Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: MiraCosta 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 13 Semester	Unit(s) from the following		
CPSC 120 - Introduction to Programming (3.00)	← No Course Articulated		
CPSC 121 - Object-Oriented Programming (3.00)	← CS 150 - C++ Programming (3.00)		
CPSC 131 - Data Structures (3.00)	← CS 113 - Basic Data Structures and Algorithms (3.00)		
CPSC 240 - Computer Organization & Assembly Language (3.00)	← No Course Articulated		
CPSC 253 - Cybersecurity Foundations and Principles (3.00)	← Course(s) Denied: CSIT 188;		
And			
Select 1 Course	e(s) from the following		
	e(s) from the following No Course Articulated		
CPSC 223C - C Programming (3.00) CPSC 223J - Java Programming (3.00)			
CPSC 223C - C Programming (3.00)	← No Course Articulated		
CPSC 223C - C Programming (3.00)	 ← No Course Articulated ← CS 111 - Introduction to Computer Science I: Java (3.00) Or 		

MATHEMATICS REQUIREMENTS

Select 18 Semester Unit(s) from the following				
MATH 150A - Calculus I (4.00)	MATH 150 - Calculus and Analytic Geometry I (5.00) Or MATH 150H - Calculus and Analytic Geometry I (Honors) (5.00)			
MATH 150B - Calculus II (4.00)	← MATH 155 - Calculus and Analytic Geometry II (4.00)			
	(- N. C. A.V. I. I.			
MATH 170A - Mathematical Structures I (3.00)	No Course Articulated			
MATH 170B - Mathematical Structure II (3.00)	← No Course Articulated			
MATH 338 - Stat Appl to Natural Sci (4.00)	← No Course Articulated			

ARTICULATION DETAILS

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Select 12 Semester Unit(s) from the following				
BIOL 101 - Elements of Biology (3.00)	←	BIO 111 - Introductory Biology: Preparation for Pre-Health Professions (Lecture) (3.00)		
BIOL 101L - Elements of Biology Laboratory (1.00)	\leftarrow	BIO 111L - Introductory Biology: Preparation for Pre-Health Professions (Lab) (1.00)		
BIOL 151 - Cellular & Molecular Biology (4.00)	←	BIO 204 - Foundations of Biology: Biochemistry, Cell Biology, Genetics and Molecular Biology (4.00) Or		
		BIO 204H - Foundations of Biology: Biochemistry, Cell Biology, Genetics, and Molecular Biology(Honors) (4.00)		
BIOL 152 - Evolution & Organismal Biology (4.00)	←	BIO 202 - Foundations of Biology: Evolution, Biodiversity and Organismal Biology (4.00)		
CHEM 120A - General Chemistry (5.00)	←	CHEM 150 - General Chemistry I: For Science Majors (5.00) Or CHEM 150H - General Chemistry I : For Science Majors (Honors) (5.00)		
CHEM 120B - General Chemistry (5.00)	\leftarrow	CHEM 151 - General Chemistry II: For Science Majors (5.00)		
CHEM 123 - Chemistry for Engineers (3.00)	←	No Course Articulated		
CHEM 125 - Gen Chemistry B Lecture (3.00)	←	No Course Articulated		
CFOL 101 Introduction to Coology (2.00)		CFOL 101 Physical Coology (2.00)		
GEOL 101 - Introduction to Geology (3.00)		GEOL 101 - Physical Geology (3.00) Or		
		GEOL 101H - Physical Geology (Honors) (3.00)		
GEOL 101L - Introduction to Geology Laboratory (1.00)	←	GEOL 101L - Physical Geology Laboratory (1.00)		
GEOL 201 - Earth History (3.00)	\leftarrow	No Course Articulated		
GEOL 201L - Earth History Supplemental Lab (1.00)	←	No Course Articulated		
MATH 250A - Calculus III (4.00)	←	No Course Articulated		
MATH 250B - Intro to Linear Algebra and Diff. Equations (4.00)	←			
		MATH 265 - Differential Equations (4.00)		
		And		
		MATH 270 - Linear Algebra (4.00)		
PHYS 225 - Fundamental Phys; Mechanics (3.00)	←	No Course Articulated		
PHYS 225L - Fundamental Physics Lab (1.00)	←	No Course Articulated		
PHYS 226 - Fund Phys.Elect + Magnetism (3.00)	←	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)	\leftarrow	No Course Articulated		

