INFORMATION TECHNOLOGY - NETWORKING AND SECURITY, BACHELOR OF SCIENCE

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Curriculum

Course	Title	Hours	Completed
Freshman			
Fall			
COMS 1333	Web and Mobile Technologies	3	_____
CSEC 1003	Introduction to Cybersecurity	3	_____
CSEC 1113	Introduction to Networking	3	_____
ENGL 1013	Composition I [1]	3	_____
MATH 1113	College Algebra [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	_____
COMS 2703	Computer Hardware and Architecture	3	_____
ENGL 1023	Composition II [1]	3	_____
MATH 2243	Calculus for Business and Economics [4]	3	_____
SS 1XXX	Social Science Courses [1]	3	_____
	Hours	**16**	
Sophomore			
Fall			
COMS 2203	Programming Foundations II	3	_____
CSEC 2213	Network Forensics and Incident Response	3	_____
CSEC 2223	Virtualization	3	_____
MATH 2703	Discrete Mathematics	3	_____
SCIL 1XXX	Science with Laboratory [1]	4	_____
	Hours	**16**	
Spring			
COMM 2173	Business and Professional Speaking [5]	3	_____
COMS 2163 or COMS 2323	Scripting Languages or Programming in Python	3	_____
COMS 2213	Data Structures	3	_____
ENGL 2053	Technical Writing	3	_____
STAT 2163	Introduction to Statistical Methods	3	_____
	Hours	**15**	
Junior			
Fall			
COMS 3233	Database Design and Implementation	3	_____
COMS 3363	Server Administration	3	_____

CSEC 3123	Cyber Defense I	3	_____
FAH 1XXX	Fine Arts and Humanities Courses [1]	3	
Approved 3000-4000 level Elective		3	
	Hours	**15**	
Spring			
COMS 3053	Ethical Issues in Technology	3	_____
COMS 3373	Data Center Operations	3	_____
CSEC 3233	Cyber Defense II	3	_____
Approved 3000-4000 level Elective		2	
SCIL 1XXX	Science with Laboratory	4	
	Hours	**15**	
Senior			
Fall			
COMS 3523	Human Factors in Information Technology	3	_____
COMS 4913	Capstone I	3	_____
Approved 3000-4000 level Elective		3	
SS 1XXX	Social Science Courses [1]	3	
USHG 1XXX	U.S. History and Government [1]	3	
	Hours	**15**	
Spring			
COMS 4713	Networking Practicum	3	_____
COMS 4923	Capstone II	3	_____
Approved 3000-4000 level Elective		3	
FAH 1XXX	Fine Arts and Humanities Courses [1]	3	
	Hours	**12**	
	Total Hours	**120**	

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

[2] Student may waive this course by taking MATH 2243 Calculus for Business and Economics or MATH 2914 Calculus I instead and take an elective in its place.

[3] TECH 1013 Introduction to the University is a substitution for TECH 1001 Orientation to the University.

[4] MATH 2914 Calculus I is a substitution for MATH 2243 Calculus for Business and Economics.

[5] COMM 2003 Public Speaking is a substitution for COMM 2173 Business and Professional Speaking.