

COMPUTER INFORMATION SYSTEMS

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

Core Courses:

- ___ CS101 Introduction to Computer Programming (3)
- ___ CS155 Computer Science I (4)
- ___ CS265 Computer Science II (4)
- ___ CS300 Computer Science III (3)
- ___ CS440 Database (3)
- ___ CS445 Software Engineering (3)
- ___ CS495 Senior Seminar (1)
- ___ CS499 Capstone Experience (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)
- ___ IS575 IS/IT Strategy and Management (3)
- ___ IU315 Ethics in the Cyber World (3)
- ___ MA223 Elementary Probability & Statistics (3)

Choose One Track:

Artificial Intelligence – Choose 12 hours:

- ___ CS433 Data Analytics (3)
- ___ CS453 Machine Learning (3)
- ___ CS505 Data Mining (3)
- ___ CS506 Cloud Computing (3)
- ___ CS533 Mobile Computing (3)
- ___ CS575 Advanced Web Development (3)
- ___ CS591 Advanced Artificial Intelligence (3)

Business Administration – Choose 12 hours:

- ___ AC221 Principles of Accounting I (3)
- ___ EC225 Principles of Macroeconomics (3)
- ___ ER361 Principles of Entrepreneurship (3)
- ___ MG301 Principles of Management (3)
- ___ MG362 Management Skills (3)
- ___ MI375 Management Information Systems (3)
- ___ MK301 Principles of Marketing (3)

Cybersecurity – Choose 12 hours:

- ___ CY201 Introduction to Cybersecurity (3)
- ___ CY320 Information Security in System Administration (3)
- ___ CY410 Web Application Security (3)
- ___ CY530 Computer Network Security & Defense (3)
- ___ TN275 Introduction to Networks (3)

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

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 | CS155 | 4 |
| | EN100 | 3 | IS145 | 3 |
| | IS175 | 3 | IS275 | 3 |
| | CS101 | 3 | IU315 | 3 |
| | MA116* | 3 | General Education** | 3 |
| | General Education | 3 | | |
| | Total | 16 | Total | 16 |
| SECOND YEAR | CS265 | 4 | CS300 | 3 |
| | IS245 | 3 | IS299 | 3 |
| | IS340 | 3 | Track course | 3 |
| | MA223 | 3 | General Education | 3 |
| | Track course | 3 | General Education | 3 |
| | Total | 16 | Total | 15 |
| THIRD YEAR | CS440 | 3 | IS360 | 3 |
| | Track course | 3 | IS420 | 3 |
| | General Education | 3 | IS440 | 3 |
| | General Education | 3 | IS465 | 3 |
| | General Education | 3 | General Education | 3 |
| | Total | 15 | Total | 15 |
| FOURTH YEAR | CS445 | 3 | CS495 | 1 |
| | IS448 | 3 | CS499 | 3 |
| | Track course | 3 | IS575 | 3 |
| | General Education | 3 | General Education | 3 |
| | General Education | 3 | General Education | 2 |
| | Total | 15 | Total | 12 |

*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.



Revised
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2023-2024 *degree map*



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