Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Foothill College 2022-2023 General Catalog, Quarter

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 U	nit(s) from the following
CPSC 120 - Introduction to Programming (3.00)	← C S 2AH - Honors Object-Oriented Programming Methodologies in C++ (4.50)
CPSC 121 - Object-Oriented Programming (3.00)	 C S 1A - Object-Oriented Programming Methodologies in JAVA (4.50) C S 2A - Object-Oriented Programming Methodologies in C++ (4.50) C S 1AH - Honors Object-oriented Programming Methodologies in JAVA (4.50) C S 3A - Object-Oriented Programming Methodologies in PYTHON (4.50)
CPSC 131 - Data Structures (3.00)	C S 2B - Intermediate Software Design in C++ (4.50) And C S 2C - Advanced Data Structures & Algorithims in C++ (4.50)
	Or
	C S 1B - Intermediate Software Design in JAVA (4.50) And C S 1C - Advanced Data Structures & Algorithims in JAVA (4.50)
	Or C S 1M - Intermediate Algorithm & Data Structure Methodologies in JAVA (4.50) Or C S 2M - Intermediate Algorithm & Data Structure Methodologies in C++ (4.50)
CPSC 240 - Computer Organization & Assembly Language (3.00)	← C S 10 - Computer Architecture & Organization (4.50)
CPSC 253 - Cybersecurity Foundations and Principles (3.00)	← No Course Articulated
	And
Select 1 Course(s	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)	

MATHEMATICS REQUIREMENTS

Select 18 Semester Unit(s) from the following		
MATH 150A - Calculus I (4.00)	MATH 1A - Calculus (5.00) And MATH 1B - Calculus (5.00)	
MATH 150B - Calculus II (4.00)	MATH 1BH - Honors Calculus II (5.00) And MATH 1C - Calculus (5.00)	

MATH 170A - Mathematical Structures I (3.00)	← C S 18 - Discrete Mathematics (5.00) Same-As: MATH 22
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

ARTICULATION DETAILS			
Select 12 Semeste	ter Unit(s) from the following		
BIOL 101 - Elements of Biology (3.00)	← No Course Articulated		
BIOL 101L - Elements of Biology Laboratory (1.00)	← No Course Articulated		
BIOL 151 - Cellular & Molecular Biology (4.00)	← BIOL 1A - Principles of Cell Biology (6.00)		
BIOL 152 - Evolution & Organismal Biology (4.00)	← No Course Articulated		
CHEM 120A - General Chemistry (5.00)	← CHEM 1AH - Honors General Chemistry (5.00) CHEM 1A - General Chemistry (5.00)		
CHEM 120B - General Chemistry (5.00)	CHEM 1BH - Honors General Chemistry (5.00) CHEM 1B - General Chemistry (5.00)		
CHEM 123 - Chemistry for Engineers (3.00)	← No Course Articulated		
CHEM 125 - Gen Chemistry B Lecture (3.00)	← No Course Articulated		
GEOL 101 - Introduction to Geology (3.00)	← No Course Articulated		
GEOL 101L - Introduction to Geology Laboratory (1.00)	← No Course Articulated		
GEOL 201 - Earth History (3.00)	← No Course Articulated		
GEOL 201L - Earth History Supplemental Lab (1.00)	← No Course Articulated		
MATH 250A - Calculus III (4.00)	MATH 1C - Calculus (5.00) And MATH 1D - Calculus (5.00)		
MATH 250B - Intro to Linear Algebra and Diff. Equations (4.00)	← No Course Articulated		
PHYS 225 - Fundamental Phys; Mechanics (3.00)	← No Course Articulated		
PHYS 225L - Fundamental Physics Lab (1.00)	← No Course Articulated		
PHYS 226 - Fund Phys.Elect + Magnetism (3.00)	← No Course Articulated		
PHYS 226L - Fundamental Physics Lab (1.00)	← No Course Articulated		

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

← No Course Articulated

PHYS 227L - Fundamental Physics Lab (1.00)

← No Course Articulated

COMPUTER SCIENCE ELECTIVES

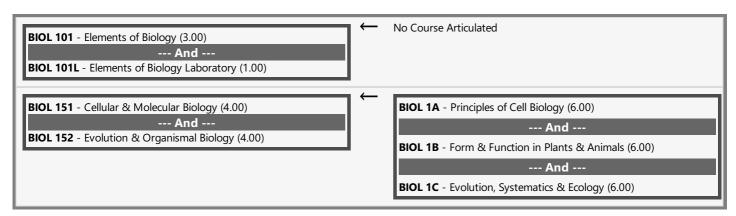
CPSC 254 - Software Development with Open Source Systems (3.00) ← No Course Articulated

