Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Southwestern 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)	← No Course Articulated
CPSC 121 - Object-Oriented Programming (3.00)	← MATH 130 - Introduction to Computer Programming (4.00)
CPSC 131 - Data Structures (3.00)	← MATH 140 - Data Structures and Algorithms (4.00)
CPSC 240 - Computer Organization & Assembly Language (3.00)	← MATH 230 - Computer Organization and Architecture (4.00)
CPSC 253 - Cybersecurity Foundations and Principles (3.00)	← No Course Articulated
	- And
	- And
	- And (s) from the following
Select 1 Course	(s) from the following
CPSC 223C - C Programming (3.00)	(s) from the following ← No Course Articulated ← CIS 153 - Internet Programming using JAVA/J++ (4.00) Or
CPSC 223C - C Programming (3.00)	(s) from the following ← No Course Articulated ← CIS 153 - Internet Programming using JAVA/J++ (4.00)
CPSC 223C - C Programming (3.00)	(s) from the following ← No Course Articulated ← CIS 153 - Internet Programming using JAVA/J++ (4.00) Or

MATHEMATICS REQUIREMENTS

Select 18 Semester Unit(s) from the following					
MATH 150A - Calculus I (4.00)	← MATH 250 - Analytic Geometry and Calculus I (5.00)				
MATH 150B - Calculus II (4.00)	← MATH 251 - Analytic Geometry and Calculus II (4.00)				
MATH 170A - Mathematical Structures I (3.00)	← MATH 265 - 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				

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)	\leftarrow	BIOL 211 - Introduction to Cell and Molecular Biology (4.00)
BIOL 152 - Evolution & Organismal Biology (4.00)	←	No Course Articulated
CHEM 120A - General Chemistry (5.00)	←	CHEM 200 - General Chemistry I (5.00)
CHEM 120B - General Chemistry (5.00)	\leftarrow	CHEM 210 - 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 100 - Principles of Geology (3.00)
GEOL 101L - Introduction to Geology Laboratory (1.00)	\leftarrow	GEOL 101 - General Geology Laboratory (1.00)
GEOL 201 - Earth History (3.00)	←	No Course Articulated
GEOL 201L - Earth History Supplemental Lab (1.00)	←	No Course Articulated
MATH 250A - Calculus III (4.00)	←	MATH 252 - Analytic Geometry and Calculus III (4.00)
MATH 250B - Intro to Linear Algebra and Diff. Equations (4.00)	←	MATH 253 - Introduction to Differential Equations (3.00)
		And
		MATH 254 - Introduction to Linear Algebra (3.00)
PHYS 225 - Fundamental Phys; Mechanics (3.00)	←	PHYS 270 - Principles of Physics I (3.00)
PHYS 225L - Fundamental Physics Lab (1.00)	←	No Course Articulated

PHYS 225 - Fundamental Phys; Mechanics (3.00)	←	PHYS 270 - Principles of Physics I (3.00)
PHYS 225L - Fundamental Physics Lab (1.00)	\leftarrow	No Course Articulated
PHYS 226 - Fund Phys.Elect + Magnetism (3.00)	\leftarrow	PHYS 272 - Principles of Physics II (3.00)
PHYS 226L - Fundamental Physics Lab (1.00)	\leftarrow	PHYS 273 - Principles of Physics Laboratory II (1.00)
PHYS 227 - Fund Phys: Waves, Optics, & Mod Phys (1.00 - 3.00)	\leftarrow	PHYS 274 - Principles of Physics III (3.00)
PHYS 227L - Fundamental Physics Lab (1.00)	←	PHYS 275 - Modern Physics and Principles of Physics Laboratory III (2.00)

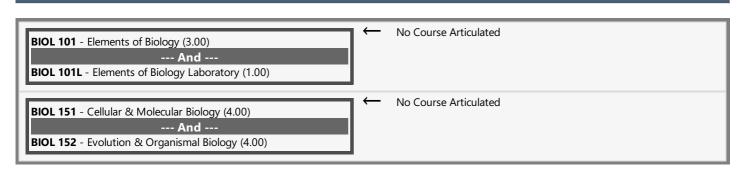
COMPUTER SCIENCE ELECTIVES

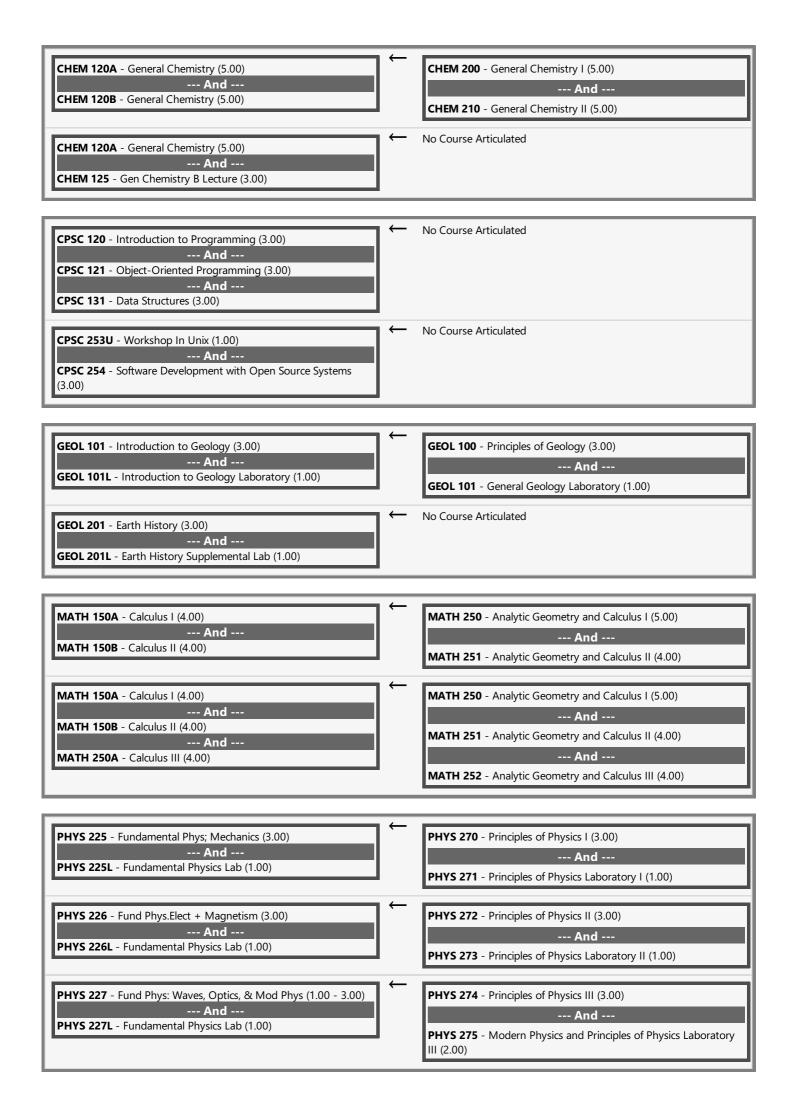
CPSC 254 - Software Development with Open Source Systems (3.00) ← No Course Articulated

REQUIRED FOR GRADUATION

POSC 100 - American Government (3.00) ← PS 102 - Introduction to American Government and Politics (3.00)

ARTICULATION DETAILS





END OF AGREEMENT