

CYBERSECURITY, BACHELOR OF SCIENCE

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Curriculum

Course	Title	Hours	Completed
Freshman			
Fall			
CSEC 1003	Introduction to Cybersecurity	3	_____
CSEC 1113	Introduction to Networking	3	_____
ENGL 1013	Composition I ¹	3	_____
FAH 1XXX	Fine Arts and Humanities Courses ¹	3	_____
MATH 2243	Calculus for Business and Economics ²	3	_____
TECH 1001	Orientation to the University ³	1	_____
	Hours	16	
Spring			
COMS 1011 & COMS 1013	Programming Foundations I Lab and Programming Foundations I	4	_____
CSEC 1213	Wireless and Cellular Security	3	_____
ENGL 1023	Composition II ¹	3	_____
SCIL 1XXX	Science with Laboratory ¹	4	_____
	Hours	14	
Sophomore			
Fall			
COMS 2203	Programming Foundations II	3	_____
COMS 2223	Computer Organization and Programming	3	_____
CSEC 2213	Network Forensics and Incident Response	3	_____
MATH 2703	Discrete Mathematics	3	_____
SS 1XXX	Social Science Courses ¹	3	_____
	Hours	15	
Spring			
COMM 2173	Business and Professional Speaking ⁴	3	_____
COMS 2213	Data Structures	3	_____
COMS 2323	Programming in Python	3	_____
CSEC 2223	Virtualization	3	_____
Elective		3	_____
	Hours	15	
Junior			
Fall			
CSEC 3123	Cyber Defense I	3	_____
CSEC 3243	Computer Architecture	3	_____
CSEC 4133	Large Scale Distributed Systems	3	_____
SCIL 1XXX	Science with Laboratory ¹	4	_____
STAT 2163	Introduction to Statistical Methods	3	_____
	Hours	16	

Spring

COMS 3233	Database Design and Implementation	3	_____
COMS 3703	Advanced Operating Systems	3	_____
CSEC 3223	Programming Embedded Systems	3	_____
CSEC 3233	Cyber Defense II	3	_____
FAH 1XXX	Fine Arts and Humanities Courses ¹	3	_____
Hours		15	

Senior**Fall**

CSEC 4123	Applied Cryptography	3	_____
CSEC 4143	Building Secure Software	3	_____
CSEC 4153	Human Factors in Cybersecurity	3	_____
CSEC 4233	Legal Issues in Cybersecurity	3	_____
SS 1XXX	Social Science Courses ¹	3	_____
Hours		15	

Spring

CSEC 4213	Information Systems Risk Management	3	_____
CSEC 4243	Software Security Analysis and Reverse Engineering	3	_____
CSEC 4293	Cybersecurity Capstone Project	3	_____
USHG 1XXX	U.S. History and Government ¹	3	_____
Elective		2	_____
Hours		14	
Total Hours		120	

¹ See appropriate alternatives or substitutions in "General Education Requirements (<https://catalog.atu.edu/undergraduate/general-education-requirements/>)."

² MATH 2914 Calculus I is a substitution for MATH 2243 Calculus for Business and Economics.

³ TECH 1013 Introduction to the University is a substitution for TECH 1001 Orientation to the University; Electives would reduce from 3 hours to 1 hour.

⁴ COMM 2003 Public Speaking is a substitution for COMM 2173 Business and Professional Speaking.