BACHELOR OF SCIENCE WITH AN APPLIED MATHEMATICS AND STATISTICS MAJOR

Bachelor of Science with an Applied Mathematics and Statistics Major Requirements

First-Year Gateway Experience	
GFCL 100	Global Foundations of Character and Leadership
GFOB 100	Global Foundations of Organizations and Business
WRIT 106	Writing Workshop
IDEA 101	Bryant IDEA: Innovation and Design Experience For All
Appllied Mathematics and Statistics Major Requirements	
AM 230	Actuarial Statistics I
AM 231	Actuarial Statistics II
MATH 490	Applied Mathematics and Statistics Capstone Seminar
Select seven of the following: [1]	
AM 332	Actuarial Statistics III
or MATH 350	Statistics II
AM 333	Advanced Probability
AM 340	Mathematical Interest Theory I
AM 341	Mathematics of Finance, Insurance, and Pensions
AM 342	Mathematical Interest Theory II
AM 440	Actuarial Mathematical Models and Stochastic Calculus
ECO 315	Econometrics
MATH 226	Linear Algebra
MATH 228	Discrete Structures
MATH 354	Software Application for Mathematics
MATH 391	Applied Mathematics and Statistics Internship
MATH 409	Elementary Number Theory
MATH 421	Statistical Analysis With R
MATH 435	Geometry
MATH 455	SAS Programming and Applied Statistics
MATH 456	Statistical and Mathematical Decision Making
MATH 460	Applied Data Mining
MATH 461	Applied Multivariate Statistics
MATH 470	Statistical Design and Analysis of Experiments
MATH 475	Applied Analytics Using SAS
MATH 488	Sports Statistics
MATH 497	Directed Study in Mathematics
Liberal Arts Core Requirements	
ECO 113	Microeconomic Principles
ECO 114	Macroeconomic Principles
LCS 121	Introduction to Literary Studies
MATH 121	Calculus and Analytic Geometry I
MATH 122	Calculus and Analytic Geometry II
MATH 223	Calculus and Analytic Geometry III
Two Humanities Survey Courses	
Liberal Arts Distributions - Modes of Thought	
Two Social Science Modes of Thought	
One Historical Mode of Thought (Upper Division)	
One Literary Mode of Thought (Upper Division)	
Two Scientific Modes of Thought [2]	
Business Minor Requirement	
Selection is made from a variety of business minors (Business Administration, Entrepreneurship, Finance, Global Supply Chain Management, Human Resource Management, Information Systems, International Business, Management, Marketing, Marketing Analytics, and Sales).	
Electives	
Subject to programmatic constraints, students may elect to take additional business courses beyond the required minor, not to exceed a combined total of 30 credit hours in the College of Business.	

1. Students who choose MATH 455, MATH 460, MATH 461, and either MATH 475 or MATH 470 may earn SAS® certification in data mining. To earn certification, a student must achieve at least a 'B' average in all of these courses with no grade lower than a 'C' in any one course.
2. Include one Lab Science. One science course must be taken at the 300 or 400 level.

A minimum 122 credit hours required for graduation