Software Development B.S. Degree — Suggested 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	Gen Ed†	3
	American Institutions	3	Gen Ed†	3
Sophomore year (25 credits)	CS 3500: Software Practice I	4	CS 3505: Software Practice II	3
	CS 3540: Human Centered Experiences	3	CS 3090: Ethics in Computing	3
	Math/Science Elective†	3	DS 2500: Data Wrangling	3
	Free Elective, if needed	3	Free Elective, if needed	3
Junior year (24 credits)	CS 3550: Web Software I	3	CS 4550: Web Software II	3
	Math/Science Elective†	3	SD Elective	3
	Gen Ed (DV)†	3	Des/Mgt/Ent Elective	3
	Free Elective, if needed	3	Free Elective, if needed	3
Senior year (24 credits)	CS 4440: Computer Security	3	CS 4530: Mobile App Programming	3
	SD Elective (QI)	3	CS 5530: Database Systems (QI)	3
	Des/Mgt/Ent Elective	3	WRTG 3014 or 3015†	3
	Free Elective, if needed	3	Free Elective, if needed	3
Fifth year (22 credits)	CS 4000: Senior Capstone (Project)‡	3	CS 4500: Senior Capstone (Project)‡	3
	SD Elective	3	CS 4011: Professional Development	1
	Gen Ed (IR)†	3	Gen Ed†	3
122 credits total	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 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	DS 2500: Data Wrangling	3
	Gen Ed	3	CS 3090: Ethics in Computing	3
	Gen Ed (DV)†	3	Gen Ed(IR)†	3
Junior year (24 credits)	CS 3505: Software Practice II	3	CS 4550: Web Software II	3
	CS 3540: Human Centered Experiences	3	SD Elective	3
	CS 3550: Web Software I	3	Math/Science Elective†	3
	Gen Ed†	3	Free Elective, if needed	3
Senior year (24 credits)	CS 4440: Computer Security	3	CS 4530: Mobile App Programming	3
	SD Elective	3	CS 5530: Database Systems (QI)	3
	Math/Science Elective†	3	WRTG 3014 or 3015†	3
	Des/Mgt/Ent Elective	3	Free Elective, if needed	3
Fifth year (22 credits)	CS 4000: Senior Capstone (Project)‡	3	CS 4500: Senior Capstone (Project)‡	3
	SD Elective	3	SD Elective	3
	Des/Mgt/Ent Elective	3	CS 4011: Professional Development	1
124 credits total	Free Elective, if needed	3	Des/Mgt/Ent Elective	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.