B.S. IN MATHEMATICS AND DATA SCIENCE

Major in Mathematics and Data Science (B.S.) Required courses in Mathematics: MAT 124M Calculus 1 1 MAT 125 Calculus 2
MAT 124M Calculus 1 ¹
MAT 125 Calculus 2
WAT 120 Odiculus 2
MAT 211 Linear Algebra
MAT 222 Differential Equations ²
MAT 223 Multivariable Calculus
MAT 241 Discrete Mathematics
MAT 300 Numerical Analysis
MAT 310 Abstract Algebra
MAT 330 Probability and Statistics
MAT 331 Applied Statistics
MAT 376 Operations Research
MAT 422 Real Analysis
MAT 499 Senior Seminar
Required Courses in Computer Science:
Choose one of the following sequences: 6-
COS 100 Introduction to Programming
COS 105 Object-oriented Design and Programming
Or
COS 205 Scientific Computing
one additional Computer Science course
COS 212 Data Structures
COS 216 Algorithms and Advanced Data Structures
COS 313 Database Systems
COS 334 Data Mining and Machine Learning
BUS 317 Business Analytics
Code Title Credit
Major 66-6
General Education 44-4
Electives 1
Total Credits 12

Students may test into this course via successful completion of the Math and Computer Science department placement exam or by completing MAT 123M and the Math and Computer Science department placement exam requirements.

MAT 224 may be used as a substitute.
 Courses whose number is followed by a letter fulfill a General Education requirement.
 Students may not declare a B.S. in Mathematics and Data Science and a Minor in Mathematics.