Fall 2023

DATA SCIENCE AND ANALYTICS (BS) and (MS)

2023-24 RECOMMENDED PROGRAM SEQUENCE (Full Time)

138 CREDITS

DSAN BS/MS

FRESHMAN YEAR

Fall Semester		(15 credits)	Winter Semester		(16 credits)
ACES100	Achieving Career and Education Success	3	ENG110	Advanced Composition	3
ECON200	Microeconomics	3	ECON201	Macroeconomics	3
MATH120	College Mathematics	3	MATH150	Pre-Calculus	4
ENGL109	Composition	3	SOSC201	Diversity in Society	3
COMM120	Presentation Techniques	3	STAT220	Introduction to Statistics	3

SOPHOMORE YEAR

Fall Semester		(16 credits)	Winter Semester		(15 credits)
DATA275	Introduction to Data Analytics	3	DATA288	Introduction to R Programming	3
BITS211	Microcomputer Applications: Spreadsheet	3	CISP309	Database Systems	3
CISP253	Python Scripting	3	ENG311	Professional Writing	3
MKTG211	Marketing Foundations	3	CISP280	Artificial Intellignece	3
MATH215	Calculus I	4	STAT322	Inferential Statistics	3

JUNIOR YEAR

Fall Semester		(15 credits)	Winter Semester		(16 credits)
DATA356	Applied Regression Analysis	3	DATA374	Classification Models	3
MATH250	Discrete Structures	3	DATA667	Data Visualization and Communication	3
DATA710	Advanced R Programming	3	MATH205	Applied Linear Algebra	4
CSCI325	Deep Learning	3	SPMG370	Sport Analytics	3
	Open Elective	3	CISP446	Data Warehousing	3

SENIOR YEAR

Fall Semester		(15 credits)	Winter Semester		(18 credits)
DATA610	Essentials of Business Analytics	3	DATA490	Data Science Internship	3
MKTG412	Marketing Research	3	DATA728	Advanced Data Mining	3
DATA625	Data Mining	3	DATA772	Statistical Analysis for Data Analytics	3
	Open Elective	3	DATA495	Data Science Capstone	3
	Open Elective	3		Open Elective	3
				Open Elective	3

5TH YEAR

Fall Semester		(6 credits)	Winter Semester		(6 credits)
DATA742	Data Warehousing and Data Lakes	3	DATA758	Essentials of Cloud Computing	3
DATA785	Predicitve Modeling	3	DATA792	Data Analytics Capstone	3

This information is subject to change and cannot be considered an agreement or contract between individual students and Davenport University.

Refer to the current University catalog to confirm degree requirements.