

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Santa Ana 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)

← No Course Articulated

--- Or ---

CSE 11 - Introduction to Programming and Computational Problem Solving - Accelerated Pace (4.00)

← **CMPR 112** - JAVA Programming (3.00)

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

← No Course Articulated

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

← No Course Articulated

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

← **CMPR 140** - Discrete Structures for Computer Science (3.00)

CSE 21 - Mathematics for Algorithms and Systems (4.00)	←	No Course Articulated
CSE 30 - Computer Organization and Systems Programming (4.00)	←	<div> CMPR 129 - Introduction to Computer Organization (4.00) </div> <div> --- And --- </div> <div> CMPR 131 - Data Structures Concepts (3.00) </div>

MATH 18 - Linear Algebra (4.00)	←	MATH 287 - Introduction to Linear Algebra and Differential Equations (5.00)
MATH 20A - Calculus for Science and Engineering (4.00)	←	MATH 180 - Single Variable Calculus I (4.00)
MATH 20B - Calculus for Science and Engineering (4.00)	←	MATH 185 - Single Variable Calculus II (4.00)
MATH 20C - Calculus and Analytic Geometry for Science and Engineering (4.00)	←	MATH 280 - Intermediate Calculus (4.00)

Select 2 Course(s) from the following		
BILD 1 - The Cell (4.00)	←	<div> BIOL 211 - Cellular and Molecular Biology (5.00) </div> <div> --- And --- </div> <div> BIOL 212 - Animal Diversity and Ecology (5.00) </div> <div> --- And --- </div> <div> BIOL 214 - Plant Diversity and Evolution (5.00) </div>
BILD 2 - Multicellular Life (4.00)	←	<div> BIOL 211 - Cellular and Molecular Biology (5.00) </div> <div> --- And --- </div> <div> BIOL 212 - Animal Diversity and Ecology (5.00) </div> <div> --- And --- </div> <div> BIOL 214 - Plant Diversity and Evolution (5.00) </div>
BILD 3 - Organismic and Evolutionary Biology (4.00)	←	<div> BIOL 211 - Cellular and Molecular Biology (5.00) </div> <div> --- And --- </div> <div> BIOL 212 - Animal Diversity and Ecology (5.00) </div> <div> --- And --- </div> <div> BIOL 214 - Plant Diversity and Evolution (5.00) </div>
CHEM 6A - General Chemistry I (4.00)	←	CHEM 219 - General Chemistry (5.00)
CHEM 6B - General Chemistry II (4.00)	←	<div> CHEM 219 - General Chemistry (5.00) </div> <div> --- And --- </div> <div> CHEM 229 - General Chemistry and Qualitative Analysis (5.00) </div>
PHYS 2A - Physics - Mechanics (4.00)	←	PHYS 217 - Engineering Physics I (4.00)
PHYS 2B - Physics - Electricity and Magnetism (4.00)	←	PHYS 227 - Engineering Physics II (4.00)

END OF AGREEMENT