Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: City College of San Francisco 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

CPSC 120 - Introduction to Programming (3.00)	CS 110A - Intro to Programming (4.00)
	Or
	CS 111A - Introduction to Programming: Java (4.00)
CPSC 121 - Object-Oriented Programming (3.00)	CS 110B - Programming Fundamentals: C++ (4.00)
	CS 111B - Programming Fundamentals: Java (4.00)
CPSC 131 - Data Structures (3.00)	← CS 110C - Data Structures and Algorithms: C++ (4.00)
	Or
	CS 111C - Data Structures and Algorithms: Java (4.00)
CPSC 240 - Computer Organization & Assembly Language (3.00)	← CS 270 - Computer Architecture with Assembly Language (4.00)
CPSC 253 - Cybersecurity Foundations and Principles (3.00)	← No Course Articulated
-	And
Select 1 Cours	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
CPSC 223P - Python Programming (3.00)	← CS 131B - Programming Fundamentals: Python (4.00)

MATHEMATICS REQUIREMENTS

	Select 18 Semester Unit(s) from the following
MATH 150A - Calculus I (4.00)	← MATH 110A - Calculus I (5.00)
MATH 150B - Calculus II (4.00)	← MATH 110B - Calculus II (5.00)

MATH 170A - Mathematical Structures I (3.00)	\leftarrow	MATH 115 - Discrete Mathematics (3.00)
MATH 170B - Mathematical Structure II (3.00)	\leftarrow	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

Select 12 Semeste	r Unit <u>(s</u>) from the following
BIOL 101 - Elements of Biology (3.00)	←	No Course Articulated
BIOL 101L - Elements of Biology Laboratory (1.00)	\leftarrow	No Course Articulated
BIOL 151 - Cellular & Molecular Biology (4.00)	\leftarrow	No Course Articulated
BIOL 152 - Evolution & Organismal Biology (4.00)	←	No Course Articulated
CHEM 120A - General Chemistry (5.00)	←	CHEM 101A - General College Chemistry (6.00)
CHEM 120B - General Chemistry (5.00)	\leftarrow	CHEM 101B - General College Chemistry (5.00)
CHEM 123 - Chemistry for Engineers (3.00)	\leftarrow	No Course Articulated
CHEM 125 - Gen Chemistry B Lecture (3.00)	←	No Course Articulated
GEOL 101 - Introduction to Geology (3.00)	←	GEOL 10 - Physical Geology (3.00)
GEOL 101L - Introduction to Geology Laboratory (1.00)	\leftarrow	GEOL 10L - Physical Geology Lab (2.00)
GEOL 201 - Earth History (3.00)	\leftarrow	No Course Articulated
GEOL 201L - Earth History Supplemental Lab (1.00)	←	No Course Articulated
MATH 250A - Calculus III (4.00)	←	MATH 110C - Calculus III (5.00)
MATH 250B - Intro to Linear Algebra and Diff. Equations (4.00)	\leftarrow	MATH 120 - Linear Algebra (3.00)
		And
		MATH 125 - Differential Equations (3.00)
		MATH 130 - Linear Algebra and Differential Equations (5.00)
PHYS 225 - Fundamental Phys; Mechanics (3.00)		No Course Articulated
PHYS 225L - Fundamental Physics Lab (1.00)	<u></u>	No Course Articulated No Course Articulated
PHYS 226 - Fund Phys.Elect + Magnetism (3.00)	<u></u>	No Course Articulated No Course Articulated
PHYS 226 - Fund Phys.Elect + Magnetism (5.00) PHYS 226L - Fundamental Physics Lab (1.00)	<u></u>	No Course Articulated No Course Articulated
PHYS 227 - Fund Phys: Waves, Optics, & Mod Phys (1.00 - 3.00)	<u>`</u>	No Course Articulated No Course Articulated
PHYS 227L - Fundamental Physics Lab (1.00)	` —	No Course Articulated No Course Articulated

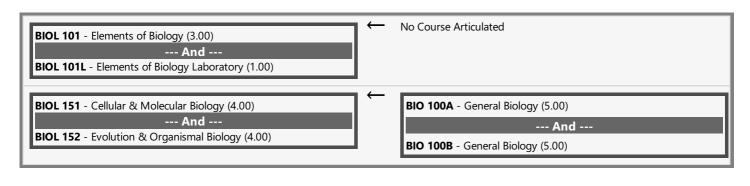
COMPUTER SCIENCE ELECTIVES

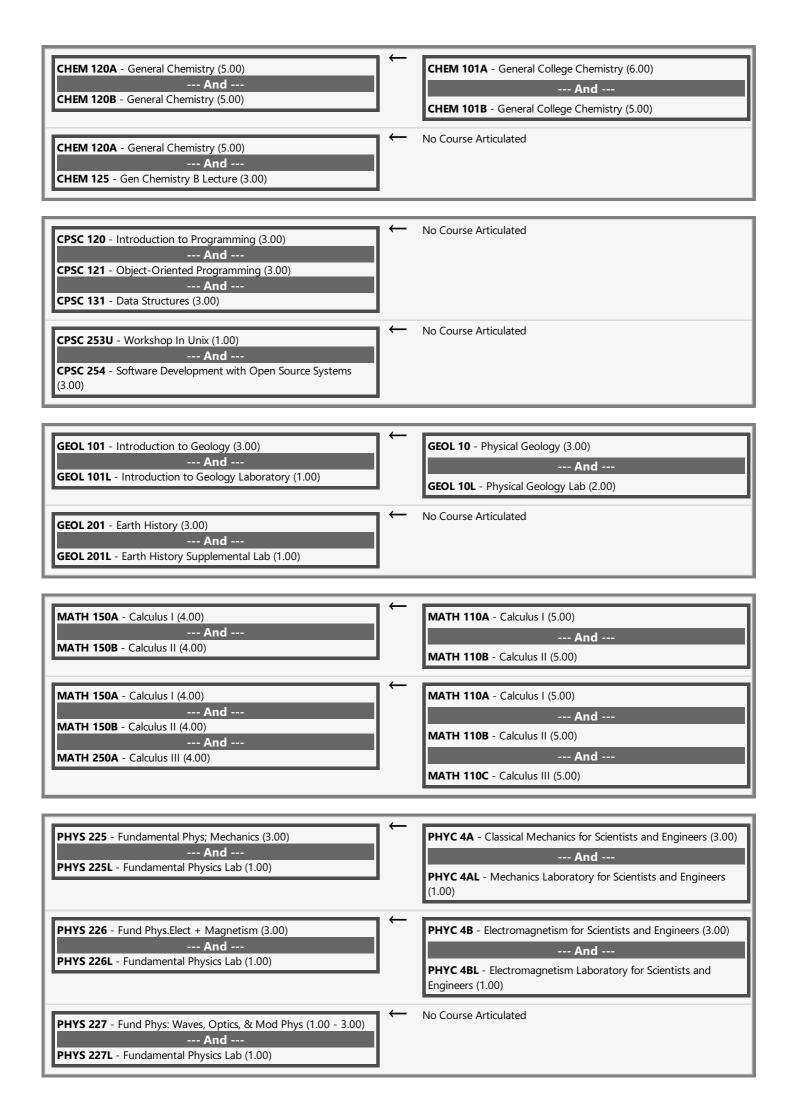
CPSC 254 - Software Development with Open Source Systems (3.00) ← No Course Articulated

REQUIRED FOR GRADUATION

POSC 100 - American Government (3.00) ← POLS 1 - American Government (3.00)

ARTICULATION DETAILS





END OF AGREEMENT