Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Fresno City 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)	\leftarrow	No Course Articulated
CPSC 121 - Object-Oriented Programming (3.00)	\leftarrow	CSCI 40 - Programming Concepts and Methodology I (4.00)
CPSC 131 - Data Structures (3.00)	\leftarrow	CSCI 41 - Programming Concepts and Methodology II (4.00)
CPSC 240 - Computer Organization & Assembly Language (3.00)	\leftarrow	No Course Articulated
CPSC 253 - Cybersecurity Foundations and Principles (3.00)	←	No Course Articulated
	- And	
		m the following
Select 1 Course		
Select 1 Course CPSC 223C - C Programming (3.00)		m the following
		m the following No Course Articulated

MATHEMATICS REQUIREMENTS

Select 18 Semester Unit(s) from the following			
MATH 150A - Calculus I (4.00)	← MATH 5A - Mathematical Analysis I (5.00)		
MATH 150B - Calculus II (4.00)	← MATH 5B - Mathematical Analysis II (4.00)		
MATH 170A - Mathematical Structures I (3.00)	← CSCI 26 - Discrete Mathematics for Computer Science (4.00)		
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

BIOL 101 - Elements of Biology (3.00)	\leftarrow	No Course Articulated
BIOL 101L - Elements of Biology Laboratory (1.00)	←	No Course Articulated
BIOL 151 - Cellular & Molecular Biology (4.00)	\leftarrow	BIOL 11A - Biology for Science Majors I (5.00)
		Or
		BIOL 11AH - Honors Biology for Science Majors I (5.00)
BIOL 152 - Evolution & Organismal Biology (4.00)	<u>—</u>	BIOL 11B - Biology for Science Majors II (5.00)
CHEM 120A - General Chemistry (5.00)	←	CHEM 1A - General Chemistry (5.00)
CHEM 120B - General Chemistry (5.00)	←	CHEM 1B - General Chemistry and Qualitative Analysis (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)	\leftarrow	No Course Articulated
GEOL 201 - Earth History (3.00)	\leftarrow	CTOL 2. Ultra ind Code (200)
		GEOL 2 - Historical Geology (3.00) And
		GEOL 2L - Historical Geology Lab (1.00)
		GLOCIE Tristorical decrease (1.00)
GEOL 201L - Earth History Supplemental Lab (1.00)	<u></u>	No Course Articulated
MATH 250A - Calculus III (4.00)	←	MATH 6 - Mathematical Analysis III (4.00)
MATH 250B - Intro to Linear Algebra and Diff. Equations (4.00)	\leftarrow	MATU 7 Introduction to Differential Equations (4.00)
		MATH 7 - Introduction to Differential Equations (4.00) And
		MATH 26 - Elementary Linear Algebra (3.00)
		HIATT 20 Elementary Emedi Augesta (5.00)
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)	\leftarrow	No Course Articulated

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

REQUIRED FOR GRADUATION

POSC 100 - American Government (3.00)

← POLSCI 2 - American Government (3.00)
--- Or ---

POLSCI 2H - Honors American Government (3.00)

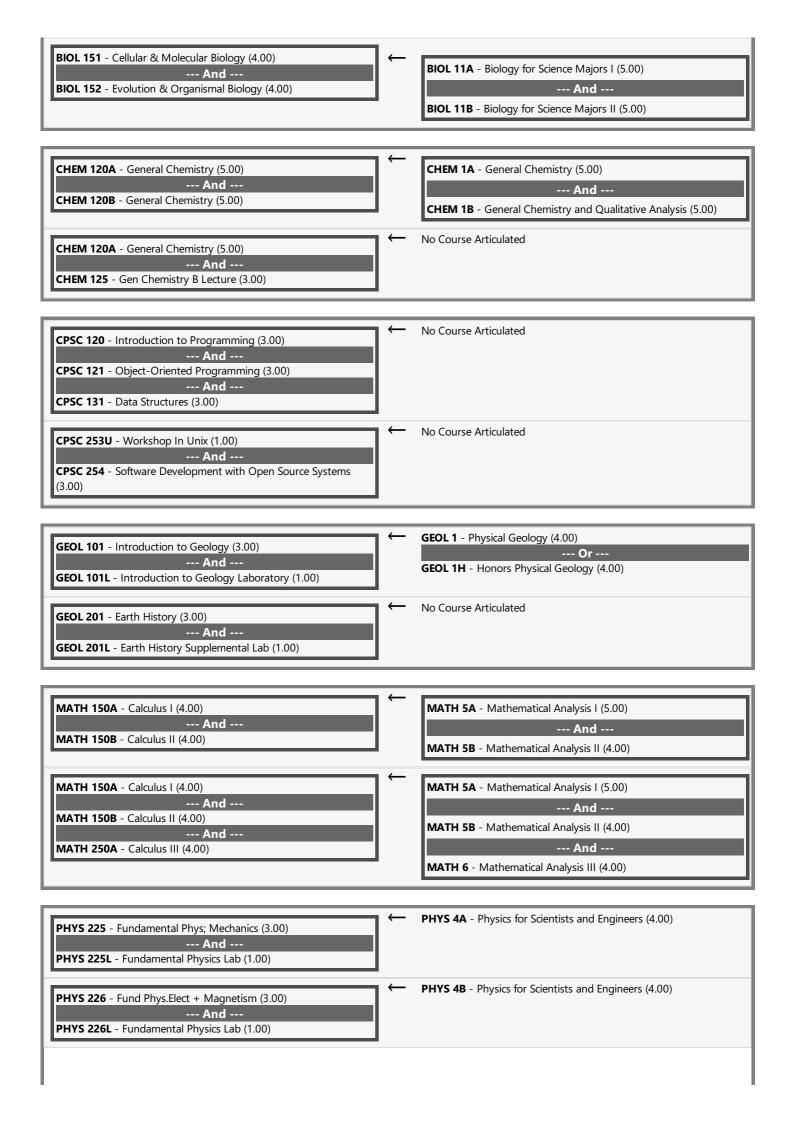
ARTICULATION DETAILS

BIOL 101 - Elements of Biology (3.00)

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BIOL 101L - Elements of Biology Laboratory (1.00)

No Course Articulated



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

PHYS 227L - Fundamental Physics Lab (1.00)

← PHYS 4C - Physics for Scientists and Engineers (4.00)

END OF AGREEMENT