# **Articulation Agreement by Major**

Effective during the 2022-2023 Academic Year

To: California State University, Long Beach 2022-2023 General Catalog, Semester

From: Golden West College 2022-2023 General Catalog, Semester

# **Computer Science**

## **BACHELOR OF SCIENCE IN COMPUTER SCIENCE**

# **GENERAL INFORMATION 2022-23**

#### **Important Admissions Information for Fall 2023**

**ALL MAJORS ARE IMPACTED AT CSU, LONG BEACH.** As a result, incoming students must complete a series of major specific preparation coursework and meet GPA requirements. Please visit our <u>Major Specific Degree Requirements</u> webpage for more information and to find the correct path and year for your major.

#### Review the following for information related to transfer admissions to CSULB:

- Transfer Admission Eligibility Overview
- <u>Transfer Application Process</u>
- Lower Division Requirements Information for Major Agreements

#### **GENERAL INFORMATION - DEGREE NOTES**

**Degree Progress:** Transfer students must complete the following requirements within one calendar year of declaring the major: A grade of C or better must be achieved in MATH 123 (Calculus II) and PHYS 151 (Mechanics and Heat) within one calendar year after transfer to CSULB (if the equivalent was not taken before transfer). Questions can be directed to the College of Engineering Recruitment and Retention Center at (562) 985-1800 or coe-admit@csulb.edu.

ENGR 101 and 102 are substituted for transfer students who have three units of CSU GE Area E.

**Special Notes**: A grade of "C" or better is required in all required and elective courses.

## LOWER DIVISION CORE REQUIREMENTS, TAKE ALL OF THE FOLLOWING COURSES:

Minimum grade required: C or better Please refer to additional important General Information section above		
<b>CECS 105</b> - Introduction to Computer Engineering and Computer Science (1.00)	$\leftarrow$	No Course Articulated
CECS 174 - Introduction to Programming and Problem Solving (3.00)	<b>←</b>	CS G153 - Java Programming, Introduction (4.00) Or CS G175 - C++ Programming (4.00)
CECS 225 - Digital Logic and Assembly Programming (3.00)	$\leftarrow$	CS G242 - Computer Architecture and Organization (3.00)
CECS 228 - Discrete Structures with Computing Applications (3.00)	$\leftarrow$	CS G262 - Discrete Structures (3.00)
CECS 229 - Discrete Structures with Computing Applications II (3.00)	<b>←</b>	MATH G235 - Applied Linear Algebra (4.00) Or MATH G285 - Introduction to Linear Algebra and Differential Equations (5.00)
CECS 274 - Data Structures (3.00)	<b>←</b>	CS G154 - Data Structures with Java (4.00)  Or CS G189 - Data Structures with C++ (4.00)
CECS 277 - Object Oriented Application Development (3.00)	$\leftarrow$	CS G179 - C++ Programming, Advanced (4.00)
<ul> <li>ENGR 101 - Introduction to Engineering Profession (1.00)</li> <li>Same-As: ENGR 101H</li> <li>Please refer to additional important General Information section above</li> </ul>	<b>←</b>	No Course Articulated
<ul> <li>ENGR 102 - Academic Success Skills (1.00)</li> <li>Same-As: ENGR 102H</li> <li>Please refer to additional important General Information section above</li> </ul>	<b>←</b>	No Course Articulated

MATH 122 - Calculus I (4.00)	← MATH G180 - Calculus 1 (4.00)
	VIAITH G180 - Calculus 1 (4.00)
MATH 123 - Calculus II (4.00)	← MATH G185 - Calculus 2 (4.00)
<ul> <li>Please refer to additional important General Information section above</li> </ul>	

# APPROVED SCIENCES ELECTIVES (MINIMUM OF EIGHT UNITS), TAKE:

# Please refer to additional important General Information section above

PHYS 151 - Mechanics and Heat (4.00)

← PHYS G185 - Calculus Based Physics: Mechanics (4.00)

Please refer to additional important General Information section above

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CHEM 111A - General Chemistry (5.00)

CHEM G180 - General Chemistry A (5.00)

# REMAINING UNITS TO BE CHOSEN FROM THE FOLLOWING:

BIOL 200 - General Biology (4.00)	← BIOL G100 - Introduction to Biology (4.00)
BIOL 205 - Human Biology (4.00)	← BIOL G221 - Introduction to Anatomy and Physiology (4.00)
BIOL 207 - Human Physiology (4.00)	← BIOL G225 - Human Physiology (4.00)

## **END OF AGREEMENT**