

Computer Science (B.S.)

2023-2024 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.