

# Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Moreno Valley 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>CIS 5</b> - Programming Concepts and Methodologies I: C++ (4.00)
<b>CS 211</b> - Computer Science II (4.00)	←	<b>CIS 17A</b> - Programming Concepts and Methodologies II: C++ (3.00)
<b>CS 231</b> - Assembly Language and Digital Circuits (4.00)	←	No Course Articulated

### NON-COMPUTER SCIENCE SUPPORTING COURSES

<b>MATH 160</b> - Calculus with Applications, I (5.00)	←	<b>MAT 1A</b> - Calculus I (4.00)
<b>MATH 162</b> - Calculus with Applications, II (4.00)	←	<b>MAT 1B</b> - Calculus II (4.00)
<b>MATH 270</b> - Basic Discrete Mathematics (3.00)	←	No Course Articulated
<b>MATH 242</b> - Introduction to Statistics (3.00)	←	No Course Articulated
<b>MATH 264</b> - Introduction to Linear Algebra (3.00)	←	<b>MAT 3</b> - Linear Algebra (3.00)

### 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>BIO 55</b> - Microbiology (4.00)
<b>BIOL 177</b> - Intro to Human Anatomy & Physiology for Kinesiology I (4.00)	←	<b>BIO 50A</b> - Anatomy and Physiology I (4.00) --- And --- <b>BIO 50B</b> - Anatomy and Physiology II (4.00)
<b>BIOL 178</b> - Intro to Human Anatomy & Physiology for Kinesiology II (4.00)	←	<b>BIO 50A</b> - Anatomy and Physiology I (4.00) --- And --- <b>BIO 50B</b> - Anatomy and Physiology II (4.00)
<b>BIOL 210</b> - Introduction to Cellular and Molecular Biology (4.00)	←	<b>BIO 60</b> - Introduction to Molecular and Cellular Biology (5.00)
<b>BIOL 211</b> - Introduction to Organismal and Population Biology (4.00)	←	<b>BIO 61</b> - Introduction to Organismal and Population Biology (Majors) (5.00)
<b>CHEM 105</b> - General, Organic, and Biochemistry for Life (4.00)	←	<b>CHE 2B</b> - Introductory Chemistry, II (4.00) --- And ---

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



**CHE 2B** - Introductory Chemistry, II (4.00)

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



**CHE 1A** - General Chemistry, I (5.00)

--- And ---

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



**CHE 1A** - General Chemistry, I (5.00)

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



**CHE 1B** - General Chemistry, II (5.00)

--- Or ---

**CHE 1BH** - Honors General Chemistry, II (5.00)

--- And ---

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



**CHE 1B** - General Chemistry, II (5.00)

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



No Course Articulated

--- And ---

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



No Course Articulated

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



No Course Articulated

--- And ---

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



No Course Articulated

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



No Course Articulated

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



No Course Articulated

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



**PHY 4A** - Mechanics (4.00)

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



**PHY 4B** - Electricity and Magnetism (4.00)

--- And ---

**PHY 4C** - Heat, Light and Waves (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**