

Computer Science (B.S.)

2019-2020 catalog

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

Major Requirements

All classes must be completed with a C- grade or better. Students may apply up to 4 credit hours of internship towards the major.

Term Completed/Planned	Grade	Credit	Course #	Title
Complete one (1) of CSC160 or CSC165				
_____	_____	4	CSC160	Introduction to Computer Science and Communication
_____	_____	4	CSC165	Introduction to Computer Programming (Python)
Complete both CSC170 and CSC210				
_____	_____	4	CSC170	Introduction to Object-Oriented Programming (Java)
_____	_____	4	CSC210	Data Structures
Complete one (1) of CSC240, CSC272, or an approved topics course with a "systems" focus				
_____	_____	4	CSC240	Information Security and Assurance
_____	_____	4	CSC272	Unix and C
_____	_____	4	Approved topics class:	
Complete all of CSC320, CSC345, CSC385, and CSC450				
_____	_____	4	CSC320	Algorithms
_____	_____	4	CSC345	Principles of Computer Organization
_____	_____	4	CSC385	Formal Logic and Computation Theory
_____	_____	4	CSC450	Programming Languages
Complete one (1) of CSC352, CSC396, or an approved topics course with a "user-client" component				
_____	_____	4	CSC352	Database Management and Design
_____	_____	4	CSC396	Internship – or 4 credits of CSC397/398, or CSC399
_____	_____	4	Approved topics class:	
Complete one (1) of CSC443, CSC451, MIS476, or an approved topics course with a "semester-long project"				
_____	_____	4	CSC443	Software Engineering
_____	_____	4	CSC451	Compilers
_____	_____	4	MIS476	Information Systems Projects
_____	_____	4	Approved topics class:	
Complete two (2) electives from CSC courses above 200 (beyond those applied to above requirements), PHY261, or MAT355. Additionally, one elective may be satisfied by one of MAT213, MAT273, MIS270 or an approved "computing with data" course				
_____	_____	4	CSC200+	
_____	_____	4	CSC200+	
_____	_____	4	MAT355	Numerical Mathematics and Computation
_____	_____	4	PHY261	Electronics
_____	_____	4	MAT213, MAT273, MIS270, or approved "computing with data" course	
Complete both MAT145 and MAT271				
_____	_____	4	MAT145	Calculus I
_____	_____	4	MAT271	Discrete Mathematical Structures (students who have already completed MAT 171 may choose to substitute a third MAT elective from the list below)
Complete one (1) of MAT146, MAT246, or MAT304				
_____	_____	4	MAT146	Calculus II
_____	_____	4	MAT246	Linear Algebra
_____	_____	4	MAT304	Graph Theory
Complete one (1) additional mathematics elective chosen from MAT163, MAT164, or MAT courses above 200 (beyond those applied to above requirements)				
_____	_____	4	MAT163	Introductory Statistics
_____	_____	4	MAT164	Introductory Statistics for STEM
_____	_____	4	MAT200+	

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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

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.