



2022-2023

## **ACTUARIAL MATHEMATICS MAJOR, B.A.**

Mathematics Department; School of Science, Health & Mathematics

In recent years, the need for additional analytical and technical skills in financial and risk analysis has grown significantly. The technical nature of modern financial and economic analysis requires a student with a strong mathematical and computational background in addition to strong skills in business and economics. The marketplace is also demanding this new combination of skills. The continued spread of free-market economies increases the potential for financial mathematics graduates to have international impact in an environment that seeks those who have a worldview shaped by the classical liberal arts and complemented by cutting-edge financial analysis.

*To graduate must complete all major requirements, foundational requirements, and additional electives needed for 124 hour minimum degree requirement.*

### **MAJOR REQUIREMENTS (57)**

__ 3	ACC	201	Financial Accounting	
__ 3	ACC	202	Managerial Accounting	
__ 4	CSC	121	Data Science I	__ Lab
__ 4	CSC	122	Data Science II	__ Lab
__ 3	ECN	272	Intro Microeconomics	
__ 3	ECN	273	Intro Macroeconomics	
__ 3	FIN	351	Principles of Finance	
__ 3	FIN	372	Financial Markets	
__ 4	MAT	181	Calculus I	__ Lab
__ 4	MAT	182	Calculus II	__ Lab
__ 4	MAT	183	Calculus III	__ Lab
__ 3	MAT	252	Diff Equations & Modeling	
__ 3	MAT	255	Financial Mathematics	
__ 3	MAT	271	Linear Algebra	
__ 3	MAT	281	Probability	
__ 1	MAT	475	Senior Seminar	

Choose two courses:

	ACC	361	Management Info Systems
__ 3	BU	211	Principles of Management
	BU	321	Business Law I
__ 3	BU	331	Human Resource Mgmt
	FIN	352	Principles of Investment

### **PLUS FOUNDATIONAL COURSE REQUIREMENTS (50)**

(3 hours Social Science and 3 hours Math satisfied by required major courses.)

### **Plus electives needed for the 124 hour degree requirement (17)**