

Computer Science (B.S.)

2026-2027 catalog

Student Name: _____ **ID Number:** _____

Major Requirements

All classes must be completed with a C- grade or better. Each course may count only once toward the major. Students may apply up to 4 credits of internship toward the major. Students completing a major in Computer Science are not eligible for a minor in Computer Science.

| Term Completed/Planned | Grade | Credit | Course # | Title |
|------------------------|-------|--------|----------|-------|
|------------------------|-------|--------|----------|-------|

Complete **all of** the following

| | | | | |
|-------|-------|---|--------------------|--|
| _____ | _____ | 4 | CSC165 and 165L | Introduction to Computer Programming (Python) |
| _____ | _____ | 4 | CSC170 and 170L | Introduction to Object-Oriented Programming (Java) |
| _____ | _____ | 4 | CSC321 | Software Design and Development |
| _____ | _____ | 4 | CSC341 | Data Structures and Algorithms |

Complete **all of** the following theory courses

| | | | | |
|-------|-------|---|--------|-----------------------|
| _____ | _____ | 4 | CSC351 | Algorithms |
| _____ | _____ | 4 | CSC371 | Computer Organization |
| _____ | _____ | 4 | CSC391 | Programming Languages |

Complete **two (2)** project-based electives chosen from:

| | | | | |
|-------|-------|---|--------|-----------------------------------|
| _____ | _____ | 4 | CSC373 | Artificial Intelligence |
| _____ | _____ | 4 | CSC395 | Topics with "project" designation |
| _____ | _____ | 4 | CSC399 | Internship |
| _____ | _____ | 4 | CSC421 | Mobile Computing |
| _____ | _____ | 4 | CSC431 | Introduction to AI Robotics |
| _____ | _____ | 4 | CSC443 | Software Engineering |
| _____ | _____ | 4 | CSC461 | Intelligent Systems |
| _____ | _____ | 4 | CSC495 | Topics with "project" designation |
| _____ | _____ | 4 | MIS476 | Information Systems Projects |

Complete **one (1)** data course from:

| | | | | |
|-------|-------|---|--------|--------------------------------------|
| _____ | _____ | 4 | DST234 | Introduction to Data Science (and R) |
| _____ | _____ | 4 | DST314 | Programming for Data Science |

Complete **one (1)** elective chosen from:

| | | | | |
|-------|-------|---|---|--------------------------------------|
| _____ | _____ | 4 | Additional CSC course numbered 200 or above | |
| _____ | _____ | 4 | DST234 | Introduction to Data Science (and R) |
| _____ | _____ | 4 | MIS270 | Data Management for Business |
| _____ | _____ | 4 | PHY361 | Electronics |

Complete **two (2)** advanced electives chosen from:

| | | | | |
|-------|-------|---|---|---------------------------------------|
| _____ | _____ | 4 | Additional CSC course numbered 300 or above | |
| _____ | _____ | 4 | Additional CSC course numbered 300 or above | |
| _____ | _____ | 4 | DST314 | Programming for Data Science |
| _____ | _____ | 4 | DST475 | Machine Learning |
| _____ | _____ | 4 | MAT350 | Graph Theory |
| _____ | _____ | 4 | MAT455 | Numerical Mathematics and Computation |

Complete **both** MAT145 and MAT302

| | | | | |
|-------|-------|---|--------------------|----------------------------------|
| _____ | _____ | 4 | MAT145 and 145L | Calculus I |
| _____ | _____ | 4 | MAT302 | Discrete Mathematical Structures |

Complete **one (1)** mathematics elective

| | | | | |
|-------|-------|---|--------------------|----------------|
| _____ | _____ | 4 | MAT146 and 146L | Calculus II |
| _____ | _____ | 4 | MAT315 | Linear Algebra |