

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Norco 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 [Major Specific Degree Requirements](#) 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](#)
- [Transfer Application Process](#)
- [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

CECS 105 - Introduction to Computer Engineering and Computer Science (1.00)	←	No Course Articulated
CECS 174 - Introduction to Programming and Problem Solving (3.00)	←	CIS 5 - Programming Concepts and Methodology I: C++ (4.00) Same-As: CSC 5 --- Or --- CSC 5 - Programming Concepts and Methodology I: C++ (4.00) Same-As: CIS 5
CECS 225 - Digital Logic and Assembly Programming (3.00)	←	CIS 11 - Computer Architecture and Organization: Assembly (3.00) Same-As: CSC 11 --- Or --- CSC 11 - Computer Architecture and Organization: Assembly (3.00) Same-As: CIS 11
CECS 228 - Discrete Structures with Computing Applications (3.00)	←	CIS 7 - Discrete Structures (3.00) Same-As: CSC 7 --- Or --- CSC 7 - Discrete Structures (3.00) Same-As: CIS 7
CECS 229 - Discrete Structures with Computing Applications II (3.00)	←	No Course Articulated
CECS 274 - Data Structures (3.00)	←	CIS 17A - Programming Concepts and Methodology II: C++ (3.00) Same-As: CSC 17A --- Or --- CSC 17A - Programming Concepts and Methodology II: C++ (3.00) Same-As: CIS 17A
CECS 277 - Object Oriented Application Development (3.00)	←	No Course Articulated

ENGR 101 - Introduction to Engineering Profession (1.00)

Same-As: ENGR 101H

- *Please refer to additional important General Information section above*



ENE 10 - Introduction to Engineering (3.00)

ENGR 102 - Academic Success Skills (1.00)

Same-As: ENGR 102H

- *Please refer to additional important General Information section above*



No Course Articulated

MATH 122 - Calculus I (4.00)



MAT 1A - Calculus I (4.00)

MATH 123 - Calculus II (4.00)



MAT 1B - Calculus II (4.00)

- *Please refer to additional important General Information section above*

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

Please refer to additional important General Information section above

PHYS 151 - Mechanics and Heat (4.00)



PHY 4A - Mechanics (4.00)

- *Please refer to additional important General Information section above*

--- Or ---

CHEM 111A - General Chemistry (5.00)



CHE 1A - General Chemistry, I (5.00)

REMAINING UNITS TO BE CHOSEN FROM THE FOLLOWING:

Please refer to additional important General Information section above

BIOL 200 - General Biology (4.00)



BIO 1 - General Biology (4.00)

BIOL 205 - Human Biology (4.00)



BIO 50A - Anatomy and Physiology I (4.00)

BIOL 207 - Human Physiology (4.00)



BIO 50A - Anatomy and Physiology I (4.00)

--- And ---

BIO 50B - Anatomy and Physiology II (4.00)

END OF AGREEMENT