Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

To: California State University, Channel Islands 2022-2023 General Catalog, Semester	From: Pasadena City 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 003A** - Fundamentals of Computer Science II (C++) (4.00) --- Or --- **CS 003B** - Fundamentals of Computer Science (JAVA) (4.00)
COMP 151 - Data Structures and Program Design (4.00)	← **CS 008** - Fundamentals of Computer Science III-Data Structures (4.00)
COMP 162 - Computer Architecture and Assembly Language (3.00)	← **CS 066** - Assembly Language Programming for the Sciences and Mathematics (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 005A** - Single Variable Calculus I (5.00) --- Or --- **MATH 005AH** - Honors Single Variable Calculus I (5.00)
MATH 151 - Calculus II (4.00)	← **MATH 005B** - Single Variable Calculus II (5.00) --- Or --- **MATH 005BH** - Honors Single Variable Calculus II (5.00)

MATH 240 - Linear Algebra (3.00)	← **MATH 010** - Linear Algebra and Applications (4.00) --- Or --- **MATH 010H** - Honors Linear Algebra and Applications (4.00)

SCIENCE

Select 1 Sequence(s) from the following

Please refer to additional important General Information section above

PHYS 200 - General Physics I (4.00)	← **PHYS 001A** - Physics for Scientists and Engineers I: Mechanics (5.00) --- Or --- **PHYS 008A** - Physics for Scientists and Engineers I: Mechanics (5.00)
PHYS 201 - General Physics II (4.00)	← **PHYS 001C** - General Physics (5.00) --- Or --- **PHYS 008B** - Physics for Scientists and Engineers II: Waves, Electricity & Magnetism (5.00)

--- And ---

CSU GE Area: B2 - Life Science
- *Maximum credit, one course*

← **ANTH 001** - Biological Anthropology (3.00)
PSYC 002 - Introduction Biological Psychology (3.00)
BIOL 010C - Genetics (3.00)
ANTH 001H - Honors Biological Anthropology (3.00)
BIOL 038 - Cell and Molecular Biology (4.00)
BIOL 004 - Botany/Plant Diversity and Ecology (4.00)
BIOL 011 - General Biology (4.00)
MICR 002 - Microbiology (4.00)
BIOL 014 - Field Biology (4.00)
PYSO 001 - Human Physiology (4.00)
BIOL 002 - Animal Biology (4.00)
BIOL 010A - Cellular Biology, Genetics and Evolution (5.00)
BIOL 003 - Human Biology (4.00)
BIOL 016 - Marine Biology (4.00)
ANAT 025 - Human Anatomy (4.00)
BIOL 030 - Field Botany (4.00)
BIOL 039 - Modern Human Genetics (4.00)
BIOL 011H - Honors General Biology (4.00)
BIOL 010B - The Diversity of Life on Earth: Structure, Function and Ecology (4.00)

--- Or ---

PHYS 200 - General Physics I (4.00)

← **PHYS 001A** - Physics for Scientists and Engineers I: Mechanics (5.00)
--- Or ---
PHYS 008A - Physics for Scientists and Engineers I: Mechanics (5.00)

BIOL 200 - Principles of Organismal and Population Biology (4.00)

← **BIOL 010B** - The Diversity of Life on Earth: Structure, Function and Ecology (4.00)
--- And ---
BIOL 010C - Genetics (3.00)

BIOL 212 - Neurobiology and Cognitive Science (3.00)
Same-As: PSY 212

← **PSYC 002** - Introduction Biological Psychology (3.00)

UPPER DIVISION REQUIREMENTS

MATH 300 - Discrete Mathematics (3.00)
- *Content credit only*
- *Lower division credit only*

← **CS 045** - Discrete Structures with Computer Science Applications (5.00)
- *Course is an approved substitute for Computer Science majors only*
- *Course is an approved substitute for Information Technology majors only*

END OF AGREEMENT