COMPUTER SCIENCE, BACHELOR OF SCIENCE

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Curriculum

Course	Title	Hours	Completed
Freshman			
Fall			
ENGL 1013	Composition I [1]	3	_____
COMS 1333	Web and Mobile Technologies	3	_____
CSEC 1003	Introduction to Cybersecurity	3	_____
MATH 2914	Calculus I	4	_____
TECH 1001	Orientation to the University [2]	1	_____
	Hours	**14**	
Spring			
COMS 1011 & COMS 1013	Programming Foundations I Lab and Programming Foundations I	4	_____
CSEC 1113	Introduction to Networking	3	_____
ENGL 1023	Composition II [1]	3	_____
MATH 2924	Calculus II	4	_____
	Hours	**14**	
Sophomore			
Fall			
COMM 2173	Business and Professional Speaking [3]	3	_____
COMS 2203	Programming Foundations II	3	_____
COMS 2703	Computer Hardware and Architecture	3	_____
MATH 2703	Discrete Mathematics	3	_____
SS 1XXX	Social Science Courses [1]	3	_____
	Hours	**15**	
Spring			
COMS 2163	Scripting Languages	3	_____
COMS 2213	Data Structures	3	_____
COMS 2223	Computer Organization and Programming	3	_____
ENGL 2053	Technical Writing	3	_____
SCIL 1XXX	Science with Laboratory [1]	4	_____
	Hours	**16**	
Junior			
Fall			
COMS 2323	Programming in Python	3	_____
COMS 3213	Algorithm Design and Analysis	3	_____
COMS 3703	Advanced Operating Systems	3	_____
FAH 1XXX	Fine Arts and Humanities Courses [1]	3	_____
Approved Elective (3000-4000 level)		3	
	Hours	**15**	
Spring			
COMS 3053	Ethical Issues in Technology	3	_____

COMS 3233	Database Design and Implementation	3	_____
COMS 3313	Software Engineering	3	_____
SCIL 1XXX	Science with Laboratory [1]	4	_____
Approved Elective (3000-4000 level)		3	
	Hours	**16**	
Senior			
Fall			
COMS 4103	Organization of Programming Languages	3	_____
COMS 4913	Capstone I	3	_____
FAH 1XXX	Fine Arts and Humanities Courses [1]	3	_____
STAT 3153	Applied Statistics	3	_____
USHG 1XXX	U.S. History and Government [1]	3	_____
	Hours	**15**	
Spring			
COMS 4413	Parallel and Distributed Computing	3	_____
COMS 4923	Capstone II	3	_____
MATH 4003	Linear Algebra I	3	_____
SS 1XXX	Social Science Courses [1]	3	_____
Approved Elective (3000-4000 level)		3	
	Hours	**15**	
	Total Hours	**120**	

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

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

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