# **Articulation Agreement by Major**

Effective during the 2022-2023 Academic Year

To: University of California, Santa Barbara 2022-2023 General Catalog, Quarter From: Bakersfield 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: <a href="https://www.admissions.ucsb.edu">www.admissions.ucsb.edu</a>

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.

	Require	ed for admission	
MATH 3A - Calculus with Applications, Fi	rst Course (4.00)	← MATH B6A - Analytic Geometry/Calculus I (4.00)	
	Require	d for admission	
MATH 3B - Calculus with Applications, Se		← MATH B6B - Analytic Geometry and Calculus II (4.00)	
	Require	d for admission	
MATH 4A - Linear Algebra with Applicati		← MATH B6E - Elementary Linear Algebra (3.00)	
3			
MATH 4B - Differential Equations (4.00)	Kequire	★ MATH B6D - Ordinary Differential Equations (3.00)	
matti 12 Bindremaia Equations (1.00)		•	
		ed for admission d to satisfy this course requirement	
		d to satisfy this course requirement	
PHYS 1 - Basic Physics (4.00)		← PHYS B4A - Mechanics and Wave Motion (4.00)	
	Require	d for admission	
		d to satisfy this course requirement	
PHVS 2 Pagis Physics (4.00)	An IB exam cannot be use	d to satisfy this course requirement	
PHYS 2 - Basic Physics (4.00)		PHYS B4A - Mechanics and Wave Motion (4.00)	
		And	
		PHYS B4B - Heat, Electricity and Magnetism (4.00)	
		d for admission	
		d to satisfy this course requirement I to satisfy this course requirement	
		PHYS B4B - Heat, Electricity and Magnetism (4.00)	
PHYS 3 - Basic Physics (3.00) And			
PHYS 3L - Physics Laboratory (1.00)			
3 3, 7			
Required for admission			
CMPSC 16 - Problem Solving with Comp	uters I (4.00)	← ENGR B19C - Introduction to Programming Concepts and	
		Methodologies for Engineers (4.00)	
	Require	d for admission	
CMPSC 24 - Problem Solving with Comp	uters II (4.00)	← No Course Articulated	
	Require	d for admission	
CMPSC 40 - Foundations of Computer S	cience (5.00)	← COMP B14 - Discrete Structures (3.00)	
STRON	GLV RECOMMENDED	ADVANCED PREPARATION COURSES	
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		OP OF AGREEMENT**	
CNAPSC 22 Object Oriented Design and		e completed prior to transfer  No Course Articulated	
CMPSC 32 - Object Oriented Design and	implementation (4.00)	No Course Articulated	
Recommended to be completed prior to transfer			
CMPSC 64 - Computer Organization and	Logic Design (4.00)	← No Course Articulated	
Recommended to be completed prior to transfer			
MATH 6A - Vector Calculus with Applications, First Course (4.00) ← MATH B6C - Calculus III (4.00)			
ADDITIONAL MAJOR PREPARATION COURSES			
<b>PSTAT 120A</b> - Probability and Statistics (4.00)		← This Course is Never Articulated	

**END OF AGREEMENT** 

\*\*REFER TO TOP OF AGREEMENT\*\*