Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

To: California State University, Long Beach 2022-2023 General Catalog, Semester	From: Fresno City 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)	←	**CIT 66** - Beginning C++ Programming (4.00) **--- Or ---** **CSCI 40** - Programming Concepts and Methodology I (4.00)
CECS 225 - Digital Logic and Assembly Programming (3.00)	←	No Course Articulated
CECS 228 - Discrete Structures with Computing Applications (3.00)	←	**CSCI 26** - Discrete Mathematics for Computer Science (4.00)
CECS 229 - Discrete Structures with Computing Applications II (3.00)	←	**MATH 26** - Elementary Linear Algebra (3.00)
CECS 274 - Data Structures (3.00)	←	**CSCI 41** - Programming Concepts and Methodology II (4.00)
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*	←	**ENGR 10** - Introduction to Engineering (2.00)
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)	←	**MATH 5A** - Mathematical Analysis I (5.00)
MATH 123 - Calculus II (4.00) • *Please refer to additional important General Information section above*	←	**MATH 5B** - Mathematical Analysis II (4.00)

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

Please refer to additional important General Information section above

PHYS 151 - Mechanics and Heat (4.00) • *Please refer to additional important General Information section above*	←	**PHYS 4A** - Physics for Scientists and Engineers (4.00)
--- Or ---		
CHEM 111A - General Chemistry (5.00)	←	**CHEM 1A** - General Chemistry (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)	←	No Course Articulated
BIOL 205 - Human Biology (4.00)	←	**BIOL 5** - Human Biology (4.00)
BIOL 207 - Human Physiology (4.00)	←	**BIOL 22** - Human Physiology (5.00) **--- Or ---** **BIOL 21A** - Human Anatomy & Physiology I (4.00) **--- And ---** **BIOL 21B** - Human Anatomy & Physiology II (5.00)

END OF AGREEMENT