Software Development B.S. Degree — Suggested 4.5-year Plans

Track A: Students who start with CS 1420 and Calculus I.

	FALL semester		SPRING semester	
Freshman year **(27 credits)**	CS 1420: Accelerated Object-Oriented Prog	4	CS 2420: Intro to Algs & Data Structures	4
	MATH 1210: Calculus I†	4	CS 1810: Introduction to Computing Systems	3
	WRTG 2010: Intermediate Writing†	3	American Institutions	3
	Gen Ed†	3	Gen Ed†	3
Sophomore year **(25 credits)**	CS 3500: Software Practice I	4	CS 3505: Software Practice II	3
	CS 3540: Design Human Centered Systems	3	CS 3090: Ethics in Computing	3
	Math/Science Elective†	3	DS 2500: Data Wrangling	3
	Gen Ed (DV)†	3	Des/Mgt/Ent Elective	3
Junior year **(27 credits)**	CS 3550: Web Software I	3	CS 4550: Web Software II	3
	SD Elective	3	CS 5530: Database Systems (QI)	3
	Math/Science Elective†	3	Gen Ed (IR)†	3
	Des/Mgt/Ent Elective	3	Free Elective, if needed	3
			Free Elective, if needed	3
Senior year **(28 credits)**	CS 4440: Computer Security	3	CS 4000 (Project)‡	3
	CS 4530: Mobile App Programming	3	SD Elective	3
	WRTG 3014 or 3015†	3	SD Elective	3
	Free Elective, if needed	3	CS 4011: Professional Development	1
	Free Elective, if needed	3	Free Elective, if needed	3
Fifth year **(15 credits)** **122 credits total**	CS 4500 (Project)‡	3		
	SD Elective	3		
	Gen Ed†	3		
	Free Elective, if needed	3		
	Free Elective, if needed	3		

Track B: Students who start with CS 1400 and College Algebra.

	FALL semester		SPRING semester	
Freshman year **(27 credits)**	CS 1400: Intro to Computer Programming	4	CS 1410: Intro to Object-Oriented Prog	4
	MATH 1050: College Algebra	4	CS 1810: Introduction to Computing Systems	3
	WRTG 2010: Intermediate Writing†	3	MATH 1060: Trigonometry	3
	Gen Ed†	3	American Institutions	3
Sophomore year **(27 credits)**	CS 2420: Intro to Algs & Data Structures	4	CS 3500: Software Practice I	4
	MATH 1210: Calculus I†	4	CS 3540: Design Human Centered Systems	3
	Gen Ed (IR)†	3	DS 2500: Data Wrangling	3
	Des/Mgt/Ent Elective	3	Gen Ed†	3
Junior year **(24 credits)**	CS 3505: Software Practice II	3	CS 4550: Web Software II	3
	CS 3550: Web Software I	3	CS 5530: Database Systems (QI)	3
	Math/Science Elective†	3	CS 3090: Ethics in Computing	3
	Des/Mgt/Ent Elective	3	Gen Ed (DV)†	3
Senior year **(28 credits)**	CS 4530: Mobile App Programming	3	CS 4000: Senior Capstone (Project)‡	3
	CS 4440: Computer Security	3	SD Elective	3
	SD Elective	3	SD Elective	3
	WRTG 3014 or 3015†	3	CS 4011: Professional Development	1
	Free Elective, if needed	3	Gen Ed†	3
Fifth year **(15 credits)** **121 credits total**	CS 4500: Senior Capstone (Project)‡	3		
	SD Elective	3		
	Math/Science Elective†	3		
	Free Elective, if needed	3		
	Free Elective, if needed	3		

† 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.

Students need a minimum of 122 credit hours to graduate.