

**Computer Science, Applied (B.A.)**

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
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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 **both of** the following courses

_____	_____	4	CSC240	Information Security and Assurance
_____	_____	4	MIS260	Problem Solving for Business

Complete **one (1)** of DST234 or MIS270:

_____	_____	4	DST234	Introduction to Data Science (and R)
_____	_____	4	MIS270	Data Management for Business

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

_____	_____	4	CSC311	Web Applications and Databases
_____	_____	4	CSC395	Topics class 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	DST314	Programming for Data Science
_____	_____	4	MIS476	Information Systems Projects

Complete **one (1)** discrete mathematics course

_____	_____	4	MAT202	Discrete Mathematics for Computing (NSM)
_____	_____	4	MAT302	Discrete Mathematical Structures

Complete additional required courses in one of the ways listed below

_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

*Elective options*

**Natural Sciences and Mathematics**

- Option 1: Computer and Data Science - Any two of DST234, DST314, or CSC courses numbered 300 or above
- Option 2: Biology - Both BIO102/102L and BIO121/121L
- Option 3: Mathematics – Any two of MAT315, MAT345, MAT350, MAT455, MAT465, MAT485
- Option 4: Physics - Both PHY107/107L and PHY108/108L or both PHY121/121L and PHY122/122L
- Option 5: Psychology - Both PSY215 and PSY354

**Fine Arts**

- Option 6: Graphic Design - Both VIZ102 and VIZ109
- Option 7: Music - All of MUS221, MUS225, and MUS306
- Option 8: Theater - THR228 and THR229

**Business**

- Option 9: Macroeconomics - Both ECO112 and ECO312

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- Option 10: Microeconomics - Both ECO113 and ECO313
- Option 11: Entrepreneurship - Both ENT354 and ENT454
- Option 12: Management Information Systems - Both MIS375 and MIS376
- Option 13: Marketing - Both MKT252 and MKT359
- Option 14: Sports Analytics – MIS378 and one of MIS270 or DST234

## **Humanities and Social Sciences**

- Option 15: History - One of HIS101, HIS102, HIS121, or HIS122, as well as one of HIS200 or HIS300
- Option 16: Law - Both NMS371 and POL170
- Option 17: Game Design - Both NMS115 and NMS352
- Option 18: New Media - NMS220 and one of NMS260 or ART340
- Option 19: Geographic Information Systems – SOC264/URB264 Mapping Our Social World: Intro to GIS and SOC300/URB395 Mapping Our Social World: Advanced GIS (*this topic only*)