

B.S in Computer Science, 2020-2021

	Course	Title	Cr.	When	Prerequisites
Computer Science Required GE Courses	Life Science	BIOL 1610/15 - Bio 1/ Lab	4	F/S/Su	
	Ph. Sci. Option 1	CHEM 1210/15 - Chem 1/Lab	5	F/S/Su	MATH 1050
	Ph. Sci. Option 2	PHYS 2210/15 - Physics 1/Lab	5	F/S	MATH 1210
	Soc/Behavioral	CSIS 1010 - E-Com./Society	3	F/S	
	Quantitative Lit	MATH 1210 - Calculus 1	4	F/S/Su	MATH 1050 & 1060 or ACT 26+
Other GE courses are required to graduate with a Bachelor's Degree from SUU. The above-listed courses count for both GE and Major Requirements					
CSIS Common Core	CS 1400	Fundamentals of Programming	3	F/S	MATH 1050
	CS 1410	Object Oriented Programming	3	F/S/Su	CS 1400
	CS 3200	Database Design and Management	3	F/S/Su	Jr. Sr. Standing Required
	CSIS 1000	Intro to Computer Apps and Internet	3	F/S/Su	
	IS 2000	Web Development	3	F/S	CSIS 1010 or Instructor Permission
	IS 2600	Data Comm. and Networking	3	F/S	
	IS 3650	Defensive Security	3	F/Su	IS 2600
Computer Science Required Core	CS 2300	Discrete Structures	3	F	CS 1410
	CS 2420	Intro to Algs. and Data Structures	3	F/S/Su	CS 1410
	CS 2450	Software Engineering	3	F	CS 2420
	CS 2810	Computer Organization and Arch.	3	S	CS 1410 and EET 2780
	CS 3000	Advanced Algs. and Data Structures	3	S	CS 2300 and CS 2420
	CS 3150	C and C++ Programming	3	F	CS 2420
	CS 3550	Foundation of Computation Theory	3	S	CS 2300 or MATH 3120
	CS 3600	Operating Systems	3	S	CS 2420
	CS 4550	Programming Languages	3	F	CS 3550
	CS 4800	CS Capstone Project	3	S	CS 2300, CS 2810, CS 3000
	CSIS 1300	Programming with Python	3	S	MATH 1050
	EET 2780	Digital Electronics 1	3	F	MATH 1050 or higher
	MATH 1220	Calculus 2	4	F/S/Su	MATH 1210
	MATH 2270	Linear Algebra	3	F/S/Su	MATH 1220
MATH 3700	Probability and Statistics	4	F/S/Su	MATH 1220	
Full-Year Science Course (Choose 1)	BIOL 1620/25	Gen Bio II/Lab	4	F/S/Su	BIOL 161/15
	CHEM 1220/25	Principles of Chemistry II/Lab	5	S/Su	CHEM 1210/1215
	PHYS 2220/25	Physics for Sci. and Eng. II/ Lab	5	F/S	PHYS 2210/15, MATH 1220
Computer Science Major Electives (Choose 6-7)	CS 3300	Mobile App Dev. for Android	3	S-Odd	CS 2420
	CS 4300	Mobile App Dev. for iOS	3	S-Even	CS 2420
	CS 4350	Web Programming	3	F-Odd	CS 2420
	CS 4720	Artificial Intelligence	3	F-Even	CS 2420
	CSIS 3700	Introduction to Digital Forensics	3	F	IS 2600
	CSIS 4540	Human-Computer Interfaces	3	S-Odd	CS 2420
	CSIS 4560	Big Data Analytics	3	S-Even	CS 3200
	CSIS 4700	Advanced Digital Forensics	3	S	CSIS 3700
	CYBR 4360	Security Dev Ops	3	N/A	N/A no data
	CYBR 4370	Reverse Engineering	3	N/A	N/A no data
	EET 3780	Applications of Microprocessors	3	F	EET 2780
	EET 3790	Computer Interfacing	3	S	EET 2780
Computer Science Elective (Choose 0-3 Credits)	CSIS 3990	Undergraduate Research	1	F/S	Instructor Permission, Max. 5 Credits
	CSIS 4850	Special Topics	1-3	F/S	Instructor Permission, Max. 4 Credits
	CSIS 4890	Internship	1-9	F/S	Instructor Permission, Max. 9 Credits