

# COMPUTER INFORMATION SYSTEMS

## Bachelor of Science (BS)

This is a guide based on the 2025-2026 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

##### Core Courses:

- \_\_\_ CS101 Introduction to Computer Programming (3)
- \_\_\_ CS155 Computer Science I (3)
- \_\_\_ CS265 Computer Science II (3)
- \_\_\_ CS300 Computer Science III (3)
- \_\_\_ CS433 Data Analytics (3)
- \_\_\_ CS440 Database (3)
- \_\_\_ CS445 Software Engineering (3)
- \_\_\_ CS499 Capstone Experience (3)
- \_\_\_ CY201 Introduction to Cybersecurity (3)
- \_\_\_ IS145 Introduction to Web Development (3)
- \_\_\_ IS175 Information Systems I (3)
- \_\_\_ IS245 Web Development & Security (3)
- \_\_\_ IS275 Computer Information Systems II (3)
- \_\_\_ IS299 Security in Data Protocols (3)
- \_\_\_ IS340 Information Technology (3)
- \_\_\_ IS360 Mobile Application Development (3)
- \_\_\_ IS420 Human Computer Interaction (3)
- \_\_\_ IS440 Web Design for Electronic Commerce (3)
- \_\_\_ IS448 IS/IT Project Management (3)
- \_\_\_ IS465 Management Support Systems (3)
- \_\_\_ IU315 Ethics in the Cyber World (3)
- \_\_\_ MA223 Elementary Probability & Statistics (3)

##### Choose One Track:

#### Artificial Intelligence & Gaming – Choose 12 hours:

- \_\_\_ CS173 Introduction to Game Development (3)
- \_\_\_ CS2xx Character Development & Storycrafting (3)
- \_\_\_ CS373 Game Programming I (3)
- \_\_\_ CS453 Machine Learning (3)
- \_\_\_ CS473 Game Programming II (3)
- \_\_\_ CS485 Internship in Computer Science (3)
- \_\_\_ CS505 Data Mining (3)
- \_\_\_ CS506 Cloud Computing (3)
- \_\_\_ CS533 Mobile Computing (3)
- \_\_\_ CS575 Advanced Web Development (3)
- \_\_\_ CS591 Advanced Artificial Intelligence (3)

#### Cybersecurity – Choose 12 hours:

- \_\_\_ CS351 C & the Posix Environment (3)
- \_\_\_ CS480 Data Communications (3)
- \_\_\_ CS485 Internship in Computer Science (3)
- \_\_\_ CY101 Fundamentals of Cybersecurity (3)
- \_\_\_ CY320 Access Control (3)
- \_\_\_ CY410 Web Application Security (3)
- \_\_\_ CY450 Introduction to Cyber Operations (3)
- \_\_\_ CY530 Computer Network Security & Defense (3)
- \_\_\_ TN275 Introduction to Networks (3)
- \_\_\_ TN375 Routing & Switching Essentials (3)

#### Healthcare & Business Administration – Choose 12 hours:

- \_\_\_ AC221 Principles of Accounting I (3)
- \_\_\_ CS485 Internship in Computer Science (3)
- \_\_\_ EC225 Principles of Macroeconomics (3)
- \_\_\_ ER361 Principles of Entrepreneurship (3)
- \_\_\_ HA510 Healthcare Performance Improvement (3)
- \_\_\_ HA520 Healthcare Quality & Value (3)
- \_\_\_ HA540 Healthcare Informatics (3)
- \_\_\_ HA545 Healthcare Database Systems (3)
- \_\_\_ HA556 Healthcare Topics (3)
- \_\_\_ HA557 Healthcare Law & Regulatory Compliance (3)
- \_\_\_ HA586 Healthcare Strategy & Marketing (3)
- \_\_\_ IS575 IS/IT Strategy & Management (3)
- \_\_\_ MG301 Principles of Management (3)
- \_\_\_ MG362 Management Skills (3)
- \_\_\_ MI375 Management Information Systems. (3)
- \_\_\_ MK301 Principles of Marketing (3)

NOTE: A minimum grade of C or better is required in each core course.

### SAMPLE FOUR-YEAR PLAN

	Fall Semester		Spring Semester	
	Course #	Hrs	Course #	Hrs
<b>FIRST YEAR</b>	UI100	1	CS155	3
	EN100	3	IS145	3
	IS175	3	IS275	3
	CS101	3	IU315	3
	MA116*	3	General Education**	3
	<b>Total</b>	<b>13</b>	<b>Total</b>	<b>15</b>
<b>SECOND YEAR</b>	CS265	3	CS300	3
	IS245	3	CS433	3
	IS340	3	IS299	3
	MA223	3	General Education	3
	Track course	3	General Education	3
	<b>Total</b>	<b>15</b>	<b>Total</b>	<b>15</b>
<b>THIRD YEAR</b>	CS440	3	IS360	3
	CY201	3	IS420	3
	Track course	3	IS440	3
	General Education	3	General Education	3
	General Education	3	General Education	3
	<b>Total</b>	<b>15</b>	<b>Total</b>	<b>15</b>
<b>FOURTH YEAR</b>	CS445	3	IS465	3
	IS448	3	CS499	3
	Track course	4	Track course	3
	General Education	3	General Education	3
	General Education	3	General Education	2
			Elective	2
	<b>Total</b>	<b>16</b>	<b>Total</b>	<b>16</b>

\*MA116 is a prerequisite to MA223.

\*\*If Business Administration track is chosen, take EC215 as prerequisite to EC225.

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.

**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

Revised  
2/28/2025



# 2025-2026 degree map

