

Computer Science

	Students will be able to write correct and robust software.	Students will use well-known algorithms and computational techniques to solve problems.	Students will analyze the interaction between hardware and software.	Students will be able to apply their technical knowledge and critical thinking to solve problems. (CC: CT)	Students will be able to speak about their work with precision, clarity and organization. (CC: OC)	Students will be able to write about their work with precision, clarity and organization. (CC: WC)	Students will be able to identify, locate, evaluate, and effectively and responsibly use and cite information for the task at hand. (CC: IL)	Students will collaborate effectively in teams.	Students will be able to understand and create arguments supported by quantitative evidence. (CC: QR)	Students will understand the professional, ethical and social issues and responsibilities with the implementation and use of technology.	Graduates will be prepared for careers that use computer science in business, industry, government and the non-profit sector; and graduate study in fields related to computer science.
BUS 3013 - Administrative Communication					R	R	R	R			
CSC 1043 - Introduction to Computer Programming	I		I	I	I	I	I		I	I	
CSC 1043L - Introduction to Computer Programming Lab	I		I	I	I	I	I	I	I	I	
CSC 1054 - Objects and Elementary Data Structures	R		R	R	I	I	I		R	R	
CSC 1054L - Objects and Elementary Data Structures Lab	R		R	R	I	I	I	I	R	R	
CSC 2054 - Data Structures and Algorithms	R	R	R	R	I	I	I			R	
CSC 2054L - Data Structures and Algorithms Lab	R	R	R	R	I	I	I	R		R	
CSC 3002 - UNIX and Python Scripting for Computational Science	R			R							
CSC 3011 - Machine Learning and Multivariate Modeling in R	R			R					M		
CSC 3014 - Operating Systems			R	R				R		R	
CSC 3021 - Computational Tools		R		R							
CSC 3023 - Software Engineering	M			R				M			
CSC 3031 - Data Visualization and Communication with R									M		
CSC 3094 - Programming Languages	R	M	M								
CSC 3102 - Security+ Exam Preparation			R	R							
CSC 3112 - Network+ Exam Preparation			R	R							
CSC 4012 - Topics in Computer Science				R					R		
CSC 4054 - Computer Architecture and Assembly Language			M	M				R		R	
CSC 4081 - Senior Seminar in Computer Science				M	M	M	M			M	
CSC 4091 - Independent Studies in Computer Science	M	M		M							
CSC 4093 - Software Project	M		M	M	M	M		M	M		
CSC 4102 - Independent Research in Computer Science I				M	M	M	M				
CSC 4121 - Independent Research in Computer Science II				M	M	M	M				
CSC 4133 - Service Learning in Computer Science				M	M	M	M	M		M	
EGR 2024 - Circuit Analysis		R		R							
EGR 2024L - Circuit Analysis Lab		R		R	R	R		R			
EGR 3053 - Analog Electronics		R		R							
EGR 3053L - Analog Electronics Lab		R		R	R	R		R			
EGR 3093 - Digital Electronics		R		R							
EGR 3093L - Digital Electronics Lab		R		R	R	R		R			
EGR 4042 - Embedded Systems and Robotics		M		M							
EGR 4042L - Embedded Systems and Robotics Lab		M		M	M	M		M			
EGR 4103 - Electrical Signals and Systems		M		M							
HON 4098 - Honors Project I				M	M	M	M				
HON 4099 - Honors Project II				M	M	M	M				
ISS 3042 - Project Management and Quality Assurance				R	R	R	R	R		M	
ISS 3073 - Networking and Security			R	R							
ISS 3092 - Topics in Cyber Security				R	R	R	R	R			
ISS 4003 - Information and Computer Security				M	R	R	R				
ISS 4012 - Topics in Information Security				R	R	R	R	R			
ISS 4014 - Data Base Systems and Web Integration	M		R	M				M	M		
ISS 4072 - Internship in Information Systems				M				R		M	
MTH 1064 - Calculus I		I			I	I	I		I	I	
MTH 1064L - Calculus I Lab		I			I	I	I	I	I	I	
MTH 1074 - Calculus II		I			I	I	I		R	I	
MTH 1074L - Calculus II Lab		I			I	I	I	I	R	I	
MTH 2003 - Introduction to Statistics				I					R		
MTH 2033 - Linear Algebra		R		I					R		
MTH 2074 - Calculus III				R	I	I	I		R		
MTH 3043 - Discrete Mathematics		M							R		
MTH 3063 - Calculus Based Statistics With R				R					R		
MTH 3073 - Mathematical Modeling				R					M		
MTH 3083 - Mathematical Probability and Statistics				R					R		