

# CYBERSECURITY

## Bachelor of Science (BS)

This is a guide based on the 2026-2027 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 (3)
- \_\_\_ CS245 Discrete Structures I (3)
- \_\_\_ CS288 Computer Systems & Assembly Language (3)
- \_\_\_ CS351 C & the Posix Environment (3)
- \_\_\_ 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 Access Control (3)
- \_\_\_ CY410 Web Application Security (3)
- \_\_\_ CY420 Computer Forensics (3)
- \_\_\_ CY440 Cloud Computing (3)
- \_\_\_ CY450 Introduction to Cyber Operations (3)
- \_\_\_ CY530 Computer Network Security & Defense (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 7 hours:

- \_\_\_ CS480 Data Communications (3)
- \_\_\_ CS485 Internship in Computer Science (3)
- \_\_\_ CS491 Independent Study (1)
- \_\_\_ CS495 Senior Seminar (1)
- \_\_\_ CY453 Special Topics in Cybersecurity (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
<b>FIRST YEAR</b>	UI100	1	BA252	2
	EN100	3	CS155	3
	CS101	3	CS245	3
	MA116*	3	IS245	3
	General Education	3	MA223	3
<b>Total</b>	<b>13</b>	<b>Total</b>	<b>14</b>	
<b>SECOND YEAR</b>	CS288	3	CS380	3
	CS351	3	CY201	3
	TN275	3	IS299	3
	General Education	3	MA464	3
	General Education	3	General Education	3
<b>Total</b>	<b>15</b>	<b>Total</b>	<b>15</b>	
<b>THIRD YEAR</b>	CS/TN elective	4	CS440	3
	CY310	3	CS533	3
	CY320	3	CY420	3
	General Education	3	General Education	3-4
	General Education	3	General Education	3
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>15-16</b>	
<b>FOURTH YEAR</b>	CS445	3	CS/TN elective	3
	CY410	3	CS499	3
	CY440	3	CY450	3
	CY530	3	General Education	3
	General Education	3-4	General Education	3-4
<b>Total</b>	<b>15-16</b>	<b>Total</b>	<b>15-16</b>	

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  
5/15/2026

# DEGREE MAP 2026-2027

