STATISTICS CONCENTRATION, MATHEMATICAL SCIENCES (BA)

This concentration offers students a solid foundation in probability and statistics. Statisticians are employed by government, industry, marketing research companies, and consulting firms to design surveys and experiments and to analyze statistical data.

Course 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 356	APPLIED REGRESSION ANALYSIS	4
Select one of the following (students are encouraged to take this course prior to MAT 351):		4
MAT 341	STATISTICAL METHODS USING SAS	
MAT 348	APPLIED STATISTICAL METHODS	
Select two courses from the following list:		8
MAT 326	SAMPLE SURVEY METHODS	
MAT 328	DESIGN OF EXPERIMENTS	
MAT 350	BAYESIAN STATISTICS	
MAT 355	STOCHASTIC PROCESSES	
MAT 357	NONPARAMETRIC STATISTICS	
MAT 358	APPLIED TIME SERIES AND FORECASTING	
MAT 359	SIMULATION MODELS AND MONTE CARLO METHOD	
MAT 360	GENERALIZED LINEAR MODELS	

Open Electives

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

Additional Recommended Courses

Course	Title	Quarter Hours
MAT 335	REAL ANALYSIS I	
MAT 336	REAL ANALYSIS II	
MAT 370	ADVANCED LINEAR ALGEBRA	
MAT 385	NUMERICAL ANALYSIS I	
MAT 386	NUMERICAL ANALYSIS II	

Students interested in graduate study in mathematical statistics are encouraged to take the following:

Course	Title	Quarter Hours
MAT 335	REAL ANALYSIS I	
MAT 336	REAL ANALYSIS II	