



College of Engineering and Computing
SAMPLE FOUR YEAR CURRICULUM | 2018-2019 CATALOG
Bachelor of Science — Computer Science

Freshman Year				
Fall		Winter		
<u>Course</u>	<u>Credits</u>	<u>Course</u>	<u>Credits</u>	
UNIV 1000: First Year Seminar	3	Open Written Communication	3	
CSIS 1800 Introduction to Computer and Info. Sciences	3	CSIS 3101 Advanced Computer Programming	4	
MATH 2100 Calculus I	4	CSIS 2050 Discrete Mathematics	4	
CSIS 2101 Fundamentals of Computer Programming	4	Open Elective	3	
Total Credits	14	Total Credits	14	
Sophomore Year				
Fall		Winter		
<u>Course</u>	<u>Credits</u>	<u>Course</u>	<u>Credits</u>	
CSIS 3200 Organization of Programming Language	3	Open Written Communication	3	
CSIS 3400 Data Structures	4	MATH 3300 Introductory Linear Algebra	3	
CSIS 3500 Networks and Data Communication	3	CSIS 3051 Computer Organization & Architecture	4	
MATH 2200 Calculus II	4	CSIS 3750 Software Engineering	4	
Total Credits	14	Total Credits	14	
Junior Year				
Fall		Winter		
<u>Course</u>	<u>Credits</u>	<u>Course</u>	<u>Credits</u>	
Open Social & Behavioral Sciences	3	CSIS 3460 Object Oriented Design	3	
CSIS 3023 Legal and Ethical Aspects of Computers	3	Major Elective	3	
CSIS 3810 Operating Systems Concepts	3	Science Course (BIOL, CHEM, ENVS, MBIO, or PHYS)	4	
PHYS 2400 Physics I/Lab	4	Open Arts & Humanities	3	
Open Elective	3	Open Elective	3	
Total Credits	16	Total Credits	16	
Senior Year				
Fall		Winter		
<u>Course</u>	<u>Credits</u>	<u>Course</u>	<u>Credits</u>	
Open Social & Behavioral Sciences	3	CSIS 4610 Design and Analysis Algorithms	3	
MATH 4500 Probability and Statistics	3	CSIS 4903 Capstone Course or CSIS 4953 Internship	3	
CSIS 3610 Numerical Analysis	4	Major Elective	3	
Major Elective	3	Open Elective	3	
Open Arts & Humanities	3	Open Elective	4	
Total Credits	16	Total Credits	16	
TOTAL CREDITS: 120				