Bachelor of Science with an Applied Mathematics and Statistics Major

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

Applied 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:

- 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

Business Minor Requirement


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