Data Science & Analytics

Degree Type
Bachelor of Science - Major

Major Requirements

Consists of 52 credit hours including the following courses:

Required Courses

Course Code	Title	Credits
MATH-130	Survey of Calculus	3
MATH-140	Introduction to Statistics	3
MATH-210	Introduction to Linear Algebra	3
CSCI-101	Programming I	4
CSCI-130	Programming with Python	3
CSCI-210	Discrete Mathematics	3
CSCI-230	Web Scripting	3
DSA-225	Statistical Methods With R	3
DSA-230	Database Systems	3
DSA-300	Advanced Data Analytics	3
DSA-330	Data Warehousing	3
DSA-350	Data Acquisition	3
DSA-375	Data Visualization	3
DSA-400	Intelligent Search Methods	3
DSA-425	Data Mining and Business Intelligence	3
DSA-450	Machine Learning	3

Complete one of the following elective courses

During the junior or senior year:

Course Code	Title	Credits
DSA-475	Big-Data and Cloud Computing	3
DSA-480X	Internship	3
DSA-490	Independent Study	3
DSA-491	Research	3
DSA-499	Honors Project	3
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CSCI-412	Theoretical Cryptography	3
CSCI-414	Coding Theory	3
	Total Credits	**52**