Computer Science B.S. Degree — Suggested 4-year Plans

Students who start with CS 1400 and Precalculus.

	FALL semester		SPRING semester	
Freshman year (32 credits)	CS 1400: Intro to Computer Programming	4	CS 1410: Intro to Object-Oriented Prog	
	MATH 1080: Precalculus	5	MATH 1210: Calculus I†	
	Gen Ed†	3	WRTG 2010: Intermediate Writing†	
	Gen Ed	3	Gen Ed†	
			Free Elective, if needed	
Sophomore year (31 credits)	CS 2420: Intro to Algs & Data Structures	4	CS 3500: Software Practice I	
	MATH 1220: Calculus II†	4	CS 2100: Discrete Mathematics	
	Gen Ed (IR)†	3	CS Elective	
	American Institutions (AI)†	3	MATH 2270: Linear Algebra	
			Free Elective, if needed	
Junior year (28 credits)	CS 3505: Software Practice II	3	CS Theory: CS 3100 or CS 3200	
	CS 3810: Computer Organization	3	CS 4150: Algorithms	
	CS 3130: Engineering Prob & Stats	3	CS Ethics	
	CS Elective	3	CS Elective	
	WRTG 3014 or 3015†	3	Free Elective, if needed	
Senior year (29 credits)	CS 4000 (Project) or CS 4940 (Thesis)	3	CS 4500 (Project)‡ or CS 4970 (Thesis)◁	
	CS 4400: Computer Systems	3	CS Elective	
	CS Elective	3	CS Elective	
	Math/Science	4	Gen Ed (DV)†	
120 credits total	Free Elective, if needed	3	Free Elective, if needed	

Students who start with CS 1420 and Calculus I.

	FALL semester		SPRING semester	
Freshman year (31 credits)	CS 1420: Accelerated Object-Oriented Prog	4	CS 2420: Intro to Algs & Data Structures	4
	MATH 1210: Calculus I†	4	MATH 1220: Calculus II†	4
	Gen Ed†	3	WRTG 2010: Intermediate Writing†	3
	Gen Ed†	3	Gen Ed†	3
			Free Elective, if needed	3
Sophomore year (30 credits)	CS 3500: Software Practice I	4	CS 3505: Software Practice II	3
	CS 2100: Discrete Mathematics	3	CS 3810: Computer Organization	3
	MATH 2270: Linear Algebra	4	CS 3130: Engineering Prob & Stats	3
	American Institutions (AI)†	3	Gen Ed (DV)†	3
	Free Elective, if needed	3	Free Elective, if needed	1
Junior year (30 credits)	CS 4150: Algorithms	3	CS 4400: Computer Systems	3
	CS Ethics	3	CS Theory: CS 3100 or CS 3200	3
	CS Elective	3	CS Elective	3
	Gen Ed† (IR)	3	WRTG 3014 or 3015†	3
	Free Elective	3	Free Elective	3
Senior year (29 credits)	CS 4000 (Project) or CS 4940 (Thesis)	3	CS 4500 (Project)‡ or CS 4970 (Thesis)◁	3
	CS Elective	3	CS Elective	3
	CS Elective	3	CS Elective	3
	Math/Science Elective†	4	Free Elective, if needed	3
120 credits total	Free Elective, if needed	3	Free Elective, if needed	1

† Honors options available, see https://honors.utah.edu/ for details.

‡ Project Students pursuing the Honors degree must take CS 4998 concurrently with CS 4500 to satisfy the Honors Thesis Work.

◁ Thesis Students pursuing the Honors degree must take CS 4999 (instead of CS 4970) to satisfy the Honors Thesis Work.