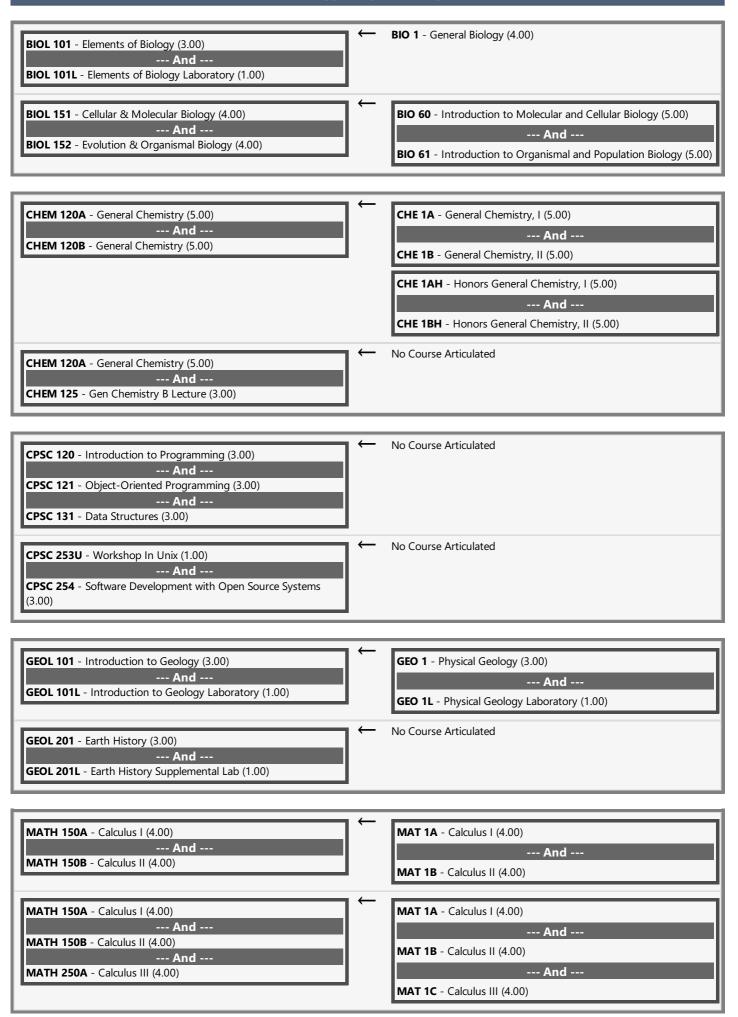
# **REQUIRED FOR GRADUATION**

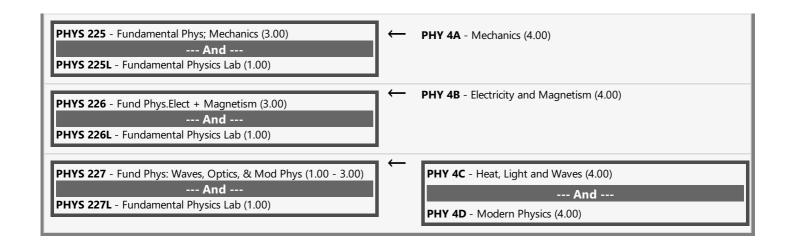
POSC 100 - American Government (3.00)

POL 1 - American Politics (3.00)

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POL 1H - Honors American Politics (3.00)

#### **ARTICULATION DETAILS**





### **END OF AGREEMENT**