

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Grossmont 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)



CSIS 293 - Introduction to Java Programming (4.00)

--- Or ---

CSIS 250 - Introduction to Python Programming (4.00)

--- Or ---

CSIS 296 - Introduction to C++ Programming (4.00)

--- And ---

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



No Course Articulated

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



CSIS 294 - Intermediate Java Programming and Fundamental Data Structures (4.00)

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| CSE 12 - Basic Data Structures and Object-Oriented Design (4.00) | ← | CSIS 294 - Intermediate Java Programming and Fundamental Data Structures (4.00) <div>--- And ---</div> CSIS 297 - Intermediate C++ Programming (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 245 - Discrete Math (3.00) <div>--- Or ---</div> CSIS 240 - 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) | ← | CSIS 165 - Assembly Language and Machine Architecture (4.00) |

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| MATH 18 - Linear Algebra (4.00) | ← | MATH 284 - Linear Algebra (3.00) |
| MATH 20A - Calculus for Science and Engineering (4.00) | ← | MATH 180 - Analytic Geometry and Calculus I (5.00) |
| MATH 20B - Calculus for Science and Engineering (4.00) | ← | MATH 280 - Analytic Geometry and Calculus II (4.00) |
| MATH 20C - Calculus and Analytic Geometry for Science and Engineering (4.00) | ← | MATH 281 - Multivariable Calculus (4.00) |

Select 2 Course(s) from the following

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| BILD 1 - The Cell (4.00) | ← | BIO 230 - Principles of Cellular, Molecular and Evolutionary Biology (4.00) <div>--- And ---</div> BIO 240 - Principles of Ecology, Evolution, and Organismal Biology (5.00) |
| BILD 2 - Multicellular Life (4.00) | ← | BIO 230 - Principles of Cellular, Molecular and Evolutionary Biology (4.00) <div>--- And ---</div> BIO 240 - Principles of Ecology, Evolution, and Organismal Biology (5.00) |
| BILD 3 - Organismic and Evolutionary Biology (4.00) | ← | BIO 230 - Principles of Cellular, Molecular and Evolutionary Biology (4.00) <div>--- And ---</div> BIO 240 - Principles of Ecology, Evolution, and Organismal Biology (5.00) |
| CHEM 6A - General Chemistry I (4.00) | ← | CHEM 141 - General Chemistry I (5.00) |
| CHEM 6B - General Chemistry II (4.00) | ← | CHEM 141 - General Chemistry I (5.00) <div>--- And ---</div> CHEM 142 - General Chemistry II (5.00) |
| PHYS 2A - Physics - Mechanics (4.00) | ← | PHYC 140 - Mechanics of Solids (4.00) <div>--- Or ---</div> PHYC 201 - Mechanics and Waves (5.00) |
| PHYS 2B - Physics - Electricity and Magnetism (4.00) | ← | PHYC 240 - Electricity, Magnetism and Heat (4.00) <div>--- Or ---</div> PHYC 202 - Electricity, Magnetism, and Heat (5.00) |

END OF AGREEMENT