

# Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Grossmont College  
2022-2023 General Catalog, Semester

## Computer Science, B.S.

### GENERAL INFORMATION

- 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

<b>COMP 150</b> - Object-oriented Programming (4.00)	←	<b>CSIS 250</b> - Introduction to Python Programming (4.00) --- Or --- <b>CSIS 290</b> - Introduction to C# Programming (4.00) --- Or --- <b>CSIS 293</b> - Introduction to Java Programming (4.00) --- Or --- <b>CSIS 296</b> - Introduction to C++ Programming (4.00)
<b>COMP 151</b> - Data Structures and Program Design (4.00)	←	<b>CSIS 291</b> - Intermediate C# Programming (4.00) --- Or --- <b>CSIS 294</b> - Intermediate Java Programming and Fundamental Data Structures (4.00) --- Or --- <b>CSIS 297</b> - Intermediate C++ Programming (4.00)
<b>COMP 162</b> - Computer Architecture and Assembly Language (3.00)	←	<b>CSIS 165</b> - Assembly Language and Machine Architecture (4.00)
<b>COMP 232</b> - Programming Languages (3.00)	←	No Comparable Course
<b>COMP 262</b> - Computer Organization and Architecture (3.00)	←	No Comparable Course

  

<b>MATH 150</b> - Calculus I (4.00)	←	<b>MATH 180</b> - Analytic Geometry and Calculus I (5.00)
<b>MATH 151</b> - Calculus II (4.00)	←	<b>MATH 280</b> - Analytic Geometry and Calculus II (4.00)

  

<b>MATH 240</b> - Linear Algebra (3.00)	←	<b>MATH 284</b> - Linear Algebra (3.00)
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### SCIENCE

Select 1 Sequence(s) from the following

Please refer to additional important General Information section above

<b>PHYS 200</b> - General Physics I (4.00)	←	<b>PHYC 140</b> - Mechanics of Solids (4.00) --- Or --- <b>PHYC 201</b> - Mechanics and Waves (5.00)
<b>PHYS 201</b> - General Physics II (4.00)	←	<b>PHYC 202</b> - Electricity, Magnetism, and Heat (5.00) --- Or --- <b>PHYC 240</b> - Electricity, Magnetism and Heat (4.00)

--- And ---

**CSU GE Area: B2 - Life Science**

- *Maximum credit, one course*



**BIO 118** - Introduction to Human Biology (3.00)  
**BIO 141** - Human Physiology (3.00)  
**BIO 112** - Contemporary Issues in Environmental Resources (3.00)  
**BIO 114** - Heredity, Evolution and Society (3.00)  
**ANTH 130** - Introduction to Biological Anthropology (3.00)  
**BIO 110** - Environmental Biology (4.00)  
**BIO 120** - Principles of Biology (4.00)  
**BIO 105** - Marine Biology (4.00)  
**BIO 144** - Anatomy and Physiology I (4.00)  
**BIO 152** - Paramedical Microbiology (5.00)  
**BIO 145** - Anatomy and Physiology II (4.00)  
**BIO 240** - Principles of Ecology, Evolution, and Organismal Biology (5.00)  
**BIO 140** - Human Anatomy (5.00)  
**BIO 230** - Principles of Cellular, Molecular and Evolutionary Biology (4.00)  
**CHEM 117** - Introductory Biochemistry (3.00)

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**PHYS 200** - General Physics I (4.00)



**PHYC 140** - Mechanics of Solids (4.00)

--- 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*



**CSIS 240** - Discrete Structures (3.00)

- *Course is an approved substitute for Computer Science majors only*
- *Course is an approved substitute for Information Technology majors only*

**END OF AGREEMENT**