Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

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LOWER DIVISION MAJOR REQUIREMENTS

CSE 8A - Introduction to Programming and Computational Problem Solving I (4.00)	←	**CIT 63** - Beginning JAVA Programming (4.00)
		--- Or ---
		CSCI 40 - Programming Concepts and Methodology I (4.00)
--- 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)	←	**CIT 63** - Beginning JAVA Programming (4.00)
		--- Or ---
		CIT 66 - Beginning C++ Programming (4.00)

CSE 12 - Basic Data Structures and Object-Oriented Design (4.00)	←	**CSCI 41** - Programming Concepts and Methodology II (4.00)
CSE 15L - Software Tools and Techniques Laboratory (2.00)	←	No Course Articulated

CSE 20 - Discrete Mathematics (4.00) Same-As: MATH 15A	←	**CSCI 26** - Discrete Mathematics for Computer Science (4.00)
CSE 21 - Mathematics for Algorithms and Systems (4.00)	←	No Course Articulated
CSE 30 - Computer Organization and Systems Programming (4.00)	←	No Course Articulated

MATH 18 - Linear Algebra (4.00)	←	**MATH 26** - Elementary Linear Algebra (3.00) --- Or --- **MATH 17** - Differential Equations and Linear Algebra (5.00)
MATH 20A - Calculus for Science and Engineering (4.00)	←	**MATH 5A** - Mathematical Analysis I (5.00)
MATH 20B - Calculus for Science and Engineering (4.00)	←	**MATH 5B** - Mathematical Analysis II (4.00)
MATH 20C - Calculus and Analytic Geometry for Science and Engineering (4.00)	←	**MATH 6** - Mathematical Analysis III (4.00)

Select 2 Course(s) from the following		
BILD 1 - The Cell (4.00)	←	**BIOL 11A** - Biology for Science Majors I (5.00) --- And --- **BIOL 11B** - Biology for Science Majors II (5.00)
BILD 2 - Multicellular Life (4.00)	←	**BIOL 11A** - Biology for Science Majors I (5.00) --- And --- **BIOL 11B** - Biology for Science Majors II (5.00)
BILD 3 - Organismic and Evolutionary Biology (4.00)	←	**BIOL 11A** - Biology for Science Majors I (5.00) --- And --- **BIOL 11B** - Biology for Science Majors II (5.00)
CHEM 6A - General Chemistry I (4.00)	←	**CHEM 1A** - General Chemistry (5.00)
CHEM 6B - General Chemistry II (4.00)	←	**CHEM 1A** - General Chemistry (5.00) --- And --- **CHEM 1B** - General Chemistry and Qualitative Analysis (5.00)
PHYS 2A - Physics - Mechanics (4.00)	←	**PHYS 4A** - Physics for Scientists and Engineers (4.00)
PHYS 2B - Physics - Electricity and Magnetism (4.00)	←	**PHYS 4B** - Physics for Scientists and Engineers (4.00)

END OF AGREEMENT