

## New Program Proposal

# BS in Actuarial Science

## Bachelor of Science in Actuarial Science

### 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	3
ECON 1002	Principles Of Macroeconomics	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 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 Statistics	
MATH 3010	Financial Mathematics I	3
MATH 3020	Financial Mathematics II	3
MATH 4200	Mathematical Statistics I	3
MATH 4210	Mathematical Statistics II	3
<b>Total Hours</b>		<b>62</b>

### 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		
MATH 2450	Elementary Linear Algebra	3
MATH 4260	Introduction To Stochastic Processes	3

Sign-offs from other departments affected by this proposal

Department	Contact Person	Phone #	Objections
S003100	Ron Dotzal		No
S004250	Gaiyan Zhang		No
Rationale	See attached documents.		