

# Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

To: California State University, San Marcos  
2022-2023 General Catalog, Semester

From: Crafton Hills College  
2022-2023 General Catalog, Semester

## Computer Science - CS Option

THE ARTICULATION AGREEMENT BELOW IS SUBJECT TO PERIODIC REVISION. PLEASE CONSULT A COUNSELOR EVERY SEMESTER TO OBTAIN CURRENT INFORMATION ABOUT POSSIBLE CHANGES IN THE AGREEMENT.

### MINIMUM GRADE OF C

All courses counted toward the major, including Preparation for the Major courses, must be completed with a letter grade of C (2.0) or better. Credit/No Credit is not accepted.

### LOWER AND UPPER DIVISION COURSE OPTIONS

The course below, MATH 264, can be used to satisfy a major requirement; an upper division course can also be used to satisfy this requirement.

[\\*Please see the 2022-2023 CSUSM catalog to view the upper division option within the Requirements for Non-Computer Science Supporting Courses section\\*](#)

### PREPARATION FOR THE MAJOR

<b>CS 111</b> - Computer Science I (4.00)	←	<b>CSCI 110</b> - Introduction to Computer Science I (C++) (3.00)
<b>CS 211</b> - Computer Science II (4.00)	←	<b>CSCI 120</b> - Introduction to Computer Science II (C++) (3.00)
<b>CS 231</b> - Assembly Language and Digital Circuits (4.00)	←	<b>CSCI 240</b> - Computer Organization and Assembly Language Programming (3.00)

### NON-COMPUTER SCIENCE SUPPORTING COURSES

<b>MATH 160</b> - Calculus with Applications, I (5.00)	←	<b>MATH 250</b> - Single Variable Calculus I (4.00) --- And --- <b>MATH 251</b> - Single Variable Calculus II (4.00)
<b>MATH 162</b> - Calculus with Applications, II (4.00)	←	<b>MATH 250</b> - Single Variable Calculus I (4.00) --- And --- <b>MATH 251</b> - Single Variable Calculus II (4.00)
<b>MATH 270</b> - Basic Discrete Mathematics (3.00)	←	<b>MATH 200</b> - Discrete Structures (4.00) Same-As: CSCI 200
<b>MATH 242</b> - Introduction to Statistics (3.00)	←	<b>MATH 110</b> - Introduction to Probability and Statistics (4.00)
<b>MATH 264</b> - Introduction to Linear Algebra (3.00)	←	<b>MATH 265</b> - Linear Algebra (4.00)

### Select 8 Unit(s) from the following

<b>BIOL 104</b> - Principles of Biology-Human Emphasis (4.00)	←	No Course Articulated
<b>BIOL 160</b> - Microbiology for Health Sciences (4.00)	←	<b>MICRO 150</b> - Medical Microbiology (5.00)
<b>BIOL 177</b> - Intro to Human Anatomy & Physiology for Kinesiology I (4.00)	←	<b>ANAT 150</b> - Human Anatomy and Physiology I (4.00) --- And --- <b>ANAT 151</b> - Human Anatomy and Physiology II (4.00)

**BIOL 178** - Intro to Human Anatomy & Physiology for Kinesiology II (4.00)



**ANAT 150** - Human Anatomy and Physiology I (4.00)

--- And ---

**ANAT 151** - Human Anatomy and Physiology II (4.00)

**BIOL 210** - Introduction to Cellular and Molecular Biology (4.00)



**BIOL 130** - Cell and Molecular Biology (4.00)

--- Or ---

**BIOL 130H** - Cell and Molecular Biology - Honors (4.00)

**BIOL 211** - Introduction to Organismal and Population Biology (4.00)



**BIOL 131** - Populations and Organisms (4.00)

--- Or ---

**BIOL 131H** - Populations and Organisms - Honors (4.00)

**CHEM 105** - General, Organic, and Biochemistry for Life (4.00)



**CHEM 101** - Introduction to Chemistry (4.00)

--- And ---

**CHEM 102** - Introduction to Organic Chemistry (4.00)

--- And ---

**CHEM 105L** - General, Organic, and Biochemistry for Life Laboratory (1.00)



**CHEM 101** - Introduction to Chemistry (4.00)

--- And ---

**CHEM 102** - Introduction to Organic Chemistry (4.00)

**CHEM 150** - General Chemistry (4.00)



**CHEM 150** - General Chemistry I (5.00)

--- And ---

**CHEM 150L** - General Chemistry Laboratory (1.00)



**CHEM 150** - General Chemistry I (5.00)

**CHEM 160** - General Chemistry II (3.00)



No Course Articulated

--- And ---

**CHEM 175** - General Chemistry Laboratory II (1.00)



No Course Articulated

**CHEM 201** - Organic Chemistry (3.00)



**CHEM 212** - Organic Chemistry I (4.00)

--- And ---

**CHEM 201L** - Organic Chemistry Laboratory (2.00)



**CHEM 212** - Organic Chemistry I (4.00)

**CHEM 202** - Organic Chemistry (3.00)



**CHEM 213** - Organic Chemistry II (4.00)

--- And ---

**CHEM 202L** - Organic Chemistry Laboratory (2.00)



**CHEM 213** - Organic Chemistry II (4.00)

**PHYS 101** - Introduction to Physics I (4.00)



**PHYSIC 100** - Introduction to Physics (4.00)

--- And ---

**PHYSIC 110** - General Physics I (4.00)

**PHYS 102** - Introduction to Physics II (4.00)



**PHYSIC 100** - Introduction to Physics (4.00)

--- And ---

**PHYSIC 110** - General Physics I (4.00)

--- Or ---

**PHYSIC 111** - General Physics II (4.00)

**PHYS 201** - Physics of Mechanics and Sound (4.00)



**PHYSIC 250** - College Physics I (4.00)

--- And ---

**PHYSIC 251** - College Physics II (4.00)

--- And ---

**PHYSIC 252** - College Physics III (4.00)

**PHYS 202** - Physics of Electromagnetism and Optics (4.00)



**PHYSIC 250** - College Physics I (4.00)

--- And ---

**PHYSIC 251** - College Physics II (4.00)

--- And ---

**PHYSIC 252** - College Physics III (4.00)

**PHYS 205** - Physics for the Biological Sciences I (4.00)



No Course Articulated

**PHYS 206** - Physics for the Biological Sciences II (4.00)



No Course Articulated

**END OF AGREEMENT**