

BS/MS DATA SCIENCE & ANALYTICS

Foundations of Excellence		37 Credits
ACES100	Achieving Career and Education Success	3
BITS211	Microcomputer Applications: Spreadsheet	3
COMM120	Presentation Techniques	3
ENGL109	Composition	3
ENGL110	Advanced Composition	3
ENGL311	Professional Writing	3
ECON 200	Microeconomics	3
ECON 201	Macroeconomics	3
MATH 120	College Mathematics	3
MATH150	Pre-Calculus	4
SOSC201	Diversity in Society	3
STAT220	Introduction to Statistics	3
Foundations of Math and Statistics		14 Credits
MATH 205	Applied Linear Algebra	4
MATH215	Calculus I	4
STAT322	Inferential Statistics	3
MATH250	Discrete Structures	3
Foundations of Business		6 Credits
MKTG211	Marketing Foundations	3
MKTG412	Marketing Research	3

Foundations of Computer Science		15 Credits
CISP253	Python Scripting	3
CSCI280	Artificial Intelligence	3
CISP309	Database Systems	3
CSCI325	Deep Learning	3
CISP446	Data Warehousing	3
Major		21 Credits
DATA275	Introduction to Data Analytics	3
DATA288	Introduction to R Programming	3
SPMG370	Sport Analytics	3
DATA356	Applied Regression Analysis	3
DATA374	Classification Models	3
DATA490	Data Science Internship	3
DATA495	Data Science Capstone	3
Open Electives		15 Credits
Graduate Core Courses		12 Credits
DATA610	Essentials of Business Analytics	3
DATA625	Data Mining	3
DATA667	Data Visualization and Communication	3
DATA710	Advanced R Programming	3
Graduate Advanced Courses		15 Credits
DATA728	Advanced Data Mining	3

DATA742	Data Warehousing	3
DATA758	Essentials of Cloud Computing	3
DATA772	Statistical Analysis for Data Analytics	3
DATA785	Predictive Modeling	3
DATA 792	Data Analytics Capstone	3

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