



College of Engineering and Computing  
 SAMPLE 16 MONTH CURRICULUM | 2017-2018 CATALOG  
 Master of Science — Computer Science  
 Information Assurance and Cybersecurity Concentration

First Year								
Fall			Winter			Summer		
Course	Credits	Frequency	Course	Credits	Frequency	Course	Credits	Frequency
CISC 640 Operating Systems	3	FS	CISC 610 Programming Languages	3	FW	CISC 615 Design and Analysis of Algorithms	3	S
CISC 680 Software Engineering	3	FS	Major Concentration Course/Elective	3		Major Concentration Course/Elective	3	
Elective-CISC 650 pre req. needed	3	FW	Major Concentration Course/Elective	3		Major Concentration Course/Elective	3	
<b>Total Credits</b>	<b>9</b>		<b>Total Credits</b>	<b>9</b>		<b>Total Credits</b>	<b>9</b>	

Second Year		
Course	Credits	Frequency
Major Concentration Course/Elective	3	
Major Concentration Course/Elective	3	
Major Concentration Course/Elective	3	
<b>Total Credits</b>	<b>9</b>	

**TOTAL CREDITS: 36**

Elective Options								
Course	Credits	Frequency	Course	Credits	Frequency	Course	Credits	Frequency
CSIC 662 Data Mining and Knowledge			CISC 664 Information Retrieval and Web Search			MMIS 671 Fundamentals of Analytics and		
Discovery in Databases	3	FS	Engine Technology	3	F	Business Intelligence	3	FW
CISC 631 Theory of Computation	3	W	CISC 684 Software Testing and Verification	3	W	CISC 682 Software Requirements Engineering	3	F
ISEC 620 Applied Cryptography	3	F	CISC 685 Interaction Design	3	F	CISC 670 Artificial Intelligence	3	F
CISC 681 Computer Graphics	3	W	CISC 665 Distributed Systems	3	W	ISEC 660 Advanced Network Security	3	W
CISC 630 Compilers	3	S	CISC 672 Data Visualization	3	W	ISEC 600 Secure Computer Systems	3	FS
ISEC 640 Database Security	3	FS	ISEC 650 Computr and Network Forensics	3	FW	CISC 683 Object-Oriented Design	3	F
CISC 660 Database Management Systems	3	W	CISC 647 Computer Architecture	3	S	CISC 650 Computer Networks	3	FW

\*This sample plan is subject to change.