Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

To: California State University, Channel Islands 2022-2023 General Catalog, Semester	From: Cuyamaca College 2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

1. **Special Grade Requirement:** A grade of "C-" or better is required in all prerequisite courses in the Computer Science Major.

LOWER DIVISION REQUIREMENTS

Please refer to additional important General Information section above

COMP 150 - Object-oriented Programming (4.00)	←	**CS 181** - Introduction to C++ Programming (4.00)
		--- Or ---
		CS 182 - Introduction to JAVA Programming (4.00)
COMP 151 - Data Structures and Program Design (4.00)	←	**CS 281** - Intermediate C++ Programming and Fundamental Data Structures (4.00)
		--- Or ---
		CS 282 - Intermediate Java Programming and Fundamental Data Structures (4.00)
COMP 162 - Computer Architecture and Assembly Language (3.00)	←	**CS 165** - Assembly Language and Machine Architecture (4.00)
COMP 232 - Programming Languages (3.00)	←	No Comparable Course
COMP 262 - Computer Organization and Architecture (3.00)	←	No Comparable Course

MATH 150 - Calculus I (4.00)	←	**MATH 180** - Analytic Geometry and Calculus I (5.00)
MATH 151 - Calculus II (4.00)	←	**MATH 280** - Analytic Geometry and Calculus II (4.00)

MATH 240 - Linear Algebra (3.00)	←	**MATH 284** - Linear Algebra (3.00)

SCIENCE

Select 1 Sequence(s) from the following

Please refer to additional important General Information section above

PHYS 200 - General Physics I (4.00)	←	**PHYC 190** - Mechanics and Heat (5.00)
		--- Or ---
		PHYC 201 - Mechanics and Waves (5.00)
PHYS 201 - General Physics II (4.00)	←	**PHYC 200** - Electricity and Magnetism (5.00)
		--- Or ---
		PHYC 202 - Electricity, Magnetism, and Heat (5.00)

--- And ---

CSU GE Area: B2 - Life Science • *Maximum credit, one course*	←	**BIO 130** - General Biology I (3.00) **BIO 112** - Contemporary Issues in Environmental Resources (3.00) **ANTH 130** - Introduction to Biological Anthropology (3.00) **OCEA 112** - Introduction to Oceanography (3.00) **BIO 141** - Human Physiology (3.00) **BIO 133** - Ethnoecology (3.00) **BIO 134** - Ethnobotany (3.00) **BIO 122** - The Secret Life of Plants (4.00) **BIO 140** - Human Anatomy (5.00) **BIO 240** - Principles of Ecology, Evolution and Organismal Biology (5.00) **BIO 152** - Paramedical Microbiology (5.00) **BIO 230** - Principles of Cellular, Molecular and Evolutionary Biology (4.00)

--- Or ---

PHYS 200 - General Physics I (4.00)	←	**PHYC 190** - Mechanics and Heat (5.00)
		--- Or ---
		PHYC 201 - Mechanics and Waves (5.00)
BIOL 200 - Principles of Organismal and Population Biology (4.00)	←	**BIO 240** - Principles of Ecology, Evolution and Organismal Biology (5.00)
BIOL 212 - Neurobiology and Cognitive Science (3.00) Same-As: PSY 212	←	**PSY 140** - Physiological Psychology (3.00)

UPPER DIVISION REQUIREMENTS

MATH 300 - Discrete Mathematics (3.00) • *Content credit only* • *Lower division credit only*	←	**CS 240** - Discrete Structures (3.00) • *Course is an approved substitute for Information Technology majors only* • *Course is an approved substitute for Computer Science majors only*

END OF AGREEMENT