



Bachelor of Science in Computer Science Curriculum Flowchart

PARTNERSHIP PROGRAM COMPUTER SCIENCE & ENGINEERING

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Western	ır 1	Fall 18 credits	MATH 151 (4) Calculus 1 (PR: ACT math 27, SAT math 630, ALEKS 76, or MATH 141)	PHYS 190 (3) General Physics 1 (PR/CR: MATH 151, PHYS 185)	PHYS 185 (1)* Laboratory Physics 1 (PR/CR: PHYS 190)	CS 190 (3) Computer Science 1 (Free Elective)	ENG 102 (3) Academic Writing (Free Elective)	Humanities & Social Science (3) Lower Division HWTR 100 (1) CS-based Headwaters
	Year	Spring 17 credits	MATH 251 (4) Calculus 2 (PR: MATH 151)	Natural Science Sequence (4) PHYS 191+186^ preferred (PR: PHYS 190 PR/CR: PHYS 186)	CS 191 (3) Computer Science 2 (PR: CS 190)	PHIL 100 or PHIL 200 (3)^ Critical Thinking or Symbolic Logic	Humanities & Social Science (3) Lower Division	Admission to CU Boulder Complete a college-level, two-course sequence in calculus w/ grade of B- or higher Complete one college-level physical science course (calc-based physics &/or college chemistry w/ grade of B- of higher Maintain a cumulative GPA of 3.0 or higher The minimum passing grade for prerequisite and co-requisite classes specifically for computer science majors is a C
	ar 2	Fall 15 credits	MATH 314 (3)* Applied Probability (PR: MATH 251)	Natural Science (3)	CS 280 (3) Data Structures (PR: CS 191)	CS 330 (3)* Operating Systems & Architecture (PR: CS 191)	Humanities & Social Science (3) Lower Division	
	Year	Spring 15 credits	MATH 200 (3)^ Discrete Mathematics (PR: MATH 151, CS 191)	CS 370 (3)^ Systems Programming in C (PR: CS 280)	CS 412 (3)^ Software Engineering (PR: CS 280)	PHIL 135 (3)^ Introduction to Ethics	Free Elective (3)	
CU Boulder	Year 3	Fall 16 credits	CSCI 2820 (3)* Linear Algebra w/ CS Applications (PR: MATH 251, CS 280)	Natural Science (3)	CSCI 3104 (4)* Algorithms (PR: MATH 200, MATH 251, CS 280)	CSCI Core/Elective (3) CSCI 3010* preferred (PR: CS 280 PR/CR: CS 412)	CSCI Core/Elective (3)	Key PR = Pre-requisite CR = Co-requisite * = Fall only course
		Spring 14 credits	CSCI 3155 (4)^ Principles of Programming Languages (PR: MATH 200, CS 280)	CSCI Core/Elective (4)	CSCI Core/Elective (3)	ENG 302 (3) Technical Writing (PR: ENG 102)		^ = Spring only course CS Senior Capstone A minimum of 36 CS foundation, core and/or elective credits must be completed before Senior Capstone Can be taken any semester pending completion of any pre/co-requisites T = = = 1 Must be completed before Senior Capstone
	ar 4	Fall 17 credits	CSCI 4308 (4)* Software Engineering Project 1	Natural Science (3)	CSCI Core/Elective (4)	CSCI Core/Elective (3)	Humanities & Social Science (3) Upper Division	
	Year	Spring 16 credits	CSCI 4318 (4)^ Software Engineering Project 2	CSCI Core/Elective (3)	CSCI Core/Elective (3)	Humanities & Social Science (3) Upper Division	Free Elective (3)	