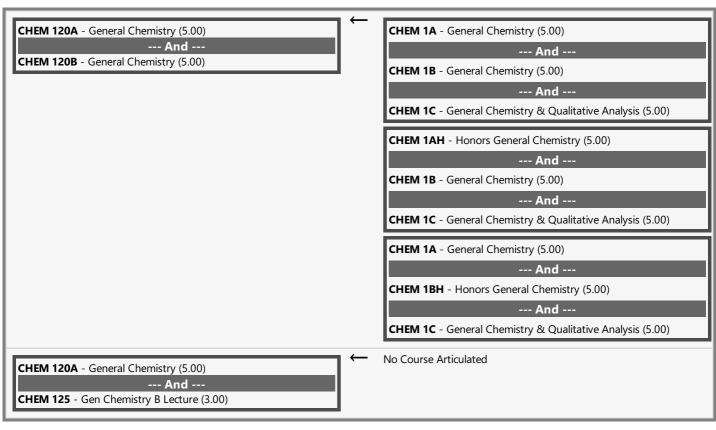
REQUIRED FOR GRADUATION

POSC 100 - American Government (3.00)

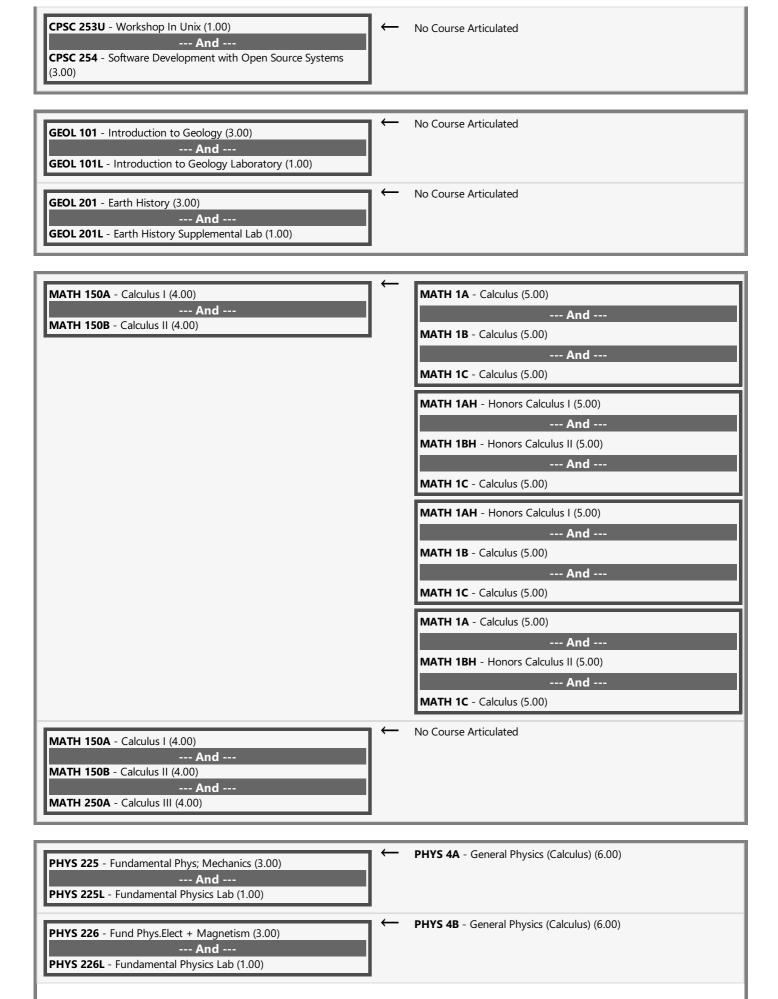
 POLI 1 - Political Science: Introduction to American Government & Politics (5.00)

ARTICULATION DETAILS









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

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PHYS 227L - Fundamental Physics Lab (1.00)

PHYS 4C - General Physics (Calculus) (6.00)

--- And --
PHYS 4D - General Physics (Calculus) (6.00)

END OF AGREEMENT