

Data Science and Analysis BS, Supply Chain Analytics Emphasis

General Education Requirements

Students must satisfy the university general education requirements. Many of the courses for the degree may be used to fulfill math proficiency, information literacy, social science, and math and life/natural sciences requirements. The program recommends students take ENGL 3130, Technical Writing or ENGL 3120, Business Writing, to satisfy the Junior-Level Writing requirement. Emphasis areas may require one of these courses. There is no foreign language requirement for the degree.

Satisfactory/Unsatisfactory Option

Courses required for the major may not be taken on a satisfactory/unsatisfactory basis.

Degree Requirements

The BS in Data Science and Analysis consists of a set of core courses along with an emphasis area.

Core Course

MATH 1800 or MATH 1100	Analytic Geometry and Calculus I ¹ Basic Calculus	3-5
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Statistics Course 3

The Introduction to Statistics course should align with the student's Discipline Emphasis Area.

Choose one of the following:

SOC/ANTHRO 3220	Quantitative Data Analysis in Social Science Research
BIOL 4122	Biostatistics
ECON 3100	Economic Data and Statistics
CRIMIN 2220	Statistical Analysis in Criminology and Criminal Justice
MATH 1320	Introduction to Probability and Statistics
PSYCH 2201	Psychological Statistics
POL SCI 3000	Political Analysis
SCMA 3300	Business Analytics and Statistics

Additional Required Courses

MATH 4005	Exploratory Data Analysis with R	3
CMP SCI 1250	Introduction to Computing	3
CMP SCI 4200	Python for Scientific Computing and Data Science	3
CMP SCI 4342	Introduction to Data Mining	3

Total Hours 18-20

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Students interested in the Computer Science emphasis area, the Mathematics Emphasis Area, or in taking additional mathematics courses should take MATH 1800.

Emphasis Area Requirements

SCMA 3301	Introduction to Supply Chain Management	3
SCMA 3320	Advanced Supply Chain and Operations Management	3
SCMA 4330	Business Logistics	3
SCMA 4331	Applied Supply Chain Modeling	3
SCMA 4350	Prescriptive Analytics and Optimization	3
Choose one of the following:		3
SCMA 3345	Predictive Analytics and Data Mining	
SCMA 3390	Internship in Supply Chain and Analytics	
SCMA 3398	Seminar in Supply Chain Management and Analytics ¹	
SCMA 4389	Supply Chain Management Practicum	
SCMA 4398	Advanced Topics in Supply Chain and Analytics ¹	

Total Hours 18

¹

Students must complete 3 credit hours in order to count the course as an elective.