



**DATA SCIENCE AND ANALYTICS (BS)**

**2023-24 RECOMMENDED PROGRAM SEQUENCE (Full Time)**

**120 CREDITS**

**DSAN BS**

<b>FRESHMAN YEAR</b>					
<b>Fall Semester</b>		<b>(15 credits)</b>	<b>Winter Semester</b>		<b>(16 credits)</b>
ACES100	Achieving Career and Education Success	3	ENG110	Advanced Composition	3
BITS211	Microcomputer Applications: Spreadsheet	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
<b>SOPHOMORE YEAR</b>					
<b>Fall Semester</b>		<b>(15 credits)</b>	<b>Winter Semester</b>		<b>(15 credits)</b>
DATA275	Introduction to Data Analytics	3	DATA288	Introduction to R Programming	3
ECON200	Microeconomics	3	CISP309	Database Systems	3
CISP253	Python Scripting	3	ENG311	Professional Writing	3
MKTG211	Marketing Foundations	3	SPMG370	Sport Analytics	3
MATH250	Discrete Structures	3	STAT322	Inferential Statistics	3
<b>JUNIOR YEAR</b>					
<b>Fall Semester</b>		<b>(16 credits)</b>	<b>Winter Semester</b>		<b>(16 credits)</b>
DATA356	Applied Regression Analysis	3	DATA374	Classification Models	3
MATH215	Calculus I	4	CSCI280	Artificial Intelligence	3
DATA342/710	Advanced R Programming	3	MATH205	Applied Linear Algebra	4
CSCI325	Deep Learning	3	DATA312/667	Data Visualization and Communication	3
	Open Elective	3		Open Elective	3
<b>SENIOR YEAR</b>					
<b>Fall Semester</b>		<b>(15 credits)</b>	<b>Winter Semester</b>		<b>(12 credits)</b>
DATA444/610	Essentials of Business Analytics	3	DATA490	Data Science Internship	3
MKTG412	Marketing Research	3	DATA495	Data Science Capstone	3
DATA432/625	Data Mining	3	CISP446	Data Warehousing	3
	Open Elective	3		Open Elective	3
	Open Elective	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.