

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: De Anza 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: <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)

← **CIS 22A** - Beginning Programming Methodologies in C++ (4.50)

--- Or ---

CIS 36A - Introduction to Computer Programming Using Java (4.50)

--- Or ---

CIS 40 - Introduction to Programming in Python (4.50)

--- And ---

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

← **CIS 36B** - Intermediate Problem Solving in Java (4.50)

--- Or ---

CSE 11 - Introduction to Programming and Computational Problem Solving - Accelerated Pace (4.00)	←	CIS 35A - Java Programming (4.50) <div>--- Or ---</div> CIS 36A - Introduction to Computer Programming Using Java (4.50) <div>--- And ---</div> CIS 36B - Intermediate Problem Solving in Java (4.50)
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CSE 12 - Basic Data Structures and Object-Oriented Design (4.00)	←	CIS 22C - Data Abstraction and Structures (4.50) <div>--- And ---</div> CIS 28 - Object Oriented Analysis and Design (4.50) <div>--- Or ---</div> CIS 22CH - Data Abstraction and Structures - HONORS (4.50) <div>--- And ---</div> CIS 28 - Object Oriented Analysis and Design (4.50)
CSE 15L - Software Tools and Techniques Laboratory (2.00)	←	No Course Articulated
CSE 20 - Discrete Mathematics (4.00) Same-As: MATH 15A	←	MATH 22 - Discrete Mathematics (5.00) <div>--- Or ---</div> MATH 22H - Discrete Mathematics - HONORS (5.00)
CSE 21 - Mathematics for Algorithms and Systems (4.00)	←	No Course Articulated
CSE 30 - Computer Organization and Systems Programming (4.00)	←	CIS 21JA - Introduction to x86 Processor Assembly Language and Computer Architecture (4.50) <div>--- And ---</div> CIS 21JB - Advanced x86 Processor Assembly Programming (4.50) <div>--- And ---</div> CIS 26B - Advanced C Programming (4.50) <div>--- Or ---</div> CIS 21JA - Introduction to x86 Processor Assembly Language and Computer Architecture (4.50) <div>--- And ---</div> CIS 21JB - Advanced x86 Processor Assembly Programming (4.50) <div>--- And ---</div> CIS 26BH - Advanced C Programming - HONORS (4.50)

MATH 18 - Linear Algebra (4.00)	←	MATH 2B - Linear Algebra (5.00) <div>--- Or ---</div> MATH 2BH - Linear Algebra - HONORS (5.00)
MATH 20A - Calculus for Science and Engineering (4.00)	←	MATH 1A - Calculus (5.00) <div>--- Or ---</div> MATH 1AH - Calculus - HONORS (5.00)
MATH 20B - Calculus for Science and Engineering (4.00)	←	MATH 1B - Calculus (5.00) <div>--- Or ---</div> MATH 1BH - Calculus - HONORS (5.00)
MATH 20C - Calculus and Analytic Geometry for Science and Engineering (4.00)	←	MATH 1C - Calculus (5.00) <div>--- And ---</div> MATH 1D - Calculus (5.00) <div>--- Or ---</div> MATH 1CH - Calculus - HONORS (5.00) <div>--- And ---</div> MATH 1DH - Calculus - HONORS (5.00)

Select 2 Course(s) from the following

BILD 1 - The Cell (4.00)



BIOL 6A - Form and Function in the Biological World (6.00)

--- And ---

BIOL 6B - Cell and Molecular Biology (6.00)

--- And ---

BIOL 6C - Ecology and Evolution (6.00)

--- Or ---

BIOL 6AH - Form and Function in the Biological World - HONORS (6.00)

--- And ---

BIOL 6B - Cell and Molecular Biology (6.00)

--- And ---

BIOL 6CH - Ecology and Evolution - HONORS (6.00)

BILD 2 - Multicellular Life (4.00)



BIOL 6A - Form and Function in the Biological World (6.00)

--- And ---

BIOL 6B - Cell and Molecular Biology (6.00)

--- And ---

BIOL 6C - Ecology and Evolution (6.00)

--- Or ---

BIOL 6AH - Form and Function in the Biological World - HONORS (6.00)

--- And ---

BIOL 6B - Cell and Molecular Biology (6.00)

--- And ---

BIOL 6CH - Ecology and Evolution - HONORS (6.00)

BILD 3 - Organismic and Evolutionary Biology (4.00)



BIOL 6A - Form and Function in the Biological World (6.00)

--- And ---

BIOL 6B - Cell and Molecular Biology (6.00)

--- And ---

BIOL 6C - Ecology and Evolution (6.00)

--- Or ---

BIOL 6AH - Form and Function in the Biological World - HONORS (6.00)

--- And ---

BIOL 6B - Cell and Molecular Biology (6.00)

--- And ---

BIOL 6CH - Ecology and Evolution - HONORS (6.00)

CHEM 6A - General Chemistry I (4.00)



CHEM 1A - General Chemistry (5.00)

--- Or ---

CHEM 1AH - General Chemistry - HONORS (5.00)

CHEM 6B - General Chemistry II (4.00)



CHEM 1B - General Chemistry (5.00)

--- Or ---

CHEM 1BH - General Chemistry - HONORS (5.00)

PHYS 2A - Physics - Mechanics (4.00)



PHYS 4A - Physics for Scientists and Engineers: Mechanics (6.00)

PHYS 2B - Physics - Electricity and Magnetism (4.00)



PHYS 4B - Physics for Scientists and Engineers: Electricity and Magnetism (6.00)

END OF AGREEMENT