

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 (33 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
	WRTG 2010: Intermediate Writing	4	DS 2500: Data Wrangling	3
	Gen Ed [†]	3	American Institutions	3
	Free Elective, if needed	3	Free Elective, if needed	3
Sophomore year (31 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	SD Elective	3
	Des/Mgt/Ent Elective	3	Gen Ed (IR) [†]	3
	Free Elective, if needed	3	Free Elective, if needed	3
Junior year (30 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 (DV) [†]	3	WRTG 3014 or 3015 [†]	3
	Free Elective, if needed	3	Free Elective, if needed	3
Senior year (28 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
	Math/Science Elective [†]	3	Gen Ed [†]	3
	Free Elective, if needed	3	Gen Ed [†]	3
122 credits total				

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

	FALL semester		SPRING semester	
Freshman year (33 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 [†]	3	MATH 1060: Trigonometry	3
	Gen Ed [†]	3	Gen Ed (IR) [†]	3
	WRTG 2010: Intermediate Writing [†]	3	American Institutions	3
Sophomore year (33 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
	DS 2500: Data Wrangling	3	CS 3540: Design Human Centered Systems	3
	Gen Ed [†]	3	Math/Science Elective [†]	3
	Free Elective, if needed	3	Free Elective, if needed	3
Junior year (30 credits)	CS 3505: Software Practice II	3	CS 4440: Computer Security	3
	CS 3550: Web Software I	3	CS 4550: Web Software II	3
	SD Elective	3	CS 5530: Database Systems (QI)	3
	Gen Ed (DV) [†]	3	WRTG 3014 or 3015 [†]	3
	Des/Mgt/Ent Elective	3	Free Elective, if needed	3
Senior year (25 credits)	CS 4000: Senior Capstone Project	3	CS 4500: Senior Capstone Project [‡]	3
	CS 4530: Mobile App Programming	3	SD Elective	3
	SD Elective	3	SD Elective	3
	Math/Science Elective [†]	3	CS 4011: Professional Development	1
			Gen Ed [†]	3
121 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. Students need a minimum of 122 credit hours to graduate.