

Software Development B.S. Degree – Suggested 4-year Plans

Track A: Students who place into Calculus I *and have programming experience*

	FALL semester		SPRING semester	
Freshman year (27 credits)	CS 1420: Accel Object-Orient Programming	3	CS 2420: Intro to Algs & Data Structures	4
	MATH 1210: Calculus I†	4	CS 1810: Introduction to Computing Systems	3
	Gen AI	4	DS 2500: Data Wrangling	3
	Gen Ed (FF)†	3	WRTG 2010: Intermediate Writing	3
	Free Elective, if needed	3	Free Elective, if needed	3
Sophomore year (28 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	SD Elective (QI)	3
	Des/Mgt/Ent Elective	3	Gen Ed (FF/IR)†	3
	Gen Ed (BF/DV)†	3	Free Elective, if needed	3
Junior year (24 credits)	CS 3550: Web Software I	3	CS 4550: Web Software II	3
	CS 4530: Mobile App Programming	3	CS 4440: Computer Security	3
	SD Elective	3	CS 5530: Database Systems (QI)	3
	Gen Ed (HF)†	3	WRTG 3014 or 3015†	3
	Free Elective, if needed	3	Free Elective, if needed	3
Senior year (25 credits)	CS 4000: Senior Capstone Project	3	CS 4500: Senior Capstone Project	3
	SD Elective	3	CS 4011: Professional Development	1
	Des/Mgt/Ent Elective	3	SD Elective	3
	Gen Ed (HF)†	3	Math/Science Elective†	3
	Free Elective, if needed	3	Gen Ed (BF)†	3
104 credits total				

Track B: Students who place into CS 1400 and College Algebra.

	FALL semester		SPRING semester	
Freshman year (30 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
	Gen Ed (BF)†	3	MATH 1060: Trigonometry	3
	Gen Ed (AI)†	3	WRTG 2010: Intermediate Writing †	3
	Free Elective, if needed	3	Gen Ed (FF/IR)†	3
Sophomore year (30 credits)	CS 2420: Intro to Algs & Data Structures	4	CS 3500: Software Practice I	4
	MATH 1210: Calculus I†	4	CS 3090: Ethics in Computing	3
	Des/Mgt/Ent Elective	3	DS 2500: Data Wrangling	3
	Gen Ed (FF)†	3	Gen Ed (HF) †	3
	Free Elective, if needed	3	Gen Ed (BF) †	3
Junior year (30 credits)	CS 3505: Software Practice II	3	CS 4530: Mobile App Programming	3
	CS 3550: Web Software I	3	CS 4550: Web Software II	3
	CS 3540: Human Centered Experiences	3	CS 5530: Database Systems (QI)	3
	WRTG 3014 or 3015†	3	SD Elective	3
	Des/Mgt/Ent Elective	3	Gen Ed (HF/DV)†	3
Senior year (25 credits)	CS 4000: Senior Capstone Project	3	CS 4500: Senior Capstone Project†	3
	SD Elective (QI)	3	CS 4440: Computer Security	3
	SD Elective	3	CS 4011: Professional Development	1
	Math/Science Elective†	3	SD Elective	3
	Free Elective, if needed	3	Math/Science Elective†	3
115 credits total				

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

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