Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Orange Coast 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)	← CS A150 - C++ Programming Language 1 (4.00)
CPSC 121 - Object-Oriented Programming (3.00)	← CS A250 - C++ Programming Language 2 (4.00)
CPSC 131 - Data Structures (3.00)	← CS A200 - Data Structures (4.00)
CPSC 240 - Computer Organization & Assembly Language (3.00)	← CS A216 - Computer Architecture (4.00)
CPSC 253 - Cybersecurity Foundations and Principles (3.00)	← No Course Articulated
	And
	And e(s) from the following
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

MATHEMATICS REQUIREMENTS

Select 18 Semester Unit(s) from the following					
MATH 150A - Calculus I (4.00)	← MATH A180 - Calculus 1 (4.00)				
	Or				
	MATH A180H - Honors Calculus 1 (4.00)				
MATH 150B - Calculus II (4.00)	← MATH A185 - Calculus 2 (4.00)				
	Or				
	MATH A185H - Honors Calculus 2 (4.00)				

MATH 170A - Mathematical Structures I (3.00)	←	MATH A230 - Introduction to Discrete Mathematics (5.00) Or CS A262 - Discrete Structures (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 Semester Unit(s) 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)	←	BIOL A180 - Introduction to Biology for Majors 1: Cell and Molecula Biology (4.00)			
BIOL 152 - Evolution & Organismal Biology (4.00)	←	BIOL A185 - Introduction to Biology for Majors 2: Ecology, Evolution, Diversity, and Physiology (5.00)			
CHEM 120A - General Chemistry (5.00)	←	CHEM A180 - General Chemistry A (5.00)			
CHEM 120B - General Chemistry (5.00)	←	CHEM A185 - General Chemistry B (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)	←	GEOL A105 - General Geology (3.00) Or GEOL A105H - General Geology Honors (3.00)			
GEOL 101L - Introduction to Geology Laboratory (1.00)	←	GEOL A105L - General Geology Laboratory (1.00) Or GEOL A105M - General Geology Laboratory Honors (1.00)			
GEOL 201 - Earth History (3.00)	←	GEOL A185 - Evolution of the Earth (3.00) And GEOL A185L - Evolution of the Earth Laboratory (1.00)			
GEOL 201L - Earth History Supplemental Lab (1.00)	←	No Course Articulated			
MATH 250A - Calculus III (4.00)	←	MATH A280 - Calculus 3 (4.00) Or			
MATH 250B - Intro to Linear Algebra and Diff. Equations (4.00)	←	MATH A280H - Honors Calculus 3 (5.00) MATH A285 - Introduction to Linear Algebra and Differential Equations (4.00) Or			
		MATH A285H - Honors Introduction to Linear Algebra and Differential Equations (5.00)			
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PHYS 225 - Fundamental Phys; Mechanics (3.00)	-	No Course Articulated			
PHYS 225L - Fundamental Physics Lab (1.00)	<u></u>	No Course Articulated			
PHYS 226 - Fund Phys.Elect + Magnetism (3.00)	<u></u>	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)	<u>—</u>	No Course Articulated			

COMPUTER SCIENCE ELECTIVES

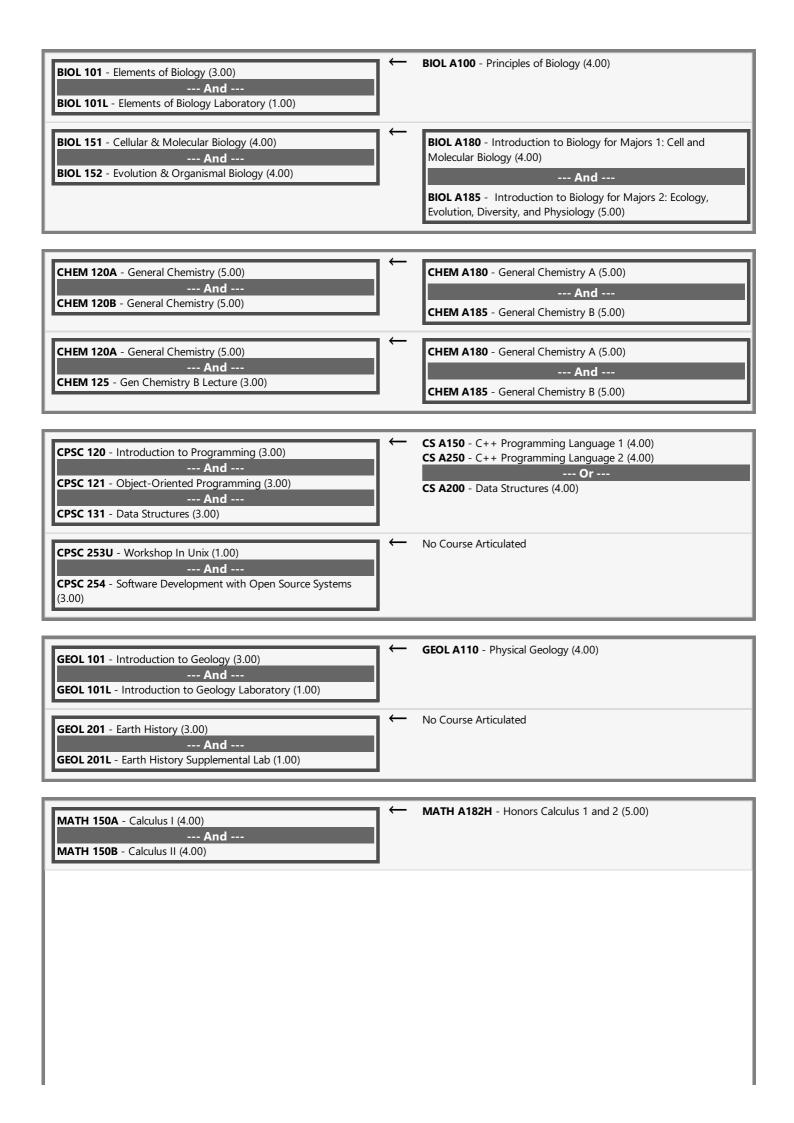
CPSC 254 - Software Development with Open Source Systems (3.00) ← No Course Articulated

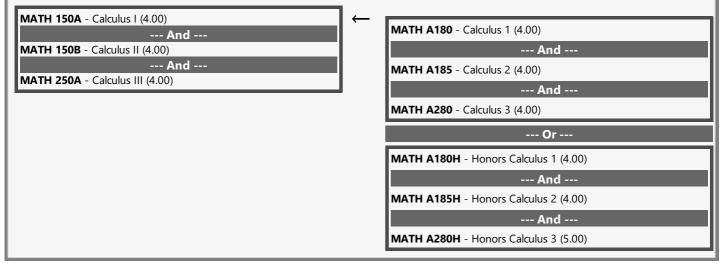
REQUIRED FOR GRADUATION

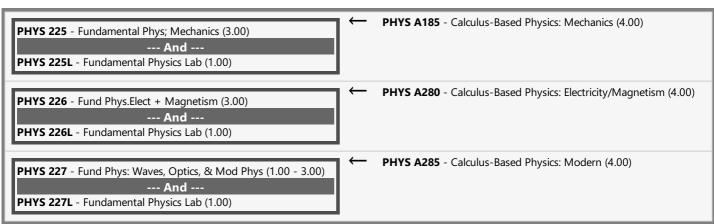
POSC 100 - American Government (3.00)

--- Or --PSCI A180 - American Government (3.00)

--- Or --PSCI A180H - American Government Honors (3.00)







END OF AGREEMENT