Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Hartnell 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

CPSC 120 - Introduction to Programming (3.00)	\leftarrow	CSS 1 - Intro to Computer Science & Programming Fundamentals (4.00)
CPSC 121 - Object-Oriented Programming (3.00)	\leftarrow	CSS 2A - Object Oriented Programming (4.00)
CPSC 131 - Data Structures (3.00)	\leftarrow	CSS 2B - Data Structures and Algorithims (4.00)
CPSC 240 - Computer Organization & Assembly Language (3.00)	\leftarrow	CSS 3 - Computer Architecture and Assembly Language Programming (4.00)
CPSC 253 - Cybersecurity Foundations and Principles (3.00)	\leftarrow	No Course Articulated
-	- And	
-		 m the following
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Select 1 Course CPSC 223C - C Programming (3.00)		m the following
 Select 1 Course		m the following No Course Articulated

MATHEMATICS REQUIREMENTS

Select 18 Semester Unit(s) from the following				
MATH 150A - Calculus I (4.00)	← MAT 3A - Analytic Geometry and Calculus I (4.00)			
MATH 150B - Calculus II (4.00)	← MAT 3B - Analytic Geometry and Calculus II (4.00)			
MATH 170A - Mathematical Structures I (3.00)	← CSS 7 - Discrete Structures (4.00)			
MATH 170B - Mathematical Structure II (3.00)	← No Course Articulated			
MATH 338 - Stat Appl to Natural Sci (4.00)	← No Course Articulated			

	C IIII (E) 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 1 - Fundamental Biological Concepts (5.00)			
BIOL 152 - Evolution & Organismal Biology (4.00)	\leftarrow	BIO 2 - General Zoology (5.00)			
		And			
		BIO 3 - General Botany (5.00)			
CHEM 120A - General Chemistry (5.00)	←	CHM 1A - General Chemistry I (5.00)			
CHEM 120B - General Chemistry (5.00)	\leftarrow	CHM 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)	←	GEL 2 - Introduction to Geology (3.00)			
GEOL 101L - Introduction to Geology Laboratory (1.00)	\leftarrow	No Course Articulated			
GEOL 201 - Earth History (3.00)	\leftarrow	GEL 6 - History of the Earth (4.00)			
GEOL 201L - Earth History Supplemental Lab (1.00)	←	No Course Articulated			
MATH 250A - Calculus III (4.00)	←	MAT 3C - Analytic Geometry and Calculus III (4.00)			
MATH 250B - Intro to Linear Algebra and Diff. Equations (4.00)	\leftarrow	MAT 4 - Linear Algebra (3.00)			
		And			
		MAT 5 - Differential Equations (3.00)			
PHYS 225 - Fundamental Phys; Mechanics (3.00)	←	No Course Articulated			
PHYS 225L - Fundamental Physics Lab (1.00)	\leftarrow	No Course Articulated			
PHYS 226 - Fund Phys.Elect + Magnetism (3.00)	\leftarrow	No Course Articulated			
PHYS 226L - Fundamental Physics Lab (1.00)	\leftarrow	No Course Articulated			
PHYS 227 - Fund Phys: Waves, Optics, & Mod Phys (1.00 - 3.00)	\leftarrow	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

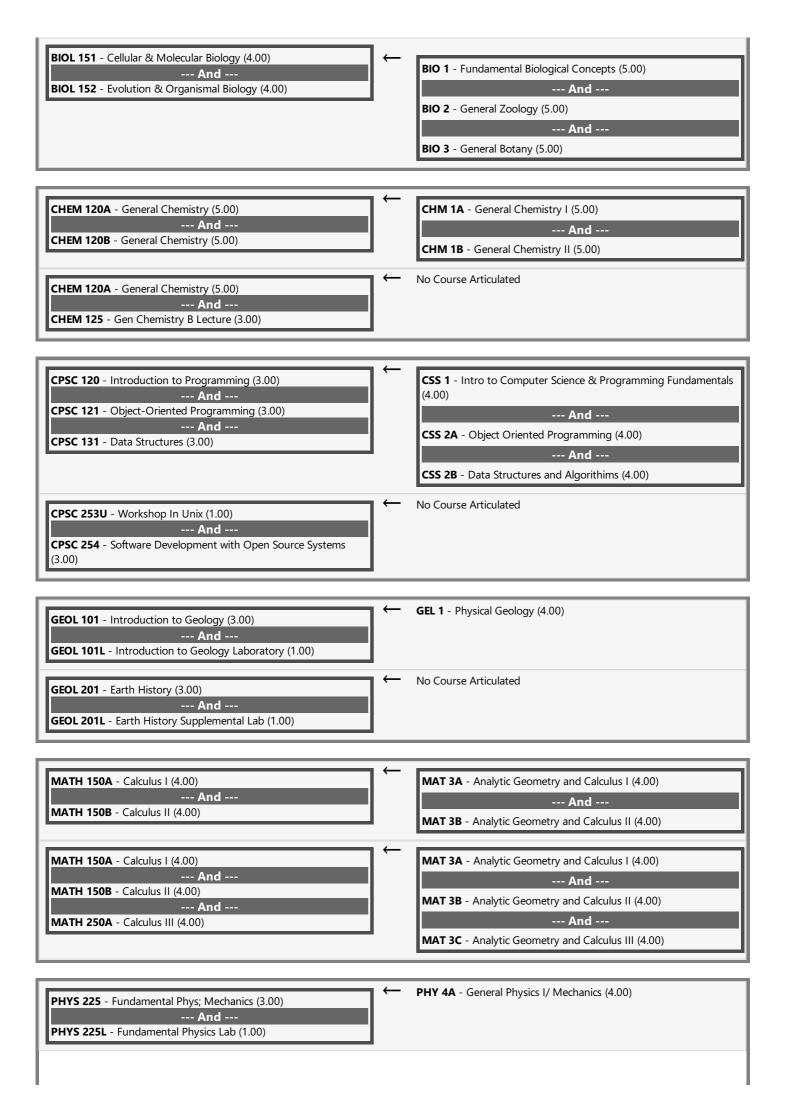
POSC 100 - American Government (3.00) ← POL 1 - American Political Institutions (3.00)

ARTICULATION DETAILS

BIOL 101 - Elements of Biology (3.00) --- And ---

BIOL 101L - Elements of Biology Laboratory (1.00)

BIO 10 - General Biology (4.00)



PHYS 226 - Fund Phys.Elect + Magnetism (3.00) And PHYS 226L - Fundamental Physics Lab (1.00)	←	PHY 4B - General Physics II/ Electricity and Magnetism (4.00)
PHYS 227 - Fund Phys: Waves, Optics, & Mod Phys (1.00 - 3.00) And PHYS 227L - Fundamental Physics Lab (1.00)	←	PHY 4C - General Physics III/ Waves, Heat, Light, Sound and Modern Physics (4.00)

END OF AGREEMENT