Computer Science (B.S.)

2022-2023 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	CSC341	Data Structures
		4	CSC351	Algorithms
		4	CSC371	Computer Organization
Complete **one (1)** advanced theory elective				
		4	CSC385	Formal Logic and Computation Theory
		4	CSC395	Topics class with “advanced theory” designation
Complete Programming Languages				
		4	CSC391	Programming Languages
Complete **one (1)** systems elective				
		4	CSC240	Information Security and Assurance
		4	CSC272	Unix and C
		4	CSC395	Topics class with “systems” designation
Complete **one (1)** user-client elective				
		4	CSC311	Web Applications and Databases
		4	CSC396	Internship – or 4 credits of CSC397/398, or CSC399
		4	CSC395	Topics class with “user-client” designation
		4	CSC421	Mobile Computing
Complete **one (1)** semester-long project elective				
		4	CSC443	Software Engineering
		4	CSC451	Compilers
		4	CSC395	Topics class with “semester-long project” designation
		4	MIS476	Information Systems Projects
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	PHY261	Electronics
Complete **one (1)** advanced elective chosen from:				
		4	Additional CSC course numbered 300 or above	
		4	DST314	Programming for Data Science
		4	MAT455	Numerical Mathematics and Computation
Complete **both** MAT145 and MAT302				
		4	MAT145 and 145L	Calculus I
		4	MAT302	Discrete Mathematical Structures (students who have already completed MAT202 may choose to substitute an additional mathematics elective numbered 300 or above)

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Complete **one (1)** specialized mathematics elective

_____	_____	4	MAT146 and 146L	Calculus II
_____	_____	4	MAT315	Linear Algebra
_____	_____	4	MAT350	Graph Theory

Complete **one (1)** additional mathematics elective numbered 250 or above

_____	_____	4	MAT255	Multivariable Calculus
_____	_____	4	Additional MAT elective numbered 300 or above	

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

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

Student's Signature Date

Advisor's Printed Name Signature Date

Advisor(s): By signing, you indicate you have verified the accuracy of the information above. Faculty advisors must initial next to each course substitution/waiver and sign this form.