

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Cerritos 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: <http://admissions.ucsd.edu/MajorPrep>

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 cse.ucsd.edu 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: <https://cse.ucsd.edu/undergraduate>

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

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

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)

← No Course Articulated

--- And ---

CSE 8B - Introduction to Programming and Computational Problem Solving II (4.00)

← **CIS 183** - Java Programming (3.50)

--- Or ---

CSE 11 - 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)

← **CIS 292** - Data Structures (3.00)

CSE 15L - Software Tools and Techniques Laboratory (2.00)

← No Course Articulated

CSE 20 - Discrete Mathematics (4.00)
Same-As: MATH 15A

← **CIS 185** - Discrete Structures (3.00)

CSE 21 - Mathematics for Algorithms and Systems (4.00)	←	No Course Articulated
CSE 30 - Computer Organization and Systems Programming (4.00)	←	<div> CIS 231 - Computer Organization and Assembly Language Programming (3.50) </div> <div> --- And --- </div> <div> CIS 180 - Programming in C/C++ (3.50) </div> <div> --- Or --- </div> <div> CIS 231 - Computer Organization and Assembly Language Programming (3.50) </div> <div> --- And --- </div> <div> CIS 280X - Object-Oriented Programming in C++ (3.50) </div>

MATH 18 - Linear Algebra (4.00)	←	MATH 250 - Linear Algebra and Differential Equations (5.00)
MATH 20A - Calculus for Science and Engineering (4.00)	←	MATH 170 - Analytic Geometry and Calculus I (4.00)
MATH 20B - Calculus for Science and Engineering (4.00)	←	MATH 190 - Analytic Geometry and Calculus II (4.00)
MATH 20C - Calculus and Analytic Geometry for Science and Engineering (4.00)	←	MATH 225 - Calculus III (5.00)

Select 2 Course(s) from the following		
BILD 1 - The Cell (4.00)	←	<div> BIOL 200 - Principles of Biology (5.00) </div> <div> --- And --- </div> <div> BIOL 201 - Principles of Biology (5.00) </div>
BILD 2 - Multicellular Life (4.00)	←	<div> BIOL 200 - Principles of Biology (5.00) </div> <div> --- And --- </div> <div> BIOL 201 - Principles of Biology (5.00) </div>
BILD 3 - Organismic and Evolutionary Biology (4.00)	←	<div> BIOL 200 - Principles of Biology (5.00) </div> <div> --- And --- </div> <div> BIOL 201 - Principles of Biology (5.00) </div>
CHEM 6A - General Chemistry I (4.00)	←	CHEM 111 - General Chemistry (5.00)
CHEM 6B - General Chemistry II (4.00)	←	<div> CHEM 111 - General Chemistry (5.00) </div> <div> --- And --- </div> <div> CHEM 112 - General Chemistry (5.00) </div>
PHYS 2A - Physics - Mechanics (4.00)	←	PHYS 201 - Engineering Physics (4.00)
PHYS 2B - Physics - Electricity and Magnetism (4.00)	←	PHYS 202 - Engineering Physics (4.00)

END OF AGREEMENT