Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

To: California State University, Fullerton 2022-2023 General Catalog, Semester	From: Moorpark 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)	←	No Course Articulated
CPSC 121 - Object-Oriented Programming (3.00)	←	**CS M125** - Programming Concepts and Methodology I (3.00)
CPSC 131 - Data Structures (3.00)	←	**CS M135** - Programming Concepts and Methodology II (3.00)
CPSC 240 - Computer Organization & Assembly Language (3.00)	←	**CS M145** - Computer Architecture and Organization (3.00)
CPSC 253 - Cybersecurity Foundations and Principles (3.00)	←	No Course Articulated

--- And ---

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 M25A** - Calculus with Analytic Geometry I (5.00) **--- Or ---** **MATH M25AH** - Honors: Calculus with Analytic Geometry I (5.00)
MATH 150B - Calculus II (4.00)	←	**MATH M25B** - Calculus with Analytic Geometry II (5.00)

MATH 170A - Mathematical Structures I (3.00)	←	**CS M155** - 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 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)	←	No Course Articulated
BIOL 151 - Cellular & Molecular Biology (4.00)	←	**BIOL M02A** - General Biology I (5.00) **--- Or ---** **BIOL M02AH** - Honors: General Biology I (5.00)
BIOL 152 - Evolution & Organismal Biology (4.00)	←	**BIOL M02B** - General Biology II (5.00)

CHEM 120A - General Chemistry (5.00)	←	**CHEM M01A** - General Chemistry I (5.00) **CHEM M01AH** - Honors: General Chemistry I (5.00)
CHEM 120B - General Chemistry (5.00)	←	**CHEM M01B** - General Chemistry II (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)	←	**GEOL M02** - Physical Geology (3.00) **--- Or ---** **GEOL M02H** - Honors: Physical Geology (3.00)
GEOL 101L - Introduction to Geology Laboratory (1.00)	←	**GEOL M02L** - Physical Geology Lab (1.00)
GEOL 201 - Earth History (3.00)	←	**GEOL M03** - Earth History (3.00) **--- And ---** **GEOL M03L** - Earth History Lab (1.00)
GEOL 201L - Earth History Supplemental Lab (1.00)	←	No Course Articulated

MATH 250A - Calculus III (4.00)	←	**MATH M25C** - Calculus and Analytic Geometry III (5.00)
MATH 250B - Intro to Linear Algebra and Diff. Equations (4.00)	←	**MATH M31** - Introduction to Linear Algebra (3.00) **--- And ---** **MATH M35** - Applied Differential Equations (3.00)

PHYS 225 - Fundamental Phys; Mechanics (3.00)	←	**PHYS M20A** - Mechanics of Solids and Fluids (4.00)
PHYS 225L - Fundamental Physics Lab (1.00)	←	**PHYS M20AL** - Mechanics of Solids and Fluids Laboratory (1.00)
PHYS 226 - Fund Phys.Elect + Magnetism (3.00)	←	**PHYS M20B** - Thermodynamics, Electricity and Magnetism (4.00)
PHYS 226L - Fundamental Physics Lab (1.00)	←	**PHYS M20BL** - Thermodynamics, Electricity and Magnetism Laboratory (1.00)
PHYS 227 - Fund Phys: Waves, Optics, & Mod Phys (1.00 - 3.00)	←	**PHYS M20C** - Wave Motion, Optics and Modern Physics (4.00)
PHYS 227L - Fundamental Physics Lab (1.00)	←	**PHYS M20CL** - Wave Motion, Optics and Modern Physics Laboratory (1.00)

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)	←	**POLS M03** - American Government and Politics (3.00) **--- Or ---** **POLS M03H** - Honors: American Government and Politics (3.00)

ARTICULATION DETAILS

BIOL 101 - Elements of Biology (3.00) **--- And ---** **BIOL 101L** - Elements of Biology Laboratory (1.00)	←	**BIOL M01** - Introduction to Biology (4.00)
BIOL 151 - Cellular & Molecular Biology (4.00) **--- And ---** **BIOL 152** - Evolution & Organismal Biology (4.00)	←	**BIOL M02A** - General Biology I (5.00) **--- And ---** **BIOL M02B** - General Biology II (5.00) **BIOL M02AH** - Honors: General Biology I (5.00) **--- And ---** **BIOL M02B** - General Biology II (5.00)
CHEM 120A - General Chemistry (5.00) **--- And ---** **CHEM 120B** - General Chemistry (5.00)	←	**CHEM M01A** - General Chemistry I (5.00) **--- And ---** **CHEM M01B** - General Chemistry II (5.00) **CHEM M01AH** - Honors: General Chemistry I (5.00) **--- And ---** **CHEM M01B** - General Chemistry II (5.00)
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 M02** - Physical Geology (3.00) **--- And ---** **GEOL M02L** - Physical Geology Lab (1.00)
GEOL 201 - Earth History (3.00) **--- And ---** **GEOL 201L** - Earth History Supplemental Lab (1.00)	←	No Course Articulated
MATH 150A - Calculus I (4.00) **--- And ---** **MATH 150B** - Calculus II (4.00)	←	**MATH M25A** - Calculus with Analytic Geometry I (5.00) **--- And ---** **MATH M25B** - Calculus with Analytic Geometry II (5.00) **MATH M25AH** - Honors: Calculus with Analytic Geometry I (5.00) **--- And ---** **MATH M25B** - Calculus with Analytic Geometry II (5.00)

MATH 150A - Calculus I (4.00) **--- And ---** **MATH 150B** - Calculus II (4.00) **--- And ---** **MATH 250A** - Calculus III (4.00)	←	**MATH M25A** - Calculus with Analytic Geometry I (5.00) **--- And ---** **MATH M25B** - Calculus with Analytic Geometry II (5.00) **--- And ---** **MATH M25C** - Calculus and Analytic Geometry III (5.00)

PHYS 225 - Fundamental Phys; Mechanics (3.00) **--- And ---** **PHYS 225L** - Fundamental Physics Lab (1.00)	←	**PHYS M20A** - Mechanics of Solids and Fluids (4.00) **--- And ---** **PHYS M20AL** - Mechanics of Solids and Fluids Laboratory (1.00)
PHYS 226 - Fund Phys.Elect + Magnetism (3.00) **--- And ---** **PHYS 226L** - Fundamental Physics Lab (1.00)	←	**PHYS M20B** - Thermodynamics, Electricity and Magnetism (4.00) **--- And ---** **PHYS M20BL** - Thermodynamics, Electricity and Magnetism Laboratory (1.00)
PHYS 227 - Fund Phys: Waves, Optics, & Mod Phys (1.00 - 3.00) **--- And ---** **PHYS 227L** - Fundamental Physics Lab (1.00)	←	**PHYS M20C** - Wave Motion, Optics and Modern Physics (4.00) **--- And ---** **PHYS M20CL** - Wave Motion, Optics and Modern Physics Laboratory (1.00)

END OF AGREEMENT