

# Software Development B.S. Degree — Suggested 5-year Plans

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

	FALL semester		SPRING semester	
<b>Freshman year (27 credits)</b>	CS 1420: Accelerated Object-Oriented Prog	4	CS 2420: Intro to Algs & Data Structures	4
	MATH 1210: Calculus I <sup>†</sup>	4	CS 1810: Introduction to Computing Systems	3
	Gen Ed (FF) <sup>†</sup>	3	DS 2500: Data Wrangling	3
	Gen Ed (AI) <sup>†</sup>	3	WRTG 2010: Intermediate Writing <sup>†</sup>	3
<b>Sophomore year (25 credits)</b>	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 <sup>†</sup>	3	Gen Ed (HF) <sup>†</sup>	3
	Gen Ed (FF) <sup>†</sup>	3	Gen Ed (BF) <sup>†</sup>	3
<b>Junior year (24 credits)</b>	CS 3550: Web Software I	3	CS 4550: Web Software II	3
	SD Elective	3	CS 4530: Mobile App Programming	3
	Gen Ed (HF) <sup>†</sup>	3	Des/Mgt/Ent Elective	3
	Gen Ed (BF) <sup>†</sup>	3	Math/Science Elective <sup>†</sup>	3
<b>Senior year (21 credits)</b>	SD Elective	3	CS 4440: Computer Security	3
	SD Elective (QI)	3	CS 5530: Database Systems (QI)	3
	WRTG 3014 or 3015 <sup>†</sup>	3	Gen Ed (IR) <sup>†</sup>	3
	Gen Ed (DV) <sup>†</sup>	3	Free Elective, if needed	3
<b>Fifth year (15 credits)</b>	CS 4000: Senior Capstone (Project) <sup>‡</sup>	3	CS 4500: Senior Capstone (Project) <sup>‡</sup>	3
	SD Elective	3	CS 4011: Professional Development	3
	Des/Mgt/Ent Elective	3	Free Elective, if needed	3
<b>112 credits total</b>	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	
<b>Freshman year (27 credits)</b>	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
	Gen Ed (HF) <sup>†</sup>	3	MATH 1060: Trigonometry	3
	Gen Ed (AI) <sup>†</sup>	3	Gen Ed (HF) <sup>†</sup>	3
<b>Sophomore year (27 credits)</b>	CS 2420: Intro to Algs & Data Structures	4	CS 3500: Software Practice I	4
	MATH 1210: Calculus I <sup>†</sup>	4	DS 2500: Data Wrangling	3
	Gen Ed (FF) <sup>†</sup>	3	Gen Ed (HF) <sup>†</sup>	3
	Gen Ed (DV) <sup>†</sup>	3	Gen Ed (BF) <sup>†</sup>	3
<b>Junior year (24 credits)</b>	CS 3505: Software Practice II	3	CS 3090: Ethics in Computing	3
	CS 3540: Human Centered Experiences	3	CS 4530: Mobile App Programming	3
	Math/Science Elective <sup>†</sup>	3	Gen Ed (BF) <sup>†</sup>	3
	Gen Ed (FF) <sup>†</sup>	3	Des/Mgt/Ent Elective	3
<b>Senior year (24 credits)</b>	CS 3550: Web Software I	3	CS 4550: Web Software II	3
	SD Elective (QI)	3	CS 5530: Database Systems (QI)	3
	SD Elective	3	SD Elective	3
	Des/Mgt/Ent Elective	3	WRTG 3014 or 3015 <sup>†</sup>	3
<b>Fifth year (19 credits)</b>	CS 4000: Senior Capstone (Project) <sup>‡</sup>	3	CS 4500: Senior Capstone (Project) <sup>‡</sup>	3
	SD Elective	3	CS 4440: Computer Security	3
	Math/Science Elective <sup>†</sup>	3	CS 4011: Professional Development	1
<b>121 credits total</b>	Free Elective, if needed	3	Gen Ed (IR) <sup>†</sup>	3

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

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