

Data Science Institute

Dr. Gulhan Bizel, *Chairperson*

The Data Science program provides students with the analytical and quantitative skills that are needed for a variety of careers that are growing at a fast pace. A data scientist creates new processes for data modeling, algorithms, predictive models, and custom analysis. The information they extract helps businesses and organizations solve complex problems. Data Science is a field that has numerous applications in many career areas including the sciences, business, engineering, health sciences, social sciences, and even the music industry. The Data Science Institute offers both a major and minor in Data Science.

Requirements for the Data Science Major

Degree of Bachelor of Science

BA-155	Principles of Marketing	3
BA-151	Principles of Management	3
BA-287	Introduction to Business Analytics	3
MA-212	Elementary Statistics	3
MA-222	Intermediate Statistics	3
MA-247	Introductory Linear Algebra	3
CS-271	Decision Support Systems	3
CS-260	Information Technology Ethics	3
CS-241	Python Programming for Comp Scientists	3
CS-190	Secure Software Development	3
CS-330	Data Structures & Algorithms With Python	3
IS-380	Database and Data Administration	3
DS-210	Introduction to Data Science	3
DS-310	Introduction to Data Mining	3
DS-340	SQL Programming	3
DS-399	Major Capstone Project	3
	3 Major Electives	9
Total Credits		57

Requirements for a Minor in Data Science

BA-287	Introduction to Business Analytics	3
DS-210	Introduction to Data Science	3
CS-330	Data Structures & Algorithms With Python	3
DS-340	SQL Programming	3
Any CS 300 Level Elective		3
Any DS 300 Level Elective		3
Total Credits		18