

# Actuarial Science

The actuarial science major prepares students for a career as an actuary. Actuaries evaluate, measure, and manage risk. This career field is in high demand and is expected to grow at a higher than average rate according to the Bureau of Labor Statistics. The coursework required for this major gives students a well rounded background in mathematics and finance. The curriculum is based on the recommended curriculum of the Society of Actuaries and current course offerings within both the math and business departments. This curriculum will help prepare students for successful completion of the first two actuarial exams – the probability exam and the financial mathematics exam.

See the Graduate section (<http://catalog.mtmercy.edu/archives/2014-15/graduateprograms>) of this *Catalog* for more information on Graduate programs offered at Mount Mercy.

## Core requirements for all Business Majors

BA 203	Principles Of Law	3
BA 250	Technology & Communication In Business	3
BA 270	Business Statistics	3
BA 379	Financial Management	3
BA 435	Senior Sem - Business	3
or BA 436	Applied Business Strategy	
BC 265	Principles Of Accounting I	3
BC 266	Principles Of Accounting II	3
BN 204	Principles Of Management	3
BK 208	Principles Of Marketing	3
EC 251	Macroeconomics Principles	3
EC 252	Microeconomic Principles	3
Select one of the following:		3
MA 130	Finite Mathematics	
MA 132	Basic Mathematical Modeling	
MA 139	Pre-Calculus	
MA 142	Mathematics Modeling	
MA 160	Business Calculus	
MA 164	Calculus I (Required for Actuarial Science Majors)	
Total Hours		36

## Actuarial Science Major (Business Core plus 25 additional hours)

BA 101	Business 101	1
BA 344	Investments	3
EC 366	Money and Banking	3
CS 105	Fundamentals Of Computer Science	4
MA 165	Calculus II	4
MA 166	Calculus III	3
MA 202	Linear Algebra	4
Select one of the Following:		3
BA 360	Securities Analysis	
BA 350	Risk Management	
BA 420	Cases In Finance	

BA 425	Finance Internship	
CS 106	Data Structures	
MA 245	Differential Equations	
Total Hours		25

**See Academic Requirements** for all business department majors and minors found in the Business Administration (<http://catalog.mtmercy.edu/archives/2014-15/curriculum/businessadministration>) section of the *Catalog*.