Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Mount San Antonio 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)	← CSCI 110 - Fundamentals of Computer Science (3.50)
CPSC 121 - Object-Oriented Programming (3.00)	← CSCI 140 - C++ Language and Object Development (4.00)
CPSC 131 - Data Structures (3.00)	← CSCI 220 - Data Structures I (3.50)
CPSC 240 - Computer Organization & Assembly Language (3.00)	← CSCI 150 - Assembly Language/Machine Architecture (3.50)
CPSC 253 - Cybersecurity Foundations and Principles (3.00)	← No Course Articulated
	And
Select 1 Course	e(s) from the following
Select 1 Course CPSC 223C - C Programming (3.00)	e(s) from the following ← No Course Articulated
CPSC 223C - C Programming (3.00)	 ← No Course Articulated ← CSCI 145 - JAVA Language and Object Oriented Programming

MATHEMATICS REQUIREMENTS

Select 18 Semester Unit(s) from the following		
MATH 150A - Calculus I (4.00)	←	MATH 180 - Calculus and Analytic Geometry (4.00)
MATH 150B - Calculus II (4.00)	←	MATH 181 - Calculus and Analytic Geometry (4.00)
MATH 170A - Mathematical Structures I (3.00)	\leftarrow	CSCI 190 - Discrete Mathematics Applied to Computer Science (4.00)
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

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 8 - Cell and Molecular Biology (4.00)
BIOL 152 - Evolution & Organismal Biology (4.00)	← No Course Articulated

CHEM 120A - General Chemistry (5.00)	←	CHEM 50 - General Chemistry I (5.00) Or
		CHEM 50H - General Chemistry I - Honors (5.00)
CHEM 120B - General Chemistry (5.00)	←	CHEM 51 - General Chemistry II (5.00) Or CHEM 51H - General Chemistry II - Honors (5.00)
CHEM 123 - Chemistry for Engineers (3.00)	\leftarrow	CHEM 55 - Chemistry for Engineers (5.00)
CHEM 125 - Gen Chemistry B Lecture (3.00)	\leftarrow	No Course Articulated

GEOL 101 - Introduction to Geology (3.00)	← GEOL 1 - Physical Geology (4.00)
GEOL 101L - Introduction to Geology Laboratory (1.00)	← GEOL 1 - Physical Geology (4.00)
GEOL 201 - Earth History (3.00)	← GEOL 2 - Historical Geology (4.00)
GEOL 201L - Earth History Supplemental Lab (1.00)	← No Course Articulated

MATH 250A - Calculus III (4.00)	←	MATH 280 - Calculus and Analytic Geometry (5.00)
MATH 250B - Intro to Linear Algebra and Diff. Equations (4.00)	←	MATH 285 - Linear Algebra and Differential Equations (5.00) Or
		MATH 260 - Linear Algebra (3.00)
		And
		MATH 290 - Differential Equations (4.00)

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) ← **CISN 31** - Linux Operating System (3.00)

REQUIRED FOR GRADUATION

POSC 100 - American Government (3.00)

POLI 1 - Introduction to American Government and Politics (3.00)

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POLI 1H - Introduction to American Government and Politics - Honors (3.00)

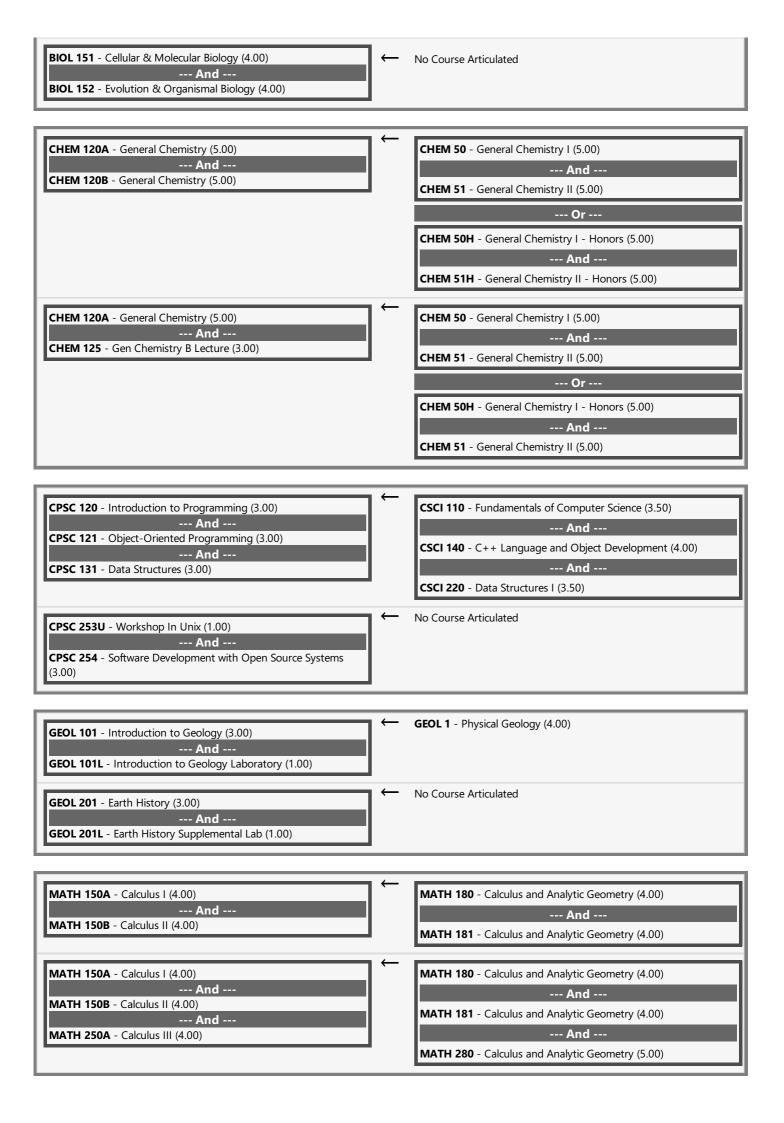
ARTICULATION DETAILS

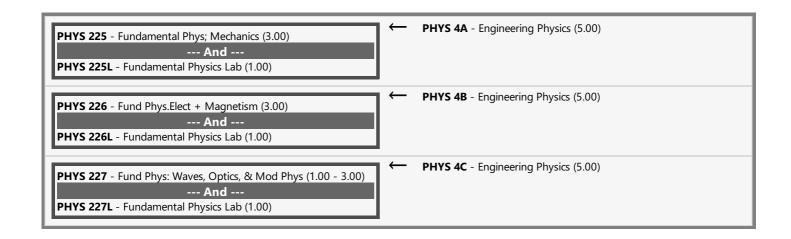
BIOL 101 - Elements of Biology (3.00)

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BIOL 101L - Elements of Biology Laboratory (1.00)

BIOL 1 - General Biology (4.00)





END OF AGREEMENT