Actuarial Science, BS

General Education Requirements

Students must satisfy the university general education requirements. Many of the courses for the degree may be used to fulfill math proficiency, information literacy, social science, and math and life/natural sciences requirements. There is no foreign language requirement for the degree.

Satisfactory/Unsatisfactory Option

Courses required for the major may not be taken on a satisfactory/unsatisfactory basis.

Required Courses

Candidates for the B.S. in Actuarial Science degree must complete a program of 62 credit hours of required courses. Each required course must be completed with a grade of C- or better and students must maintain a GPA of 2.0 for courses required for the degree.

ACCTNG 2400	Fundamentals of Financial Accounting	3
CMP SCI 1250	Introduction to Computing	3
ECON 1001	Principles of Microeconomics (MOTR ECON 102)	3
ECON 1002	Principles of Macroeconomics (MOTR ECON 101)	3
ECON 4100	Introduction to Econometrics	4
ECON 4120	Time Series Econometrics for Economics and Finance	4
or ECON 4130	Business and Economic Forecasting	

FINANCE 3500	Financial Management	3
FINANCE 3520	Investments	3
FINANCE 3521	Financial Engineering: Applying Derivatives	3
~~FINANCE 3561~~	~~Principles of Insurance~~	~~3~~
INFSYS 2800	Information Systems Concepts and Applications	3
MATH 1800	Analytic Geometry and Calculus I	5
MATH 1900	Analytic Geometry and Calculus II	5
MATH 2000	Analytic Geometry and Calculus III	5
MATH 1320	Introduction to Probability and Statistics	3
or ECON 3100	Economic Data and Statistics	
MATH 4010	Financial Mathematics I	3
MATH 4020	Financial Mathematics II	3
MATH 4200	Mathematical Statistics I	3
MATH 4210	Mathematical Statistics II	3
Total Hours		**62**

~~Recommended Courses Students are strongly encouraged to take as many of the following courses as possible.~~

~~CMP SCI 2250~~	~~Programming and Data Structures~~	~~3~~
~~ECON 3001~~	~~Intermediate Microeconomics~~	~~3~~
~~ECON 3002~~	~~Intermediate Macroeconomics~~	~~3~~
~~ECON 4110~~	~~Applied Econometrics~~	~~4~~
~~ECON 4995~~	~~Internship in Actuarial Science~~	~~1-3~~
~~or MATH 4995~~	~~Internship in Actuarial Science~~	
~~MATH 2450~~	~~Elementary Linear Algebra~~	~~3~~
~~MATH 4260~~	~~Introduction to Stochastic Processes~~	~~3~~

Rationale	FINANCE 3520 will be more useful than FINANCE 3561 for preparing for the IFM Exam of of the Society of Actuaries.