

**Computer Science (B.S.)**

2018-2019 catalog

**Student Name:** \_\_\_\_\_ **ID Number:** \_\_\_\_\_

**Major Requirements**

All classes must be completed with a C- grade or better.

Term Completed/Planned	Grade	Credit	Course #	Title
_____	_____	4	CSC160	Introduction to Computer Science and Communication
_____	_____	4	CSC170	Introduction to Programming
_____	_____	4	CSC210	Data Structures
_____	_____	4	CSC240	Introduction to Networking and Communications
_____	_____	4	CSC320	Algorithms
_____	_____	4	CSC345	Principles of Computer Organization
_____	_____	4	CSC385	Formal Logic and Computation Theory
_____	_____	4	CSC450	Programming Languages and Compilers I
_____	_____	4	CSC451	Programming Languages and Compilers II
_____	_____	4	MAT145	Calculus I (NSM)
_____	_____	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 **two (2)** math electives, chosen from:

_____	_____	4	MAT146	Calculus II
_____	_____	4	MAT245	Calculus III
_____	_____	4	MAT246	Linear Algebra
_____	_____	4	MAT304	Graph Theory
_____	_____	4	MAT355	Numerical Mathematics and Computation ( <i>may only count once toward the major</i> )
_____	_____	4	MAT363	Dynamical Systems
_____	_____	4	MAT369	Modeling and Differential Equations in Biological and Natural Sciences

Complete **three (3)** electives, including at least two upper division electives, chosen from the list below. No more than 4 credits of internship may be applied to the major.

_____	_____	4	CSC250	Game Programming on the Web
_____	_____	4	CSC272	Unix and C
_____	_____	4	CSC310	Introduction to Data Science
_____	_____	4	CSC352	Database Management and Design
_____	_____	4	CSC353	Database Architecture and Design
_____	_____	4	CSC373	Symbolic Programming and Artificial Intelligence
_____	_____	4	CSC395	Topics
_____	_____	4	CSC399	Internship
_____	_____	4	CSC431	Introduction to A.I. Robotics
_____	_____	4	CSC457	Computer Graphics
_____	_____	4	CSC495	Advanced Topics
_____	_____	4	CSC499	Independent Study
_____	_____	4	MAT355	Numerical Mathematics and Computation
_____	_____	4	MIS475	Systems Analysis and Design
_____	_____	4	PHY261	Electronics

Complete **one (1)** Speaking skill course, chosen from COM111, COM115, and MAT201

Abbreviation Key: ML = Modern Language; SC = Signature Curriculum; EM = Engaging Minneapolis; AE = Augsburg Experience; KC = Senior Keystone Course; NSM = Natural Science & Mathematics - no lab; NSM-L = Natural Science & Mathematics-with lab; SBS = Social & Behavioral Science; FA = Fine Arts; HUM = Humanities

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.