# **Articulation Agreement by Major**

Effective during the 2022-2023 Academic Year

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

From: San Diego Miramar College 2022-2023 General Catalog, Semester

### **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 8A - Introduction to Programming and Computational Problem Solving I (4.00)	← CISC 190 - Java Programming (4.00)			
And				
CSE 8B - Introduction to Programming and Computational Problem Solving II (4.00)	← CISC 191 - Intermediate Java Programming (4.00)			
Or				
<b>CSE 11</b> - Introduction to Programming and Computational Problem Solving - Accelerated Pace (4.00)	← No Course Articulated			

**CSE 12** - Basic Data Structures and Object-Oriented Design (4.00)

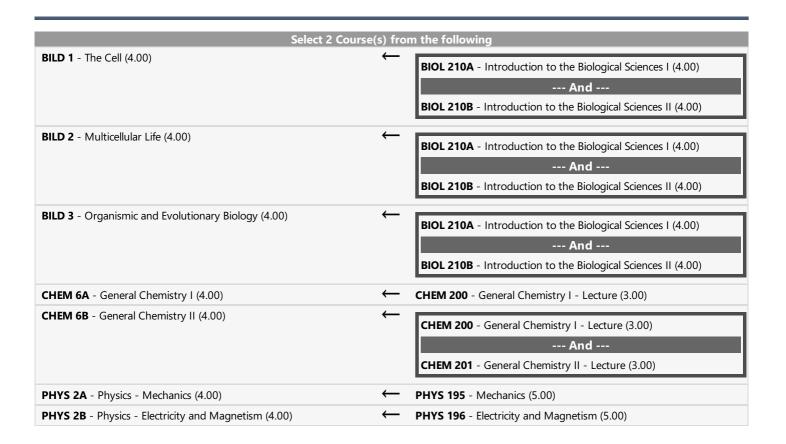
CISC 187 - Data Structures in C++ (4.00)

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**CISC 191** - Intermediate Java Programming (4.00)

CSE 15L - Software Tools and Techniques Laboratory (2.00)	<b>←</b>	No Course Articulated
CSE 20 - Discrete Mathematics (4.00) Same-As: MATH 15A	$\leftarrow$	MATH 245 - Discrete Mathematics (3.00)
CSE 21 - Mathematics for Algorithms and Systems (4.00)	$\leftarrow$	No Course Articulated
CSE 30 - Computer Organization and Systems Programming (4.00)	<b>←</b>	CISC 211 - Computer Organization and Assembly Language (4.00) And CISC 192 - C/C++ Programming (4.00)

MATH 18 - Linear Algebra (4.00)	<b>←</b>	MATH 254 - Introduction to Linear Algebra (3.00)
MATH 20A - Calculus for Science and Engineering (4.00)	$\leftarrow$	MATH 150 - Calculus with Analytic Geometry I (5.00)
MATH 20B - Calculus for Science and Engineering (4.00)	$\leftarrow$	MATH 151 - Calculus with Analytic Geometry II (4.00)
MATH 20C - Calculus and Analytic Geometry for Science and Engineering (4.00)	<b>←</b>	MATH 252 - Calculus with Analytic Geometry III (4.00)



## **END OF AGREEMENT**