

## B.S. in Cybersecurity, 2021-22

	Course	Title	Cr.	When	Prerequisites
	SS GE	IS 2400 - Technology & Ethics	3	F/S/Su	
CYBER GE req	Quantitative Lit.	MATH 1050 - College Algebra	4	F/S/Su	MATH 1010 or ALEKS 50
	Quantitative Lit.	MATH 1031 - Statistical Reasoning or MATH 1040 Statistical Inference	3 4	S/Su F/S/Su	MATH 0970, or 0090 or 1010 or ALEKS 40 MATH 1010 or ALEKS 50
Other GE courses are required to graduate with a Bachelor's Degree from SUU.					
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CYBER Core	COMM 2120	Team Work, Decision Making & Lead.	3	S	
	CS 1400	Fundamentals of Programming	3	F/S	*CSIS 1030 or *MATH 1050 w/i last 4 years
	CS 1410	Object Oriented Programming	3	F/S/Su	CS 1400
	CS 3200	Database Design & Management	3	F/S/Su	Jr or Sr Standing
	CSIS 1000	Intro to Computer Apps & Internet	3	F/Su	
	CSIS 1300	Programming with Python	3	S	MATH 1050
	CSIS 2010	Computer Applications	3	S	CSIS 1000
	CSIS 3670	Information Assurance Fundamentals	3	F	IS 2670
	CSIS 3700	Intro to Digital Forensics	3	F	IS 2600 or 2670
	CSIS 4700	Advanced Digital Forensics	3	S	CSIS 3700 or Instructor Permission
	EET 2750	PC Hardware	3	F/S/Su	
	IS 2000	Web Development	3	F/S	-
	IS 2400	Technology and Ethics	3	F/S	ENGL 1010 OR 1010E or Eng ACT OF 29
	IS 2600	Data Communications & Networking	3	F/S	
	IS 2610	System Administration I	3	F	IS 2600
	IS 2670	Fundamentals of Security	3	F/S/Su	IS 2600
	IS 3010	Technology Project Management	3	S	MATH 1031 or 1040
	IS 3100	Systems Analysis & Design	3	S	IS 3010
	IS 3610	System Administration II	3	S	(IS 2600 and 2610) and CSIS 1300
	IS 3640	Network & Cloud Security	3	S	IS 2670
	IS 3650	Defensive Security	3	F/Su	IS 3640
	IS 3680	Offensive Security & Ethical Hacking	3	as needed	IS 3540 or 3650
IS 4810	Senior Capstone	3	S	IS 3100	
<b>Cybersecurity Electives (Select 9 credits from list below)</b>					
	CS 2300	Discrete Structures	3	F	CS 1410
	CS 2420	Intro to Algorithms & Data Structure	3	F/S/Su	CS 1410
	CS 3150	C and C++ Programming	3	F	CS 2420
	CS 3300	Mobil App Development for Android	3	S-odd	CS 2420
	CS 3600	Operating Systems	3	S	CS 2420
	CS 4300	Mobil App Development for iOS	3	S-even	CS 2420
	CSIS 1100	Outreach Computing Projects	1	F/S/Su	
	CSIS 4540	Human-Computer interfaces	3	S-odd	CS 2420
	CSIS 4560	Big Data Analytics	3	S-even	CS 3200
	CSIS 4880	Community Engagement	1-3	as needed	
	CSIS 4890	Internship	1-9	as needed	
	IS 3550	Virtualization and Cloud Computing	3	F-even	IS 3610
	IS 3660	Server Administration	3	F	IS 3610
	IS 4400	Emergency Tech Planning & Response	3	F-odd	CSIS 3670 & IS 3010
	CSIA 6060	IT Risk Management	3	S	
	CSIA 6230	Cryptography Fundamentals	3	F	
	CSIA 6300	Cyber Law and Investigations	3	Su	
	CSIA 6310	Compliance and Cybersecurity	3	F	
	CSIA 6320	Security Frameworks	3	S	
	CSIA 6330	Information Systems Auditing	3	F	
Additional Free Elective credits to total 120 and 40 Upper Division if needed					

\*Can be taken concurrently

*Last updated Aug 3, 2021*