CYBERSECURITY

Bachelor of Science (BS)

This is a guide based on the 2023-2024 Undergraduate Bulletin and is subject to change. The time it takes to earn a degree will vary based on several factors such as dual enrollment, remediation, and summer enrollment. Students will meet with an academic advisor each semester and use Degree Works to monitor their individual progress.

CURRICULUM CHECKLIST

78 Hour Major – No Minor Required
___ BA252 Business Communication (2)
___ CS101 Intro to Computer Programming (3)
___ CS155 Computer Science I (4)
___ CS245 Discrete Structures I (3)
___ CS265 Computer Science II (4)
___ CS288 Computer Systems & Assembly Language (4)
___ CS351 C & the Posix Environment (4)
___ CS380 Computer Operating Systems (3)
___ CS440 Database (3)
___ CS445 Software Engineering I (3)
___ CS499 Capstone Experience (3)
___ CS533 Mobile Computing (3)
___ CY201 introduction to Cybersecurity (3)
___ CY310 Information Security & Assurance (3)
___ CY320 Information Security in System Administration (3)
___ CY410 Web Application Security (3)
___ CY420 Computer Forensics (3)
___ CY440 Cloud Computing (3)
___ CY450 Introduction to Cyber Operations (3)
___ IS245 Web Development & Security (3)
___ IS299 Security in Data Protocols (3)
___ MA223 Elementary Probability & Statistics (3)
___ MA464 Mathematical Cryptography (3)
___ TN275 Introduction to Networks (3)
Choose 3 hours:
___ CS480 Data Communications (3)
___ TN375 Routing & Switching Essentials (3)

General Education Requirements – some requirements may be fulfilled by coursework in major program
- Social and Behavioral Sciences – 6 hours
- Constitution Requirement – 3 hours
- Written Communication – 6 hours
- Oral Communication – 3 hours
- Natural Sciences – 7 hours (from two disciplines, one to include a lab)
- Mathematics – 3 hours
- Humanities & Fine Arts – 9 hours (from at least two disciplines)
- Additional requirements – 5 hours (to include UI100 for native students)
- Civics examination

SAMPLE FOUR-YEAR PLAN

	Fall Semester		Spring Semester	
	Course #	Hrs	Course #	Hrs
FIRST YEAR	UI100	1	BA252	2
	EN100	3	CS155	4
	CS101	3	CS245	3
	MA116*	3	IS245	3
	General Education	3	MA223	3
	General Education	3		
	Total	**16**	**Total**	**15**
SECOND YEAR	CS265	4	CS380	3
	CS288	4	CY201	3
	CS351	4	IS299	3
	TN275	3	MA464	3
			General Education	3
	Total	**15**	**Total**	**15**
THIRD YEAR	CS480 or TN375	3	CS533	3
	CY310	3	CY410	3
	CY320	3	CY420	3
	General Education	3	General Education	3-4
	General Education	3	General Education	3
	Total	**15**	**Total**	**15-16**
FOURTH YEAR	CS440	3	CS499	3
	CS445	3	CY450	3
	CY440	3	General Education	3
	General Education	3	General Education	3
	General Education	3-4	General Education	3
	Total	**15-16**	**Total**	**15**

A "Milestone" signifies a significant stage for a student in the completion of a degree.

A minimum 2.0 GPA in the major is required to graduate with a Bachelor of Science degree.

Degree requirements for all students: a minimum of 120 credit hours, completion of the General Education program, and completion of 39 senior division hours (300-599). Refer to the Undergraduate Bulletin or Degree Works for additional graduation requirements for your program.

NOTE: The Bachelor of Science with a major in Cybersecurity is accredited by the Computing Accreditation Commission (CAC) Accreditation Commission(s) of ABET, https://www.abet.org, under the General Criteria and the Cybersecurity Program Criteria.

Revised 10/17/2023

2023-2024 *degree map*