



**MAJOR ACADEMIC PLAN (MAP)  
CYBER OPERATIONS  
EFFECTIVE CATALOG YEAR 2017-18**



**Sample Schedule (subject to course rotations)**

FALL		SPRING	
First Semester	CR	Second Semester	CR
Written Communication (ENGL 101)	3	CSC 250 Computer Science II- <b>CSC 150</b>	3
CSC 105 Intro to Computers	3	CSC 245 Info Security Fundamentals	3
Oral Communication (SPCM 101 or SPCM 215)	3	Social Science (2 disciplines)	3
CSC 150 Computer Science I	3	CSC 363 Hardware, Virtualization & Data Comm.	3
Natural Science	3	Arts and Humanities (2 disciplines or foreign lang.)	3
	<b>15</b>		<b>15</b>

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Third Semester	CR	Fourth Semester	CR
<b>CIS 275 Web Application Programming I- CSC 150</b>	3	<b>CIS 375 Web App Programming II CIS 275</b>	3
CSC 383 Networking I	3	<b>CSC 385 Networking II- CIS 383</b>	3
Natural Science	3	CSC 328 Operating Environments	3
CSC 300 Data Structures- <b>CSC 250</b>	3	MATH 102 College Algebra	3
CIS 332 Structured Systems Analysis & Design- <b>CSC 150</b>	3	Written Communication (ENGL 201)	3
	<b>15</b>		<b>15</b>

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Fifth Semester	CR	Sixth Semester	CR
CSC 314 Assembly Language- <b>CSC 250</b>	3	Arts and Humanities (2 disciplines or foreign lang.)	3
<b>CSC 436 Off Network Security- CSC 328 and CIS 385</b>	3	<b>CSC 456 Operating Systems CSC 300 and CSC 314</b>	3
<b>CSC 234 Web Software Security</b>	3	Social Science (2 disciplines)	3
MATH 201 Intro to Discrete Math	3	<b>CSC 438 Defensive Network Security- Cis 385</b>	3
CIS/CSC Elective (300-400 lvl or MATH 123 or above)	3	CIS/CSC elective (300-400 lvl or MATH 123 or above)	3
	<b>15</b>		<b>15</b>

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Seventh Semester	CR	Eighth Semester	CR
CIS 484 Database Mgmt Systems- <b>CSC 150 &amp; 24 credits</b>	3	CIS/CSC elective (300-400 lvl or MATH 123 or above)	3
CSC 444 Reverse Engineering- <b>CSC 314</b>	3	<b>CSC 437 Survey of Enterprise Syst- CIS 385 &amp; CSC 363</b>	3
General Elective	3	<b>CSC 432 Malware Analysis- CSC 314</b>	3
General Elective	3	General Elective	3
<b>CSC 420 Cellular &amp; Mobile Communications- CIS 383</b>	3	General Elective	3
	<b>15</b>		<b>15</b>

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<b>Fall Only:</b>	<b>Spring Only:</b>	<b>*Typical Core Course Summer Offerings</b>
CIS275	CIS375	CIS 332
CSC420	CSC 385- offered in summer also	CSC 385
CSC234	CSC 456- offered in summer also	CIS 484
CSC436	CSC438	CSC 245
CSC482	CSC437	CSC 250
	CSC432	CSC 314
		CSC 328
		CSC 363
		CSC 456
		MATH 201
*Summer offerings are subject to change		