Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: College of the Canyons 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	emic(s	, montractonowing
CPSC 120 - Introduction to Programming (3.00)	\leftarrow	No Course Articulated
CPSC 121 - Object-Oriented Programming (3.00)	←	CMPSCI 111 - Introduction to Computer Algorithms and Programming/JAVA (3.00)
CPSC 131 - Data Structures (3.00)	←	CMPSCI 182 - Data Structures and Program Design (3.00) And
		CMPSCI 182L - Data Structures & Program Design Lab (1.00)
		Or CMPSCI 282 - Advanced Data Structures (3.00)
CPSC 240 - Computer Organization & Assembly Language (3.00)	\leftarrow	CMPSCI 122 - Computer Architecture and Assembly Language (3.00)
CPSC 253 - Cybersecurity Foundations and Principles (3.00)	\leftarrow	No Course Articulated
	- And	
Select 1 Course	(s) fro	m the following
CPSC 223C - C Programming (3.00)	\leftarrow	No Course Articulated
CPSC 223J - Java Programming (3.00)	←	CMPSCI 111 - Introduction to Computer Algorithms and Programming/JAVA (3.00) And
		CMPSCI 111L - Introduction to Algorithms and Programming Lab (1.00)
CPSC 223N - Visual C# Programming (3.00)	\leftarrow	No Course Articulated

MATHEMATICS REQUIREMENTS

Select 18 Semester Unit(s) from the following

MATH 150A - Calculus I (4.00) ← MATH 211 - Calculus I (5.00)

	← MATH 212 - Calculus II (5.00)
MATH 170A - Mathematical Structures I (3.00)	← CMPSCI 256 - Discrete Structures (3.00)
MATH 170B - Mathematical Structure II (3.00)	← No Course Articulated
MATH 338 - Stat Appl to Natural Sci (4 00)	← No Course Articulated

MATH 150B - Calculus II (4.00)

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)	←	BIOSCI 107 - Molecular and Cellular Biology (4.00) Or BIOSCI 107H - Molecular and Cellular Biology - Honors (4.00)		
BIOL 152 - Evolution & Organismal Biology (4.00)	←	BIOSCI 106 - Organismal and Environmental Biology (4.00) Or BIOSCI 106H - Organismal & Environmental Biology - Honors (4.00)		
CHEM 120A - General Chemistry (5.00)	←	CHEM 201 - General Chemistry I (5.00) Or CHEM 201H - General Chemistry I - Honors (5.00)		
CHEM 120B - General Chemistry (5.00)	\leftarrow	CHEM 202 - 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 101L - Introduction to Geology Laboratory (1.00) GEOL 201 - Earth History (3.00) GEOL 201L - Earth History Supplemental Lab (1.00)	← ← ← ← ←	GEOLOGY 100 - Physical Geology (3.00) GEOLOGY 101L - Physical Geology Laboratory (1.00) GEOLOGY 102 - Earth History & The Fossil Record (4.00) No Course Articulated		
MATH 250A - Calculus III (4.00) MATH 250B - Intro to Linear Algebra and Diff. Equations (4.00)	←	MATH 213 - Calculus III (5.00)		
THATTI 2500 Intel to Efficial Algebra and Diff. Equations (4.00)	`	MATH 214 - Linear Algebra (4.00) And MATH 215 - Differential Equations (4.00)		
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)	←	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		

COMPUTER SCIENCE ELECTIVES

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

POSC 100 - American Government (3.00)

POLISC 150 - Introduction to American Government and Politics (3.00)

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POLISC 150H - Introduction to American Government and Politics: Honors (3.00)

ARTICULATION DETAILS

BIOL 101 - Elements of Biology (3.00)
--- And --BIOL 101L - Elements of Biology Laboratory (1.00)

BIOL 151 - Cellular & Molecular Biology (4.00)
--- And --BIOL 152 - Evolution & Organismal Biology (4.00)

BIOSCI 106 - Organismal and Environmental Biology (4.00)
--- Or --
BIOSCI 107H - Molecular and Cellular Biology (4.00)

--- And --BIOSCI 107H - Molecular and Cellular Biology - Honors (4.00)
--- And --BIOSCI 106H - Organismal & Environmental Biology - Honors (4.00)

CHEM 120A - General Chemistry (5.00)
--- And --CHEM 120B - General Chemistry (5.00)

CHEM 201 - General Chemistry I (5.00)

CHEM 202 - General Chemistry I (5.00)

CHEM 201H - General Chemistry I - Honors (5.00)

--- And --CHEM 202 - General Chemistry I (5.00)

CHEM 202 - General Chemistry I (5.00)

--- And --CHEM 120A - General Chemistry (5.00)

--- And --CHEM 125 - Gen Chemistry B Lecture (3.00)

CPSC 120 - Introduction to Programming (3.00)

--- And --
CPSC 121 - Object-Oriented Programming (3.00)

--- And --
CPSC 131 - Data Structures (3.00)

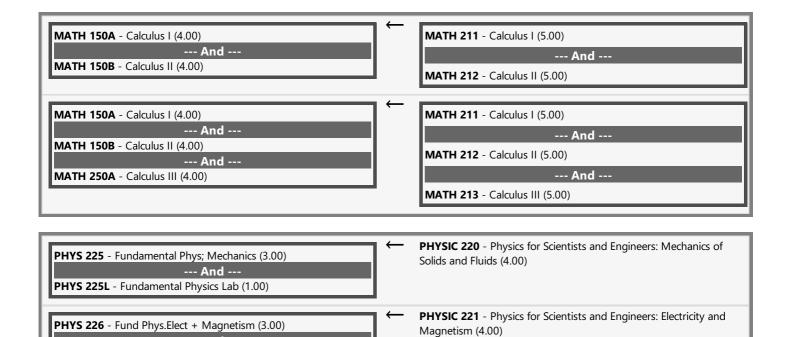
CPSC 253U - Workshop In Unix (1.00)

--- And --
CPSC 254 - Software Development with Open Source Systems (3.00)

GEOL 101 - Introduction to Geology (3.00)
--- And --GEOL 101L - Introduction to Geology Laboratory (1.00)

GEOL 201 - Earth History (3.00)
--- And --GEOL 201L - Earth History Supplemental Lab (1.00)

GEOL 201L - Earth History Supplemental Lab (1.00)



END OF AGREEMENT

Modern Physics (4.00)

PHYSIC 222 - Physics for Sci and Engrs: Waves, Heat, Optics and

--- And ---

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

--- And ---

PHYS 226L - Fundamental Physics Lab (1.00)

PHYS 227L - Fundamental Physics Lab (1.00)