

B.S. in Data Science

Year One

		Credits
COM 122	English Composition	3
COM 219	Speech	3
EGR 115 or CS 223	Introduction to Computing for Engineers Scientific Programming in C	3
MA 210	Introduction to Data Science	3
MA 241	Calculus and Analytical Geometry I	4
MA 242	Calculus and Analytical Geometry II	4
	Physical Science Elective	3
UNIV 101	College Success	1
	Humanities Lower-Level Elective	3
	Social Science Lower-Level Elective	3
Credits Subtotal		30.0

Year Two

MA 243	Calculus and Analytical Geometry III	4
MA 305	Introduction to Scientific Computing	3
MA 412	Probability and Statistics	3
CS 222	Introduction to Discrete Structures	3
CS 225	Computer Science II	4
	Physical Science Elective	3
	Physical Science Laboratory	1
	Elective *	3
	Open Elective	6
Credits Subtotal		30.0

Year Three

COM 221	Technical Report Writing	3
CS 315	Data Structures and Analysis of Algorithms	3
CS 317	Files and Database Systems	3
DS 390	Research Project in Industrial Mathematics	3
DS 440	Data Mining	3
MA 360	Mathematical Modeling & Simulation I	3
MA 413	Statistics	3
MA 432	Linear Algebra	3
	Elective *	3
	Open Electives	3
Credits Subtotal		30.0

Year Four

MA 453	High Performance Scientific Computing	3
DS 444	Scientific Visualization	3
DS 490	Data Science Capstone	3
	Lower or Upper-Level Humanities or Social Science Elective	3
	Upper Level Humanities or Social Science Elective	3
	Elective *	9
	Open Electives	6
Credits Subtotal		30.0
Credits Total:		120.0