Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

To: California State University, Fullerton 2022-2023 General Catalog, Semester	From: Coastline Community 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.

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LOWER DIVISION CORE

Select 15 Semester Unit(s) from the following

CPSC 120 - Introduction to Programming (3.00)	←	No Course Articulated
CPSC 121 - Object-Oriented Programming (3.00)	←	No Course Articulated
CPSC 131 - Data Structures (3.00)	←	No Course Articulated
CPSC 240 - Computer Organization & Assembly Language (3.00)	←	No Course Articulated
CPSC 253 - Cybersecurity Foundations and Principles (3.00)	←	No Course Articulated

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Select 1 Course(s) from the following

CPSC 223C - C Programming (3.00)	←	No Course Articulated
CPSC 223J - Java Programming (3.00)	←	No Course Articulated
CPSC 223N - Visual C# Programming (3.00)	←	No Course Articulated
CPSC 223P - Python Programming (3.00)	←	No Course Articulated

MATHEMATICS REQUIREMENTS

Select 18 Semester Unit(s) from the following

MATH 150A - Calculus I (4.00)	←	**MATH C180** - Calculus 1 (5.00)
MATH 150B - Calculus II (4.00)	←	**MATH C185** - Calculus 2 (5.00)

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

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)	←	**BIOL C100** - Introduction to Biology (3.00)
BIOL 101L - Elements of Biology Laboratory (1.00)	←	**BIOL C100L** - Introduction to Biology Lab (1.00)
BIOL 151 - Cellular & Molecular Biology (4.00)	←	**BIOL C180** - Cell and Molecular Biology (4.00)
BIOL 152 - Evolution & Organismal Biology (4.00)	←	**BIOL C185** - Diversity of Organisms (5.00)

CHEM 120A - General Chemistry (5.00)	←	**CHEM C180** - General Chemistry A (4.00) **--- And ---** **CHEM C180L** - General Chemistry A Lab (1.00)
CHEM 120B - General Chemistry (5.00)	←	**CHEM C185** - General Chemistry B (4.00) **--- And ---** **CHEM C185L** - General Chemistry B Lab (1.00)
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)	←	**GEOL C105** - General Geology (3.00)
GEOL 101L - Introduction to Geology Laboratory (1.00)	←	**GEOL C105L** - Geology Lab (1.00)
GEOL 201 - Earth History (3.00)	←	**GEOL C185** - Historical Geology (3.00)
GEOL 201L - Earth History Supplemental Lab (1.00)	←	**GEOL C185L** - Historical Geology Lab (1.00)

MATH 250A - Calculus III (4.00)	←	**MATH C280** - Calculus 3 (5.00)
MATH 250B - Intro to Linear Algebra and Diff. Equations (4.00)	←	**MATH C285** - Introduction to Linear Algebra and Differential Equations (5.00)

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)	←	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)	←	**PSCI C180** - American Government (3.00)

ARTICULATION DETAILS

BIOL 101 - Elements of Biology (3.00) **--- And ---** **BIOL 101L** - Elements of Biology Laboratory (1.00)	←	**BIOL C100** - Introduction to Biology (3.00) **--- And ---** **BIOL C100L** - Introduction to Biology Lab (1.00)
BIOL 151 - Cellular & Molecular Biology (4.00) **--- And ---** **BIOL 152** - Evolution & Organismal Biology (4.00)	←	**BIOL C180** - Cell and Molecular Biology (4.00) **--- And ---** **BIOL C185** - Diversity of Organisms (5.00)

CHEM 120A - General Chemistry (5.00) **--- And ---** **CHEM 120B** - General Chemistry (5.00)	←	**CHEM C180** - General Chemistry A (4.00) **--- And ---** **CHEM C180L** - General Chemistry A Lab (1.00) **--- And ---** **CHEM C185** - General Chemistry B (4.00) **--- And ---** **CHEM C185L** - General Chemistry B Lab (1.00)
CHEM 120A - General Chemistry (5.00) **--- And ---** **CHEM 125** - Gen Chemistry B Lecture (3.00)	←	No Course Articulated

CPSC 120 - Introduction to Programming (3.00) **--- And ---** **CPSC 121** - Object-Oriented Programming (3.00) **--- And ---** **CPSC 131** - Data Structures (3.00)	←	No Course Articulated
CPSC 253U - Workshop In Unix (1.00) **--- And ---** **CPSC 254** - Software Development with Open Source Systems (3.00)	←	No Course Articulated

GEOL 101 - Introduction to Geology (3.00) **--- And ---** **GEOL 101L** - Introduction to Geology Laboratory (1.00)	←	**GEOL C105** - General Geology (3.00) **--- And ---** **GEOL C105L** - Geology Lab (1.00)
GEOL 201 - Earth History (3.00) **--- And ---** **GEOL 201L** - Earth History Supplemental Lab (1.00)	←	**GEOL C185** - Historical Geology (3.00) **--- And ---** **GEOL C185L** - Historical Geology Lab (1.00)

MATH 150A - Calculus I (4.00) **--- And ---** **MATH 150B** - Calculus II (4.00)	←	**MATH C180** - Calculus 1 (5.00) **--- And ---** **MATH C185** - Calculus 2 (5.00)
MATH 150A - Calculus I (4.00) **--- And ---** **MATH 150B** - Calculus II (4.00) **--- And ---** **MATH 250A** - Calculus III (4.00)	←	**MATH C180** - Calculus 1 (5.00) **--- And ---** **MATH C185** - Calculus 2 (5.00) **--- And ---** **MATH C280** - Calculus 3 (5.00)

PHYS 225 - Fundamental Phys; Mechanics (3.00) **--- And ---** **PHYS 225L** - Fundamental Physics Lab (1.00)	←	**PHYS C185** - Calculus Based Physics: Mechanics (4.00)
PHYS 226 - Fund Phys.Elect + Magnetism (3.00) **--- And ---** **PHYS 226L** - Fundamental Physics Lab (1.00)	←	**PHYS C280** - Calculus Based Physics: 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)	←	**PHYS C285** - Calculus Based Physics: Modern Physics (4.00)

END OF AGREEMENT