

# Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Irvine Valley 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](http://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](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

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**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) ← **CS 38** - Java Programming (3.00)

**CSE 12** - Basic Data Structures and Object-Oriented Design (4.00) ← **CS 41** - Data Structures (3.00)

**CSE 15L** - Software Tools and Techniques Laboratory (2.00) ← No Course Articulated

**CSE 20** - Discrete Mathematics (4.00) ← **MATH 30** - Computer Discrete Mathematics I (3.00)  
Same-As: MATH 15A Same-As: CS 6A

<b>CSE 21</b> - Mathematics for Algorithms and Systems (4.00)	←	<b>MATH 31</b> - Computer Discrete Mathematics II (3.00) Same-As: CS 6B
<b>CSE 30</b> - Computer Organization and Systems Programming (4.00)	←	<div><b>CS 40A</b> - Computer Organization and Assembly Language I (3.00)</div> <div>--- And ---</div> <div><b>CS 40B</b> - Computer Organization and Assembly Language II (3.00)</div>

<b>MATH 18</b> - Linear Algebra (4.00)	←	<b>MATH 26</b> - Introduction to Linear Algebra (4.00)
<b>MATH 20A</b> - Calculus for Science and Engineering (4.00)	←	<div><b>MATH 3A</b> - Analytic Geometry and Calculus I (5.00)</div> <div>--- Or ---</div> <div><b>MATH 3AH</b> - Analytic Geometry and Calculus I Honors (5.00)</div>
<b>MATH 20B</b> - Calculus for Science and Engineering (4.00)	←	<div><b>MATH 3B</b> - Analytic Geometry and Calculus II (5.00)</div> <div>--- Or ---</div> <div><b>MATH 3BH</b> - Analytic Geometry and Calculus II Honors (5.00)</div>
<b>MATH 20C</b> - Calculus and Analytic Geometry for Science and Engineering (4.00)	←	<b>MATH 4A</b> - Analytic Geometry and Calculus III (5.00)

Select 2 Course(s) from the following		
<b>BILD 1</b> - The Cell (4.00)	←	<div><b>BIO 2</b> - Plant Biology (4.00)</div> <div>--- And ---</div> <div><b>BIO 5</b> - Animal Biology (4.00)</div> <div>--- And ---</div> <div><b>BIO 16</b> - Cellular Biology (4.00)</div> <div>--- Or ---</div> <div><b>BIO 80</b> - Integrated Biology: Organisms to Ecosystems (4.00)</div> <div>--- And ---</div> <div><b>BIO 81</b> - Integrated Biology: From DNA to Organisms (4.00)</div> <div>--- Or ---</div> <div><b>BIO 80H</b> - Integrated Biology: Organisms to Ecosystems Honors (4.00)</div> <div>--- And ---</div> <div><b>BIO 81H</b> - Integrated Biology: From DNA to Organisms Honors (4.00)</div>
<b>BILD 2</b> - Multicellular Life (4.00)	←	<div><b>BIO 2</b> - Plant Biology (4.00)</div> <div>--- And ---</div> <div><b>BIO 5</b> - Animal Biology (4.00)</div> <div>--- And ---</div> <div><b>BIO 16</b> - Cellular Biology (4.00)</div> <div>--- Or ---</div> <div><b>BIO 80</b> - Integrated Biology: Organisms to Ecosystems (4.00)</div> <div>--- And ---</div> <div><b>BIO 81</b> - Integrated Biology: From DNA to Organisms (4.00)</div> <div>--- Or ---</div> <div><b>BIO 80H</b> - Integrated Biology: Organisms to Ecosystems Honors (4.00)</div> <div>--- And ---</div> <div><b>BIO 81H</b> - Integrated Biology: From DNA to Organisms Honors (4.00)</div>

**BILD 3** - Organismic and Evolutionary Biology (4.00)



**BIO 2** - Plant Biology (4.00)

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**BIO 5** - Animal Biology (4.00)

--- And ---

**BIO 16** - Cellular Biology (4.00)

--- Or ---

**BIO 80** - Integrated Biology: Organisms to Ecosystems (4.00)

--- And ---

**BIO 81** - Integrated Biology: From DNA to Organisms (4.00)

--- Or ---

**BIO 80H** - Integrated Biology: Organisms to Ecosystems Honors (4.00)

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**BIO 81H** - Integrated Biology: From DNA to Organisms Honors (4.00)

**CHEM 6A** - General Chemistry I (4.00)



**CHEM 1A** - General Chemistry I (5.00)

**CHEM 6B** - General Chemistry II (4.00)



**CHEM 1A** - General Chemistry I (5.00)

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**CHEM 1B** - General Chemistry II (5.00)

**PHYS 2A** - Physics - Mechanics (4.00)



**PHYS 4A** - General Physics (4.00)

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



**PHYS 4B** - General Physics (4.00)

**END OF AGREEMENT**