ACTUARIAL SCIENCE CONCENTRATION, MATHEMATICAL SCIENCES (BS)

Actuarial Science uses mathematics, statistics and financial theory to study uncertain future events, especially those that relate to risk management and insurance programs. This concentration prepares students to work for insurance or pension consulting firms and government.

Concentration Requirements

Course	Title	Quarter Hours
MAT 351	PROBABILITY AND STATISTICS I	4
MAT 352	PROBABILITY AND STATISTICS II	4
MAT 353	PROBABILITY AND STATISTICS III	4
MAT 361	THEORY OF INTEREST	4
MAT 362	LIFE CONTINGENCIES I	4
MAT 363	LIFE CONTINGENCIES II	4
or MAT 364	LOSS MODELS I	

Open Electives

Open elective credit also is required to meet the minimum graduation requirement of 192 hours.

Recommended Mathematics Courses

Course	Title	Quarter Hours
MAT 341	STATISTICAL METHODS USING SAS	
MAT 356	APPLIED REGRESSION ANALYSIS	
MAT 358	APPLIED TIME SERIES AND FORECASTING	
MAT 355	STOCHASTIC PROCESSES	
MAT 359	SIMULATION MODELS AND MONTE CARLO METHOD	
MAT 364	LOSS MODELS I	
MAT 365	LOSS MODELS II	
MAT 368	MATHEMATICS FOR FINANCE	

Additional Recommended Courses

Course	Title	Quarter Hours
ACC 101	INTRODUCTION TO ACCOUNTING I	
ECO 105	PRINCIPLES OF MICROECONOMICS	
ECO 106	PRINCIPLES OF MACROECONOMICS	
FIN 310	INTRODUCTION TO FINANCE	
FIN 311	CORPORATE FINANCE	
FIN 320	MONEY AND BANKING	
FIN 330	INVESTMENTS: THEORY & PRACTICE	
FIN 335	PORTFOLIO MANAGEMENT	
FIN 362	ENTERPRISE RISK MANAGEMENT	
FIN 363	DERIVATIVES: PRICING & APPLICATIONS	