Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

To: University of California, Santa Barbara 2022-2023 General Catalog, Quarter From: Fresno City College 2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION FOR ALL MAJORS

All transfer applicants must satisfy University of California admissions eligibility requirements as well as meeting campus admission selection criteria. Completing the UC transfer admission requirements in English and mathematics by the end of the fall term prior to the fall application quarter makes an applicant more competitive for admission to UCSB. All admission requirements must be completed by the end of spring prior to transfer. For more information on UC admissions eligibility requirements and admission to UCSB, please visit the Admissions website: www.admissions.ucsb.edu

This articulation agreement lists course-to-course or sequence-to-sequence substitutions for preparation in the major. **Transfer students are** strongly encouraged to complete as many major preparatory courses as possible prior to enrolling at UCSB. <u>Completion of all major preparatory courses is not an admissions requirement, but some majors require certain courses to be completed prior to transfer with a <u>specified GPA</u>, and completion or near completion of major preparatory courses will help students move more efficiently toward graduation after transfer.</u>

Please note that the course "equivalencies" do not necessarily apply to UCSB general education. For information concerning satisfaction of UCSB general education requirements, please refer to the General Education/Breadth articulation agreement.

Advanced Placement (AP) and **International Baccalaureate (IB)** exams may or may not be used to meet course requirements, depending on the exam. Please refer to the <u>AP Chart</u> and <u>IB Chart</u> in the <u>UCSB General Catalog</u> for information on how we use AP and IB exams.

GENERAL EDUCATION FOR THE COLLEGE OF ENGINEERING

General Education Information: Students should focus on completing major preparation requirements. If time permits, students may also take courses to fulfill either UCSB General Education requirements or IGETC (Intersegmental General Education Transfer Curriculum). Students who will not complete IGETC prior to transfer should refer to the College of Engineering General Education articulation agreement. UCSB's General Education requirements do not need to be completed prior to transfer, but students who choose to follow College of Engineering General Education should complete two to three General Education courses prior to transfer. For more information concerning satisfaction of UCSB General Education requirements, student may also refer to the General Engineering Academic Requirements (GEAR) publication at https://engineering.ucsb.edu/undergraduate/academic-advising/gear-publications

COMPUTER SCIENCE, B.S.

Please visit the department's website to learn more about this major: www.cs.ucsb.edu

ADMISSION SELECTION CRITERIA: Applicants to the Computer Science major who complete the equivalent of all the **REQUIRED** UCSB major preparation courses and as many of the **STRONGLY RECOMMENDED** courses as possible with a major prep GPA of 3.7 or higher are the most competitive for admission.

Applicants without all of the **REQUIRED** courses will be reviewed for admission, but will have less competitive applications.

Courses for the major taken prior to admission must be completed with no grades lower than "C".

REQUIRED base preparation courses

- Math 3A, 3B, 4A, 4B
- Physics 1, 2, 3, 3L
- Computer Science 16, 24, 40

STRONGLY RECOMMENDED advanced preparation courses

- Computer Science 32, 64
- Math 6A

Additional major preparation courses

PSTAT 120A

You may attend more than one California community college to earn credit for the required major preparation courses if the courses are not offered or if your schedule constrains you from completing them at your own campus. However, students are strongly encouraged to complete the physics series at a single school to prevent missing content.

	TOP OF AGREEMENT** ed for admission
MATH 3A - Calculus with Applications, First Course (4.00)	← MATH 5A - Mathematical Analysis I (5.00)
Require	ed for admission
MATH 3B - Calculus with Applications, Second Course (4.00)	← MATH 5B - Mathematical Analysis II (4.00)
Require	ed for admission
MATH 4A - Linear Algebra with Applications (4.00)	← MATH 17 - Differential Equations and Linear Algebra (5.00)
	Or MATH 26 - Elementary Linear Algebra (3.00)
Require	ed for admission
MATH 4B - Differential Equations (4.00)	MATH 7 - Introduction to Differential Equations (4.00)
	Or MATH 17 - Differential Equations and Linear Algebra (5.00)
Requir	ed for admission
An AP exam cannot be use	ed to satisfy this course requirement
PHYS 1 - Basic Physics (4.00)	to satisfy this course requirement PHYS 4A - Physics for Scientists and Engineers (4.00)
	ed for admission
An AP exam cannot be use	ed to satisfy this course requirement
PHYS 2 - Basic Physics (4.00)	d to satisfy this course requirement ←
, , , , , , , , , , , , , , , , , , , ,	PHYS 4A - Physics for Scientists and Engineers (4.00)
	And
	PHYS 4B - Physics for Scientists and Engineers (4.00)
Required for admission An AP exam cannot be used to satisfy this course requirement An IB exam cannot be used to satisfy this course requirement	
PHYS 3 - Basic Physics (3.00)	PHYS 4A - Physics for Scientists and Engineers (4.00)
And PHYS 3L - Physics Laboratory (1.00)	And
, , ,	PHYS 4B - Physics for Scientists and Engineers (4.00)
Require	ed for admission
CMPSC 16 - Problem Solving with Computers I (4.00)	
CIVIPSC 16 - Problem Solving with Computers 1 (4.00)	← CSCI 40 - Programming Concepts and Methodology I (4.00)
	ed for admission
CMPSC 24 - Problem Solving with Computers II (4.00) Require	ed for admission CSCI 41 - Programming Concepts and Methodology II (4.00) ed for admission
CMPSC 24 - Problem Solving with Computers II (4.00)	ed for admission ← CSCI 41 - Programming Concepts and Methodology II (4.00)
CMPSC 24 - Problem Solving with Computers II (4.00) Require CMPSC 40 - Foundations of Computer Science (5.00)	ed for admission CSCI 41 - Programming Concepts and Methodology II (4.00) ed for admission CSCI 26 - Discrete Mathematics for Computer Science (4.00)
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CMPSC 24 - Problem Solving with Computers II (4.00) Require CMPSC 40 - Foundations of Computer Science (5.00) **REFER TO Recommended to b CMPSC 32 - Object Oriented Design and Implementation (4.00) Recommended to b CMPSC 64 - Computer Organization and Logic Design (4.00) Recommended to b MATH 6A - Vector Calculus with Applications, First Course (4.00)	ed for admission CSCI 41 - Programming Concepts and Methodology II (4.00) ed for admission CSCI 26 - Discrete Mathematics for Computer Science (4.00) ADVANCED PREPARATION COURSES TOP OF AGREEMENT** be completed prior to transfer No Course Articulated be completed prior to transfer No Course Articulated