# **Articulation Agreement by Major**

Effective during the 2022-2023 Academic Year

To: University of California, San Diego 2022-2023 General Catalog, Quarter

From: Foothill College 2022-2023 General Catalog, Quarter

### **CSE: Computer Science B.S.**

#### **GENERAL INFORMATION**

DATED MATERIAL, SUBJECT TO CHANGE. PLEASE CONSULT CURRENT UCSD GENERAL CATALOG FOR ANY ADDITIONAL INFORMATION.

Effective Fall 2018, major preparation will be required for this major. For details, visit: <a href="http://admissions.ucsd.edu/MajorPrep">http://admissions.ucsd.edu/MajorPrep</a>

Effective Fall 2015, the B.S. and B.A. in Computer Science, the B.S. in Computer Engineering, and the B.S. in Computer Science with a specialization in Bioinformatics are impacted for transfer students. Visit <u>cse.ucsd.edu</u> for full information.

**General advice:** Transfer students are advised to complete the following courses for their major before enrolling at UC San Diego. Preparing well for the major helps students move efficiently toward graduation.

- Calculus I-for Science and Engineering (Math. 20A)
- Calculus II-for Science and Engineering (Math. 20B)
- Calculus and Analytic Geometry (Math. 20C)
- Linear Algebra (Math. 18)
- Two courses chosen from: PHYS 2A or PHYS 4A, PHYS 2B or PHYS 4B, CHEM 6A or CHEM 6AH, CHEM 6B or CHEM 6BH, BILD 1, BILD 2, BILD 3
- Highest level of introductory computer programming language course offered at the community college. For example, CSE 3, CSE 6R, and 8A may be used to fulfill the lower-division elective requirement; CSE 8B or 11 fulfill other lower-division requirements.

**Course equivalency:** For course equivalencies not listed below, visit the CSE Student Affairs Office, CSE Building (EBU3B, Room 1200) first floor, or email CSEStudent@eng.ucsd.edu.

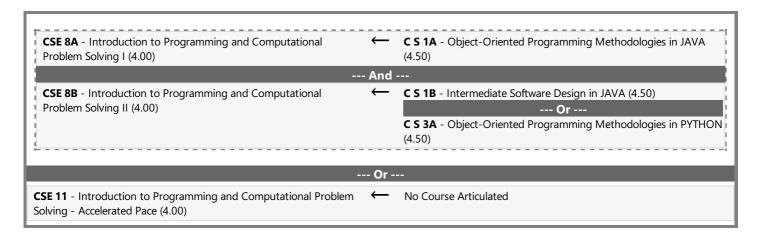
For information not found here, please visit the CSE Undergraduate Program at: <a href="https://cse.ucsd.edu/undergraduate">https://cse.ucsd.edu/undergraduate</a>

UC San Diego Advanced Placement (AP) and International Baccalaureate (IB) credit policies are detailed in the links below:

Advanced Placement (AP) <a href="https://www.ucsd.edu/catalog/pdf/APC-chart.pdf">https://www.ucsd.edu/catalog/pdf/APC-chart.pdf</a>

International Baccalaureate (IB) https://catalog.ucsd.edu/files/international-baccalaureate-credits-chart.pdf

## **LOWER DIVISION MAJOR REQUIREMENTS**



CSE 12 - Basic Data Structures and Object-Oriented Design (4.00)	<b>←</b>	C S 2C - Advanced Data Structures & Algorithims in C++ (4.50)  Or C S 1C - Advanced Data Structures & Algorithims in JAVA (4.50)
CSE 15L - Software Tools and Techniques Laboratory (2.00)	$\leftarrow$	No Course Articulated
<b>CSE 20</b> - Discrete Mathematics (4.00) Same-As: MATH 15A	$\leftarrow$	MATH 22 - Discrete Mathematics (5.00) Same-As: C S 18
CSE 21 - Mathematics for Algorithms and Systems (4.00)	$\leftarrow$	No Course Articulated
CSE 30 - Computer Organization and Systems Programming (4.00)	$\leftarrow$	C S 10 - Computer Architecture & Organization (4.50)

MATH 18 - Linear Algebra (4.00)	<b>←</b>	MATH 2B - Linear Algebra (5.00)
MATH 20A - Calculus for Science and Engineering (4.00)	<b>←</b>	MATH 1A - Calculus (5.00) Or MATH 1AH - Honors Calculus I (5.00)
MATH 20B - Calculus for Science and Engineering (4.00)	$\leftarrow$	MATH 1B - Calculus (5.00)
<b>MATH 20C</b> - Calculus and Analytic Geometry for Science and Engineering (4.00)	<b>←</b>	MATH 1C - Calculus (5.00) And MATH 1D - Calculus (5.00)

Select 2 Course(s) from the following			
<b>BILD 1</b> - The Cell (4.00)	BIOL 1A - Principles of Cell Biology (6.00)  And  BIOL 1B - Form & Function in Plants & Animals (6.00)  And  BIOL 1C - Evolution, Systematics & Ecology (6.00)		
BILD 2 - Multicellular Life (4.00)	BIOL 1A - Principles of Cell Biology (6.00)  And  BIOL 1B - Form & Function in Plants & Animals (6.00)  And  BIOL 1C - Evolution, Systematics & Ecology (6.00)		
BILD 3 - Organismic and Evolutionary Biology (4.00)	BIOL 1A - Principles of Cell Biology (6.00)  And  BIOL 1B - Form & Function in Plants & Animals (6.00)  And  BIOL 1C - Evolution, Systematics & Ecology (6.00)		
CHEM 6A - General Chemistry I (4.00)	← CHEM 1A - General Chemistry (5.00)		
CHEM 6B - General Chemistry II (4.00)	← CHEM 1B - General Chemistry (5.00)		
PHYS 2A - Physics - Mechanics (4.00)	← PHYS 4A - General Physics (Calculus) (6.00)		
PHYS 2B - Physics - Electricity and Magnetism (4.00)	PHYS 4B - General Physics (Calculus) (6.00)		

## **END OF AGREEMENT**