



College of Engineering and Computing
 SAMPLE TWO YEAR CURRICULUM | 2017-2018 CATALOG
 Master of Science — Computer Science
 Real-World Computing 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	Elective-CISC 650 pre req. needed	3	FW	Elective	3		
Total Credits	6		Total Credits	6		Total Credits	6		
Second Year									
Fall			Winter				Summer		
Course	Credits	Frequency	Course	Credits	Frequency	Course	Credits	Frequency	
CISC 670 Artificial Intelligence	3	F	CSIC 665 Distributed Systems	3	W	Elective	3		
Elective	3		CISC 681 Computer Graphics	3	W	Elective	3		
Total Credits	6		Total Credits	6		Total Credits	6		
TOTAL CREDITS: 36									
Elective Options									
Course	Credits	Frequency	Course	Credits	Frequency	Course	Credits	Frequency	
CISC 664 Information Retrieval and Web Search Engine Technology	3	F	MMIS 671 Fundamentals of Analytics and Business Intelligence	3	FW	CISC 662 Data Mining and Knowledge Discovery in Databases	3	FS	
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 647 Computer Architecture	3	S	
CISC 650 Computer Networks	3	FW	CISC 660 Database Management 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	

*This plan is subject to change.