

B.S. Computer Science (CS 26): Major Checklist, Fall 2023

Complete	Lower Division (52 units)
	Intro to Computer Science
	CSE 8B/11, Introduction to Computer Science: Java
	Lower-Division Computer Science
	CSE 12, Basic Data Structures and Object-Oriented Programming
	CSE 15L (2 units), Software Tools and Technique Laboratory
	CSE 20 or Math 15A or MATH 31CH or MATH 109, Introduction to Discrete Mathematics
	CSE 21 or MATH 154 or MATH 184, Mathematics for Algorithms and Systems
	CSE 30, Computer Organization & Systems Programming
	Lower-Division Elective (2 units from): CSE 3, CSE 4GS, CSE 6R, CSE 6GS, CSE 8A, CSE 42, CSE 86, CSE 90, CSE 91, CSE 95, CSE 99, CSE 180, CSE 180R, MAE 8, MAE 9, COGS 9, COGS 10, COGS 18, ECE 15, ENG 10, ENG 15, NANO 15, CENG 15, or any CSE upper-division course not used to fulfill other degree requirements.
	Mathematics
	Math 20A, Calculus for Science and Engineering
	Math 20B, Calculus for Science and Engineering
	Math 20C, Calculus and Analytical Geometry for Science and Engineering or MATH 31BH Honors Multivariable Calculus
	Math 18, Linear Algebra or MATH 31AH Honors Linear Algebra
	General Science , any two courses (eight units) chosen from the following list (the courses do not need to be sequential): 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, BICD 100, BIMM 101, BIMM 121, COGS 107A, COGS 107B, COGS 115, ESYS 101, HDS 110, SIO 126, or SIO 128
	Statistics
	MATH 181A or Math 183 or ECON 120A or ECE 109 or CSE 103
Complete	Upper Division (72 units)
	Upper-Division (Core) Computer Science
	CSE 100 or CSE 100R, Advanced Data Structures and Programming
	CSE 101, Design and Analysis of Algorithms/Theory
	CSE 110, Software Engineering
	Systems Electives, 12 units CSE 120, CSE 123, CSE 124, CSE 127, CSE 132C, CSE 140, CSE 140L, CSE 141, CSE 141L, CSE 142, CSE 142L, CSE 143, CSE 145, CSE 148, CSE 160, DSC 102, ECE 111, ECE 140A, ECE 140B
	Theory/Abstraction Electives, 12 units CSE 105, CSE 106, CSE 107, CSE 130, CSE 132A, CSE 140, CSE 150A, DSC 120, MATH 170A, MATH 170B, MATH 170C, MATH 171A, MATH 171B, MATH 181D, MATH 187A
	Applications of Computing Electives, 12 units CSE 112, CSE 118, CSE 125, CSE 127, CSE 131, CSE 132B, CSE 134B, CSE 135, CSE 136, CSE 140, CSE 140L, CSE 142, CSE 142L, CSE 145, CSE 148, CSE 150B, CSE 151A, CSE 151B, CSE 152A, CSE 152B, CSE 156, CSE 158 or CSE 158R, CSE 163, CSE 165, CSE 166, CSE 167, CSE 168, CSE 169, CSE 170, CSE 175, CSE 176A, CSE 176E, CSE 181, CSE 182, CSE 184, CSE 185, CSE 193, CSE 194, COGS 108, COGS 109, COGS 118A, COGS 118B, COGS 118C, COGS 120, COGS 121, COGS 122, COGS 123, COGS 124, COGS 125, COGS 126, COGS 127, COGS 181, COGS 185, COGS 186, COGS 187A, COGS 187B, COGS 188, COGS 189, DSGN 100, ECON 172A, ECON 172B, ECE 140A, ECE 140B, ECE 148, ENG 100D/ENG 100L, EDS 124AR, EDS 124BR, LIGN 165, LIGN 167, MATH 114, MATH 155A, MATH 189, MUS 171, MUS 172, MUS 177, VIS 141A, VIS 141B
	Electives (24 units) For a full list of policies for CSE Electives, please visit the current CSE Electives page.
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Bolding is a visual aid that indicates courses that may be more easily available for enrollment due to fewer prerequisites or restrictions. Please check the catalog for up-to-date prerequisite and enrollment information.

*ALL major requirements must be taken for letter grade AND passed with a C- or better with the exceptions of: CSE 91, CSE 95, CSE 197, CSE 198, and CSE 199. *