

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: City College of San Francisco
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)

← **CS 111B** - Programming Fundamentals: Java (4.00)

--- Or ---

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

← **CS 111B** - Programming Fundamentals: Java (4.00)

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

← **CS 110C** - Data Structures and Algorithms: C++ (4.00)

--- Or ---

CS 111C - Data Structures and Algorithms: Java (4.00)

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

← No Course Articulated

CSE 20 - Discrete Mathematics (4.00) Same-As: MATH 15A	← MATH 115 - Discrete Mathematics (3.00)
CSE 21 - Mathematics for Algorithms and Systems (4.00)	← No Course Articulated
CSE 30 - Computer Organization and Systems Programming (4.00)	← CS 270 - Computer Architecture with Assembly Language (4.00)

MATH 18 - Linear Algebra (4.00)	← MATH 120 - Linear Algebra (3.00) --- Or --- MATH 130 - Linear Algebra and Differential Equations (5.00)
MATH 20A - Calculus for Science and Engineering (4.00)	← MATH 110A - Calculus I (5.00)
MATH 20B - Calculus for Science and Engineering (4.00)	← MATH 110B - Calculus II (5.00)
MATH 20C - Calculus and Analytic Geometry for Science and Engineering (4.00)	← MATH 110C - Calculus III (5.00)

Select 2 Course(s) from the following	
BILD 1 - The Cell (4.00)	← BIO 100A - General Biology (5.00) --- And --- BIO 100B - General Biology (5.00)
BILD 2 - Multicellular Life (4.00)	← BIO 100A - General Biology (5.00) --- And --- BIO 100B - General Biology (5.00)
BILD 3 - Organismic and Evolutionary Biology (4.00)	← BIO 100A - General Biology (5.00) --- And --- BIO 100B - General Biology (5.00)
CHEM 6A - General Chemistry I (4.00)	← CHEM 101A - General College Chemistry (6.00) --- Or --- CHEM 103A - General Chemistry for Engineering (5.00)
CHEM 6B - General Chemistry II (4.00)	← CHEM 101A - General College Chemistry (6.00) --- And --- CHEM 101B - General College Chemistry (5.00)
PHYS 2A - Physics - Mechanics (4.00)	← PHYC 4A - Classical Mechanics for Scientists and Engineers (3.00)
PHYS 2B - Physics - Electricity and Magnetism (4.00)	← PHYC 4B - Electromagnetism for Scientists and Engineers (3.00)

END OF AGREEMENT