

College of Computer, Mathematical and Natural Sciences

Comp. Sci Cyk	persecurity Track Effective Fall 202	24	This is a curriculum tracking sheet, not an official audit
Name		UID_	
Date Entered Major	Second degree/major		Is CMNS first major? Y/N

	General Educati	on Requirements		
	Fundame	ntal Studies		
Req	uirement	Course	Credits	Completed?
AW	Academic Writing (before 30 credits)		3	
PW	Professional Writing (after 60 credits)		3	
ОС	Oral Communication		3	
	Distributi	ive Studies		
Req	uirement	Course	Credits	Completed?
NL	Natural Science with Lab		4	
NS	Natural Science		3 or 4	
HS	History and Social Sciences		3	
HS	History and Social Sciences		3	
HU	Humanities		3	
HU	Humanities		3	
SP	Scholarship in Practice (non-major)		3	
SP	Scholarship in Practice (non-major)		3	
	Big Q	uestion		
	Overlap with Distributive	Studies and/or Big Question		
Req	uirement	Course	Credits	Completed?
IS	Big Question			
IS	Big Question			
	Dive	ersity		
	Can overlap with Distribu	tive Studies or Big Question		
Req	uirement	Course	Credits	Completed?
UP	Understanding Plural Societies			
UP or CC	Understanding Plural Societies or Cultural Competence			

Gen Ed Mathematics (MA) and Analytic Reasoning (AR) are satisfied by major requirements.

Students must complete a minimum of 12 credit hours of 300 - 400 level courses in one discipline outside of Computer Science. No course that is in, or cross-listed as, CMSC may be counted in this requirement. Only 1 independent study or experiential learning course may be used. Students who are pursuing a minor or a second major can use those credits in this area. Consult with your academic advisor to ensure each course you plan to take will satisfy this area. | Course | Credits | Completed? |

Elective Credits				
Students must take enough elective courses in any discipline(s) they choose to reach the total number of 120 credits required for graduation. Students who are pursuing a minor or a second major can use those credits in this area.				
Credits	Completed?			
	ng a minor o			

Major Requirements Lower Level Requirements (Must pass with a grade of C- or higher)			
Calculus I	MATH 140	4	
Calculus II	MATH 141	4	
Object-Oriented Programming I	CMSC 131 or	1	
Programming with Purpose I: Data-Centric Computing	CMSC 141	4	
Object-Oriented Programming II	CMSC 132 or	4	
Programming with Purpose II: Data Structures and Algori	CMSC 142		
Introduction to Computer Systems	CMSC 216	4	
Discrete Structures	CMSC 250	4	
Organization of Programming Languages	CMSC 330	3	
Algorithms	CMSC 351	3	
STAT 4xx with MATH 141 prerequisite	STAT 4XX	3	
MATH/AMSC/STAT xxx with MATH 141 prerequisite		3 or 4	

Upper Level Courses (Must pass with a grade of C- or higher)				
Students must fulfill their computer science upper level course requirements from at least 3 areas				
Required: Course Credits Con				
Computer and Network Security	CMSC 414	3		
Cryptology	CMSC 456	3		

Choose four courses from:			
Computer Systems Architecture	CMSC 411	3	
Operating Systems *	CMSC 412	4	
Computer Networks	CMSC 417	3	
Introduction to Compilers	CMSC 430	3	
Programming Language Technologies and Paradigms	CMSC 433	3	
Design and Analysis of Computer Algorithms	CMSC 451	3	

^{*} Indicates course has unique prerequisites

Upper Level Elective Courses (Must pass with a grade of C- or higher)				
Select 3 credits from CMSC 300- or 400-level courses (not eligible CMSC330 & CMSC351)				
Title		Course	Credits	Completed?

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Computer Science - Cybersecurity Track Effective Fall 2024

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Year 1	Fall		
	Course	Credit	Grade
Gateway & Benchmark 1	CMSC131 or CMSC141	4	
Requirements: CMSC131, CMSC132, and MATH140 must be completed with a C- or higher by 45 credits (AP/IB credits excluded)	MATH140 (FSMA, FSAR)	4	
	ENGL101 (FSAW)	3	
	Oral Comm (FSOC)	3	
	CMSC100	1	
	Total	15	

Year 2	Fall	Fall		
	Course	Credit	Grade	
Benchmark 2	CMSC216	4		
Requirements: CMSC330, CMSC351, and MATH or STAT must be completed with a C- or higher by 75 credits (AP/IB credits excluded)	CMSC250	4		
	MATH/STAT/AMSC	3 or 4		
	Scholarship in Practice (DSSP)*	3		
	Total	14 or 15		

Year 3	Fall		
	Course	Credit	Grade
	CMSC414	3	
	CMSC456	3	
	History & Social Sciences (DSHS)*	3	
	Humanities (DSHU)*	3	
	Big Question (SCIS)	3	
	Total	15	

Year 4	Fall		
	Course	Credit	Grade
	CMSC4XX	3	
	CMSC4XX	3	
	UL Concentration	3	
	UL Concentration	3	
	Plural Societies (DVUP)*	3	
	Total	15	

Spring			
Course	Credit	Grade	
CMSC132 or CMSC142	4		
MATH141	4		
Natural Science w/ Lab (DSNL)	4		
History & Social Science (DSHS)*	3		
Total	15		

Spring			
Course	Credit	Grade	
CMSC330	3		
CMSC351	3		
STAT4XX	3		
Natural Science (DSNS)	3		
Humanities (DSHU)*	3		
Total	15		

Spring			
Course	Credit	Grade	
CMSC4XX	3		
CMSC4XX	3		
ENGL39X (FSPW)**	3		
Scholarship in Practice (DSSP)*	3		
Big Question (SCIS)	3		
Total	15		

Spring			
Course	Credit	Grade	
CMSC Elective	3		
UL Concentration	3		
UL Concentration	3		
Plural Societies (DVUP) or Cultural Competence (DVCC)*	3		
Elective	3 or 4		
Total	15 or 16		

^{*}All students must complete two Distributive Studies courses that are approved for Big Question courses. The Understanding Plural Societies (UP) and Cultural Competence (CC) courses may also fulfill Distributive Studies categories.

**Students may take any Professional Writing course to fulfill this requirement.