Computer Science (B.S.)

2024-2025 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
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 A I Robotics
		4	CSC443	Software Engineering
		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	
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		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

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Complete **one (1)** Speaking skill course

_____	_____	4	COM115	Scientific and Technical Public Speaking
_____	_____	4	COM111	Public Speaking
_____	_____	2	MAT201	Communicating Mathematics