Bachelor of Science in Mathematics and Computer Science

The **BS in Mathematics and Computer Science** combines related areas of the two disciplines and is an excellent base for interdisciplinary graduate work.

Please note:
- Students must meet the minimum GPA requirement of 2.0 to graduate with any major (or minor) from the department.
- All classes counting toward the degree must be taken for a letter grade.
- Major/Minor GPA will be calculated using the better of the grades when a student repeats a course.

Requirements
(declarations after Spring 2019)

Requirement	Course Name / Criteria
Math 111	Calculus I
Math 112	Calculus II
Math 221	Linear Algebra
Math 315	Numerical Analysis
Two (2) courses chosen from:	Math 346: Linear Optimization Math 347: Intro to Non-Linear Optimnization Math 351: Partial Differential Equations Math 361: Probability & Statistics I Math 362: Probability & Statistics II
CS 170	Introduction to Computer Science I
CS 171	Introduction to Computer Science II
CS 224	Foundations of Computer Science
CS 253	Data Structures and Algorithms
CS 255	Computer Architecture and Machine Level Programming
CS 326	Analysis of Algorithms
CS 350	Systems Programming
CS 370	Computer Science Practicum
One (1) course chosen from:	CS 325: Artificial Intelligence CS 329: Computational Linguistics CS 334: Machine Learning CS 377: Database Systems
Two (2) courses chosen from:	Any 300-level CS classroom course not taken as a requirement from the list above
Two (2) courses chosen from:	Any 400-level CS classroom course