

B.S. IN ACTUARIAL SCIENCE AND FINANCE

A degree in Actuarial Science and Finance prepares students well for a career as an Actuary or a related field, particularly related to Finance.

Code	Title	Credits
Major in Actuarial Science and Finance (B.S.)		
BUS 210	Financial Accounting	4
BUS 220	Principles of Marketing	4
BUS 230	Principles of Management	4
BUS 317	Business Analytics	4
BUS 344	Managerial Finance	4
BUS 352	Financial Modeling & Valuation	3
BUS 361	Business Law	3
BUS 440	Capital Markets ¹	3
BUS 470	Finance Seminar ¹	3
COS 100	Introduction to Programming	3
COS 105	Object-oriented Design and Programming	4
COS 212	Data Structures	4
COS 216	Algorithms and Advanced Data Structures	3
COS 313	Database Systems	3
ECO 202	Principles of Microeconomics	2
ECO 203	Principles of Macroeconomics	2
MAT 124M	Calculus 1 ²	4
MAT 125	Calculus 2	4
MAT 223	Multivariable Calculus	3
MAT 241	Discrete Mathematics	3
MAT 309	Financial Mathematics	3
MAT 330	Probability and Statistics	3
MAT 331	Applied Statistics	3
Choose one of the following courses:		3-4
MAT 300	Numerical Analysis	
MAT 376	Operations Research ³	
Choose one of the following courses:		3
BUS 416	Business Forecasting and Data Mining	
COS 334	Data Mining and Machine Learning	
Internship (135+ hours = 3 credits, 180+ hours = 4 credits)		3-4
One Actuarial Examination Successfully Passed		
Code	Title	Credits
Major		85-87
General Education		44-45
Total Credits		130-131

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- ¹ BUS 106, BUS 326, and MAT 207M are prerequisites for this course.
- ² 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.
- ³ MAT 211 with a C- or higher or MAT 224 with a C- or higher is a prerequisite for this course. Courses whose number is followed by a letter fulfill a General Education requirement.