Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Long Beach 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

	r Unit(s) from the following
CPSC 120 - Introduction to Programming (3.00)	CS 11 - Introduction to Computer Science-C++ (3.00) Or COSD 7 - Programming consents and Mathadalasias (4.00)
	COSP 7 - Programming concepts and Methodologies (4.00)
CPSC 121 - Object-Oriented Programming (3.00)	← CS 12 - Advanced Computer Science-C++ (4.00)
CPSC 131 - Data Structures (3.00)	← CS 22 - Data Structures and Algorithms (3.00)
CPSC 240 - Computer Organization & Assembly Language (3.00)	← CS 51 - Introduction to Computer Architecture (3.00)
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)	← CS 21 - Introduction to Computer Science-Java (3.00)
CPSC 223N - Visual C# Programming (3.00)	← No Course Articulated
CPSC 223P - Python Programming (3.00)	← No Course Articulated

MATHEMATICS REQUIREMENTS

Select 18 Semester Unit(s) from the following				
MATH 150A - Calculus I (4.00)	← MATH 60 - First Calculus Course (5.00) Or			
	MATH 60H - Honors First Calculus Course (5.00)			
MATH 150B - Calculus II (4.00)	← MATH 70 - Second Calculus Course (5.00)			
	Or			
	MATH 70H - Honors Second Calculus Course (5.00)			

MATH 170A - Mathematical Structures I (3.00)	← CS 61 - 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

MATH AND SCIENCE (WITH CORRESPONDING LAB) ELECTIVES- SEE ADDITIONAL INFORMATION UNDER ARTICULATION DETAILS

\leftarrow	BIO 41 - Contemporary Biology (3.00)
	Or
	BIO 41H - Honors Contemporary Biology (3.00)
←	BIO 41L - Contemporary Biology Laboratory (1.00)
\leftarrow	No Course Articulated
<u>←</u>	No Course Articulated
←	CHEM 1A - General Chemistry (5.50)
\leftarrow	CHEM 1B - General Chemistry (5.50)
\leftarrow	No Course Articulated
←	No Course Articulated
←	GEOL 2 - General Geology: Physical (3.00)
\leftarrow	GEOL 2L - General Geology: Physical Geology (1.50)
←	GEOL 3 - Historical Geology (4.50)
	Or
	GEOL 3H - Honors Historical Geology (4.50)
<u></u>	No Course Articulated
←	MATH 80 - Third Calculus Course (5.00)
←	MATH 84 - Intro to Differential Equations and Linear Algebra (5.00)
←	No Course Articulated
	No Course Articulated
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COMPUTER SCIENCE ELECTIVES

← No Course Articulated

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

PHYS 227L - Fundamental Physics Lab (1.00)

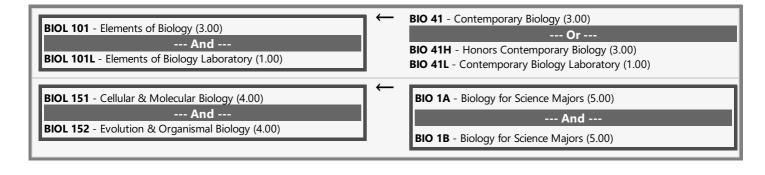
REQUIRED FOR GRADUATION

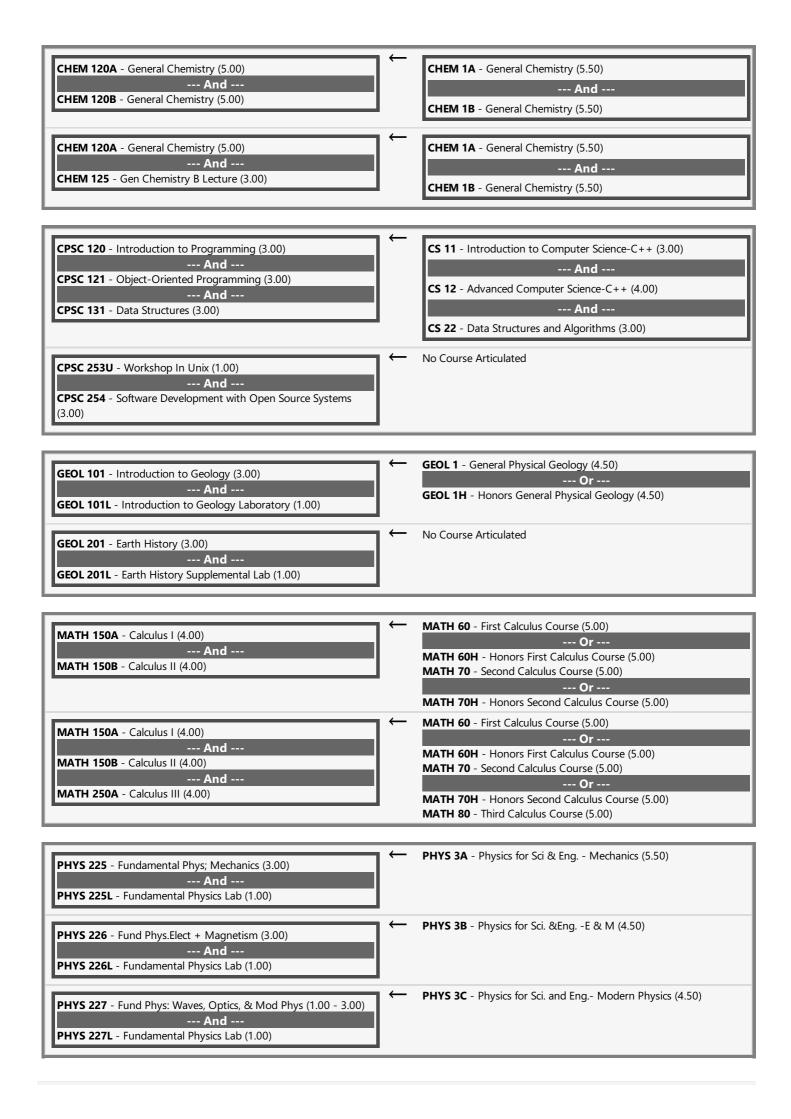
POSC 100 - American Government (3.00)

POLSC 1 - Introduction to Government (3.00)

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POLSC 1H - Honors Introduction to Government (3.00)

ARTICULATION DETAILS





END OF AGREEMENT