

B.S. in Data Science

Data Science - General

Freshman Year

Fall		Credits
COM 122	English Composition	3
CS 118	Fundamentals of Computer Programming	3
DS 150	Data Science I: Introduction	3
MA 241	Calculus and Analytical Geometry I	4
UNIV 101	College Success	1
Credits Subtotal		14.0

Spring

COM 219	Speech	3
CS 125	Computer Science I	4
DS 151	Data Science II: Foundations	3
	HU LL Elective	3
MA 242	Calculus and Analytical Geometry II	4
Credits Subtotal		17.0

Sophomore Year

Fall		Credits
MA 225	Introduction to Discrete Structures	3
MA 243	Calculus and Analytical Geometry III	4
	Natural Science Elective	3
	Social Science Lower-Level Elective	3
	Track Elective	3
Credits Subtotal		16.0

Spring

DS 244	Data Acquisition and Manipulation	3
MA 335	Introduction to Linear and Abstract Algebra	3
MA 412	Probability and Statistics	3
SE 300	Software Engineering Practices	3
	Track Elective	3
Credits Subtotal		15.0

Junior Year

Fall		Credits
COM 221	Technical Report Writing	3
or COM 222	Business Communication	
CS 315	Data Structures and Analysis of Algorithms	3
DS 312	Machine Learning	3
	Natural Science with Lab Elective	4
	Track Elective	3
Credits Subtotal		16.0

Spring

CI 460	Big Data Analytics and Machine Learning	3
DS 317	Statistical Software	3
DS 413	Statistics for Data Science	3
	Humanities or Social Science Upper-Level Elective	3
	Track Elective	3
Credits Subtotal		15.0

Senior Year

Fall		Credits
CS 317	Files and Database Systems	3
DS 411	Data Visualization	3
DS 483	Cloud Computing	3
	Open Elective	3

	Track Elective	3
Credits Subtotal		15.0
Spring		
DS 490	Data Science Capstone	3
	Open Elective	3
	Social Science Upper-Level Elective	3
	Humanities Upper-Level Elective	3
Credits Subtotal		12.0
Credits Total:		120.0