COMPUTER SCIENCE: CYBER SECURITY, B.S.

Code	Title	Units			
Lower-Division Requirements					
CSC 1043 and CSC 1043L	Introduction to Computer Programming and Introduction to Computer Programming Lab	3			
CSC 1054 and CSC 1054L	Objects and Elementary Data Structures and Objects and Elementary Data Structures Lab	4			
CSC 2054 and CSC 2054L	Data Structures and Algorithms and Data Structures and Algorithms Lab	4			
MTH 1064 and MTH 1064L	Calculus I (FE) and Calculus I Lab (FE) ¹	4			
MTH 1074 and MTH 1074L	Calculus II and Calculus II Lab	4			
MTH 2003	Introduction to Statistics ²	3			
Upper-Division Re	Upper-Division Requirements				
CSC 3014	Operating Systems	4			
CSC 3023	Software Engineering	3			
CSC 3094	Programming Languages	4			
CSC 4054	Computer Architecture and Assembly Language	4			
CSC 4081	Senior Seminar in Computer Science	1			
ISS 3073	Networking and Security	3			
ISS 3092	Topics in Cyber Security	2			
ISS 4003	Information and Computer Security	3			
ISS 4012	Topics in Information Security	2			
ISS 4014	Data Base Systems and Web Integration	4			
MTH 3043	Discrete Mathematics	3			
		2-3			
CSC 4102	equence from the following:	2-3			
and CSC 4121	Independent Research in Computer Science I and Independent Research in Computer Science I	II			
CSC 4133	Service Learning in Computer Science				
HON 4098 and HON 4099	Honors Project II				
ISS 4072	Internship in Information Systems ³				
Elective Courses					
Choose five (5) or	six (6) units from the following: ³	5-6			
CSC 3002	UNIX and Python Scripting for Computational Science				
CSC 3011	Machine Learning and Multivariate Modeling in R				
CSC 3021	Computational Tools				
CSC 3031	Data Visualization and Communication with R				
CSC 3102	Security+ Exam Preparation				
CSC 3112	Network+ Exam Preparation				
CSC 4012	Topics in Computer Science				
CSC 4091	Independent Studies in Computer Science				
CSC 4093	Software Project				
CSC 4102	Independent Research in Computer Science I				
CSC 4121	Independent Research in Computer Science II				
CSC 4133	Service Learning in Computer Science				
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a	EGR 2024 and EGR 2024L	Circuit Analysis and Circuit Analysis Lab	
a	EGR 3053 and EGR 3053L	Analog Electronics and Analog Electronics Lab	
a	EGR 3093 and EGR 3093L	Digital Electronics and Digital Electronics Lab	
a	EGR 4042 and EGR 4042L	Embedded Systems and Robotics and Embedded Systems and Robotics Lab	
E	EGR 4103	Electrical Signals and Systems	
ŀ	HON 4098	Honors Project I	
H	HON 4099	Honors Project II	
Į.	SS 3042	Project Management and Quality Assurance	
- 1	SS 4072	Internship in Information Systems	
N	MTH 2033	Linear Algebra	
	MTH 2074	Calculus III	
Total Units			62-64

Total Units for the Degree: 59 (plus 4 units of FE)

MTH 1044 may substitute for MTH 1064.
 MTH 3063 or MTH 3083 may substitute for MTH 2003.
 Six (6) elective units required if ISS 4072 is chosen.