COMPUTER SCIENCE ELECTIVES

← No Course Articulated

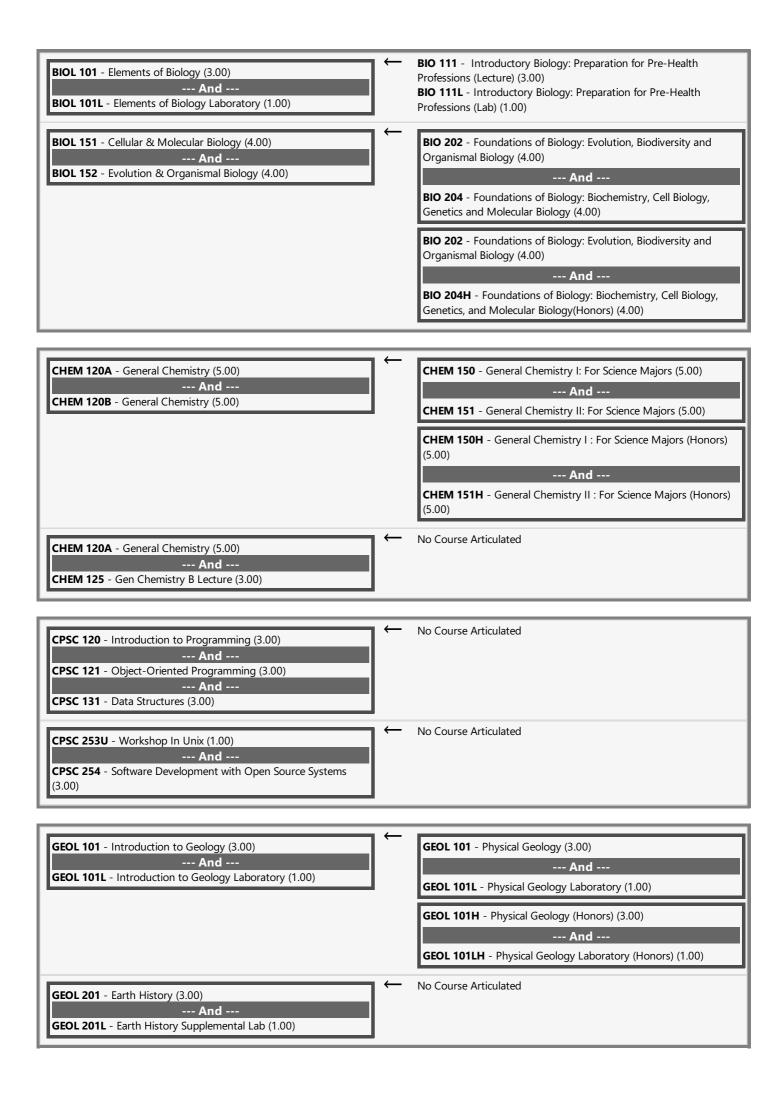
CPSC 254 - Software Development with Open Source Systems (3.00) ← No Course Articulated

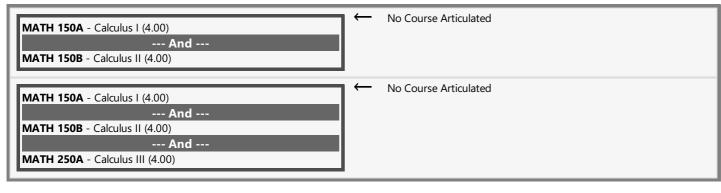
PHYS 227L - Fundamental Physics Lab (1.00)

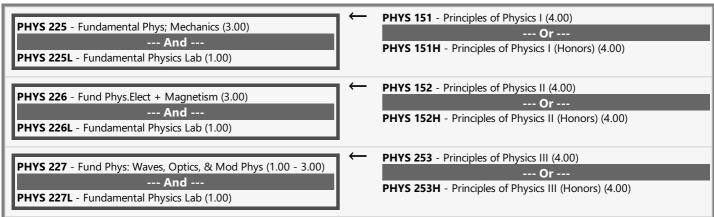
REQUIRED FOR GRADUATION

POSC 100 - American Government (3.00) ← PLSC 102 - American Institutions and History (4.00)

ARTICULATION DETAILS







END OF AGREEMENT