

# MATHEMATICS AND COMPUTER SCIENCE (B.S.)

The Mathematics and Computer Science Program is a blend of courses from these two disciplines designed to provide the student with the essential theoretical and practical elements of computer science as well as a significant background in mathematical theory and reasoning.

## Major Program (69-70 credit hours)

Code	Title	Hours
<b>Required Math Courses</b>		
MATH 175	Statistics	4
MATH 181	Calculus/Analytic Geometry I	5
MATH 182	Calculus/Analytic Geometry II	4
MATH 271	Calculus III	4
MATH 275	Linear Algebra	3
MATH 280	Differential Equations	3
MATH 326	Discrete Mathematics	3
MATH 365	Operations Research	3
MATH 380	Numerical Analysis	3
<b>Computer Science Required Courses</b>		
COMP 135	Introduction to Information Technology	3
COMP 140	Computer Science I	4
COMP 150	Computer Science II	3
COMP 200	Hardware & Architecture	3
COMP 253	JAVA with Data Structures	3
COMP 254	Advanced Data Structures	3
COMP 335	Operating Systems	3
COMP 356	Theory of Programming Languages	3
COMP 400	Database Management	3
<b>Electives</b>		
Select six credit hours of 300-400 level MATH or COMP courses		6
<b>Capstone Courses</b>		<b>3</b>
MATH 391	Junior Seminar (1)	
& MATH 490	and Senior Seminar (2)	
COMP 480	Senior Project (3)	
<b>Total Hours</b>		<b>69</b>

Students work with their advisors in selecting additional elective credits to fulfill the 120 credit hours required for graduation.