Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Cabrillo 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	r Unit(s) from the following		
CPSC 120 - Introduction to Programming (3.00)	←	CS 11 - Introduction to Programming Concepts and Methodology C++ (4.00)		
		Or		
		CS 11M - Introduction to C/C++ Programming Using Microcontrollers (4.00)		
		Or		
		CS 12GP - Introduction to Programming Using Games and Simulations (4.00)		
		Or		
		CS 12J - Introduction to Programming Concepts & Methodology, JAVA (4.00)		
CPSC 121 - Object-Oriented Programming (3.00)	\leftarrow	CS 19 - C++ Programming (4.00)		
CPSC 131 - Data Structures (3.00)	\leftarrow	CS 21 - Introduction to Data Structures and Algorithms (4.00)		
CPSC 240 - Computer Organization & Assembly Language (3.00)	\leftarrow	CS 24 - Elementary Computer Organization (4.00)		
CPSC 253 - Cybersecurity Foundations and Principles (3.00)	\leftarrow	No Course Articulated		
-	And			
Select 1 Course(s) from the following				
CPSC 223C - C Programming (3.00)	\leftarrow	No Course Articulated		
CPSC 223J - Java Programming (3.00)	\leftarrow	CS 20J - Java Programming (4.00)		
CPSC 223N - Visual C# Programming (3.00)	\leftarrow	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 5A - Analytic Geometry and Calculus I (5.00)			
MATH 150B - Calculus II (4.00)	← MATH 5B - Analytic Geometry and Calculus II (5.00)			

MATH 170A - Mathematical Structures I (3.00)	← CS 23 - Discrete Mathematics (4.00) Same-As: MATH 23
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

Select 12 Semeste	er Unit(s) from the following
BIOL 101 - Elements of Biology (3.00)	\leftarrow	No Course Articulated
BIOL 101L - Elements of Biology Laboratory (1.00)	\leftarrow	No Course Articulated
BIOL 151 - Cellular & Molecular Biology (4.00)	\leftarrow	BIO 9A - Molecular, Cellular, and Animal Biology (5.00)
BIOL 152 - Evolution & Organismal Biology (4.00)	←	BIO 9B - Ecology, Evolution, and Plant Biology (5.00)
CHEM 120A - General Chemistry (5.00)	←	CHEM 1A - General Chemistry I (5.00)
CHEM 120B - General Chemistry (5.00)	\leftarrow	CHEM 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)	←	No Course Articulated
GEOL 101 - Introduction to Geology (3.00)	←	GEOL 10 - Physical Geology (4.00)
GEOL 101L - Introduction to Geology Laboratory (1.00)	←	GEOL 10 - Physical Geology (4.00)
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 5C - Analytic Geometry and Calculus III (5.00)
MATH 250B - Intro to Linear Algebra and Diff. Equations (4.00)	←	MATH 6 - Introduction to Linear Algebra (3.00)
		And MATH 7 - Introduction to Differential Equations (3.00)
PHYS 225 - Fundamental Phys; Mechanics (3.00)	←	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

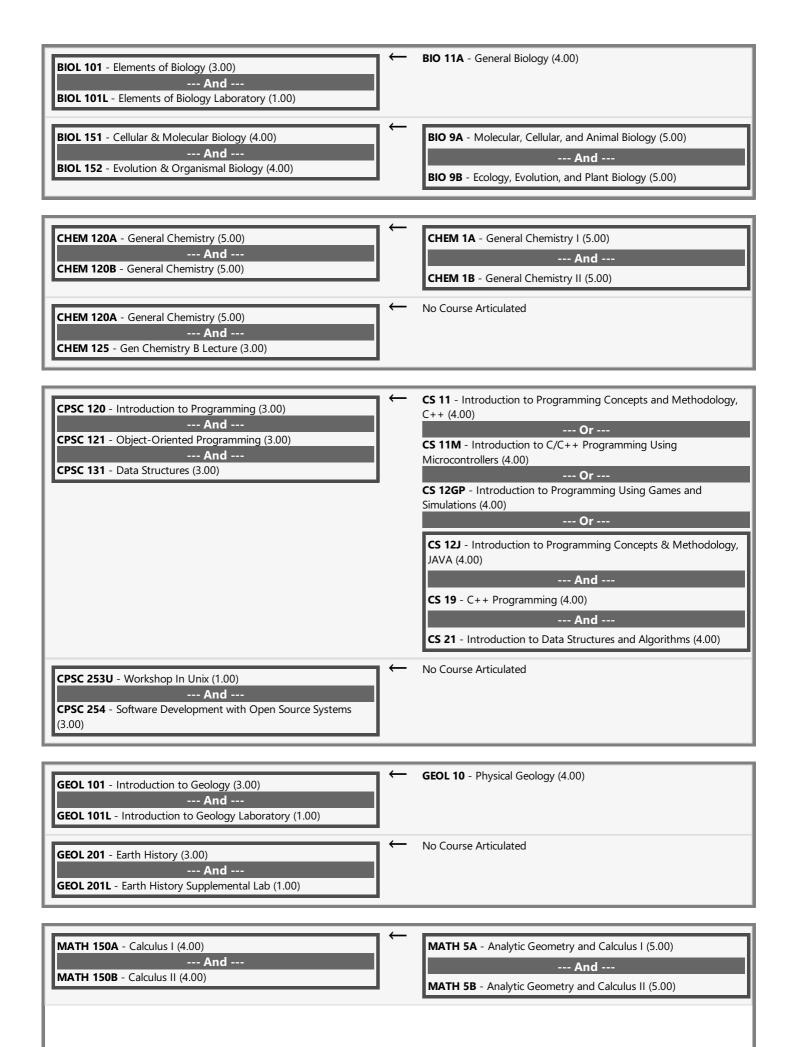
REQUIRED FOR GRADUATION

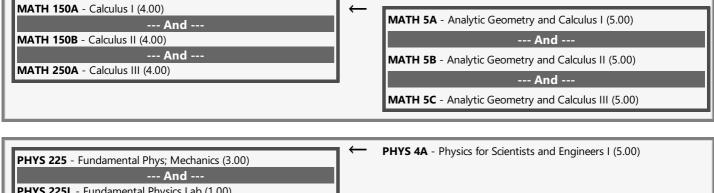
POSC 100 - American Government (3.00)

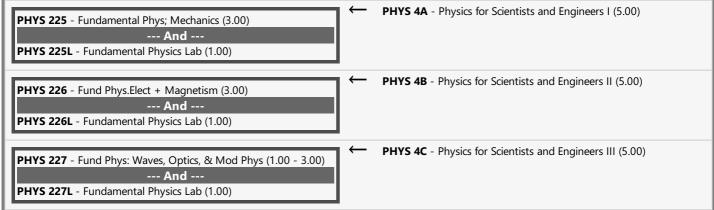
PS 1 - Introduction to Government (3.00)

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PS 1H - Honors Introduction to Government (3.00)

ARTICULATION DETAILS







END OF AGREEMENT