

CERTIFICATE IN BIG DATA ANALYTICS

The Big Data Analytics (BDA) certificate is designed to provide students with the tools necessary to compete in the Big Data space. Students will use big data tools that are currently available to capture, analyze, and present big data. They will explore a variety of applications with which Big Data tools can be applied, and they will complete a Big Data project. This certificate is currently aimed at students majoring in business, computer science, or mathematics.

Certificate - Big Data Analytics

School of Business Admin

Degree Specific Credits: 12

Required Cumulative GPA: 3.0

Catalog Year: 2017-2018

Note: All students pursuing a BDA Certificate must also complete the degree requirements for a UM major.

The 3.0 GPA requirement pertains specifically to the 12 credits required for this certificate, not a student's cumulative GPA.

Please meet with an BDA Certificate Advisor for assistance (Computer Science and Mathematics majors contact their department; all others contact SOBA Advising).

Complete the BDA certificate application (available from the SOBA advising office).

Summary

Big Data Analytics Certificate - Foundational Course	3
Big Data Analytics Certificate – Elective Courses	6
Big Data Analytics Certificate – Capstone Course	3
Total Hours	12

Big Data Analytics Certificate - Foundational Course

Rule: Take the following course.

Note: See individual course descriptions in the catalog for additional grade and prerequisite requirements.

BMIS 326	Introduction to Data Analytics	3
Total Hours		3

Minimum Required Grade: C-

Big Data Analytics Certificate – Elective Courses

Rule: Take 6 credits from the list below.

Select two from the following:	6
BMIS 465	Introduction to Real-time Data Analytics
BMKT 440	Marketing Analytics
CSCI 444	Data Visualization

CSCI 447	Machine Learning	
CSCI 448	Pattern Recognition	
CSCI 464	Applications of Mining Big Data	
CSCI 480	Applied Parallel Computing Techniques	
CSCI 564	Applications of Mining Big Data	
CSCI 580	Applied Parallel Computing Techniques	
M 461	Practical Big Data Analytics	
M 462	Theoretical Basics of Big Data Analytics and Real Time Computation Algorithms	
Total Hours		6

Minimum Required Grade: C-

Big Data Analytics Certificate – Capstone Course

Rule: Take one of the following two courses.

BMIS 482	Big Data Project	3
or M 467	Big Data Analytic Projects	
Total Hours		3

Minimum Required Grade: C-