

B. S. Cybersecurity (CyS) Curriculum Map (effective Fall 2022 and after)

The curriculum map provides insight and direction for students to graduate in four years. With the assistance of a student’s academic advisor and department chairperson, the map will provide a guide between what should be taken term by term and where the student is with respect to grades received in courses. Milestones are noted on the map and serve as hints regarding what courses and/or activities must be completed that term. Please note that every term does not have a milestone. Prerequisites are also noted providing the student and his/her advisor a true indication of where the student falls within the curriculum. In this particular document, key prerequisites are listed that can prevent a student from moving along in the curriculum if not met. Also, note that the Department of Computer and Information Sciences (CIS) only considers the grade of “C” or higher as meeting the prerequisite. A grade of “C” or better is required in each course taken for credit for a major or a minor in cybersecurity.

Students completing any of the computing programs will be prepared for employment in government and industry, and for graduate studies in a computing-related discipline.

CIS Cybersecurity Curriculum Guide		Milestone and/or Prerequisite
Term 1	Credits	Term 1 Milestones and/or Prerequisites
ENC 1101 Communicative Skills I	3	
CNT 2000* Computer Systems and Network Fundamentals	3	
MAC 1147 Pre-calculus	3	
PSY 2012 Intro to Psychology	3	
ISC 1058 Scientist Life Skills or SLS 1101 First year Exp	2	
<i>Total Term 1 Credits</i>	14	
Term 2	Credits	Term 2 Milestones and/or Prerequisites
ENC 1102 Communicative Skills II	3	
BSC 1005 Biological Science w/ Lab*	4	*May select another approved laboratory science course to satisfy General Education and major requirements
CIS 1920 Professional Development I	2	
COP 3014C Fundamentals of Programming*	4	*Must successfully complete MAC 1105 with C or better
STA 2023 Probability and Statistics I	3	
<i>Total Term 2 Credits</i>	16	
(Summer Term)		
AFA 3104The African-American Experience	3	
Humanities Elective	3	
Humanities Elective	3	
<i>Total Term Summer Credits</i>	9	
Term 3	Credits	Term 3 Milestones and/or Prerequisites
ENC 3243 Technical Writing	3	
COT 2104 Mathematics for Computing*	3	*Must successfully complete MAC 1105 & COP 3014C
PSC 1121 Physical Science w/Lab**	4	**May select another approved laboratory science course to satisfy General Education and major requirements
CIS 4360 Introduction to Security	3	
SPC 2608 Public Speaking	3	
<i>Total Term 3 Credits</i>	16	
Term 4	Credits	Term 4 Milestones and/or Prerequisites
ECO 2013 Principles of Economics I	3	
CNT 4504 Data Comm & Organizational Network*	3	*Must successfully complete CNT 2000
COP 3366 Introduction to C#	3	**Must successfully complete COP 3014C
CIS 4250 Computer Ethics and Professional Responsibility	3	
COP 3710 Database Management System**	3	
<i>Total Term 4 Credits</i>	15	

Term 5	Credits	Term 5 Milestones and/or Prerequisites
CIS 4920 Professional Development IV*	3	*CIS 1920/Instructor's consent
CNT 4603 Systems Administration**	3	**CNT 2000
CIS 3615 Secure Software Development*	3	Two programming courses (COP 3014C COP 3366 or)
CIS 4385C Digital Forensics	3	
<i>Total Term 5 Credits</i>	12	
Term 6	Credits	Term 6 Milestones and/or Prerequisites
CNT 4406 Network Security	3	
CIS 4361 Applied Security	3	
CIS 4201 CyberLaws and Legal Aspects of Cybersecurity	3	
Approved Elective	3	
<i>Total Term 6 Credits</i>	12	
Term 7	Credits	Term 7 Milestones and/or Prerequisites
CIS 4368 Database Security	3	
CIS 4512 Information Security and Risk Management	3	
Approved Elective	3	#Must be an upper division CIS course that is not
General Elective	3	required by degree program and does not have the
		CGS prefix. See advisor for list of approved major
		electives.
<i>Total Term 7 Credits</i>	12	
Term 8	Credits	Term 8 Milestones and/or Prerequisites
CIS 4950 Cyber Capstone	3	
CIS 4512 Cyber War Games	3	
CIS 4204 Ethical Hacking and Penetration Testing	3	
General Elective	3	
Major Elective#	3	#Must be an upper division CIS course that is not
		required by degree program and does not have the
		CGS prefix. See advisor for list of approved major
		electives.
		Must complete department exit survey
<i>Total Term 8 Credits</i>	14	
Total Credits	120	