

DATA SCIENCE – B.S.

¹ Some electives may have additional prerequisites.

Policy on prerequisites: A grade of C- or better is required for a course in mathematics to fulfill a prerequisite for another mathematics course. A student must receive the permission of the mathematics department to take a mathematics course that is a prerequisite for a mathematics course for which they have previously received credit.

A grade of C or better is required for a course in computer science to fulfill a prerequisite for another computer science course.

Summary

Code	Title	Credits
	Data Science B.S. Major Requirements	58-63
	Integrative Core Curriculum Requirements and Electives ¹	57-62
Total Credits		120

¹ This major is not approved to fulfill a perspective course for the Integrative Core Curriculum.

Degree Requirements

An overall GPA of C (2.00) or above is required in courses that are being used to fulfill the minimum course requirements for the data science major. No more than one passing grade below C- may be used.

Code	Title	Credits
Data Core		
MATH 14800	Introduction to Data Science	4
MATH 18700	Introduction to Applied Linear Algebra	4
MATH 24100	Data Visualization	1
MATH 24800	Statistical Methods for Data Analysis	4
COMP 27500	Relational Database Systems	4
MATH 34800	Modern Data Science with R	3
COMP 35600	Machine Learning	4
MATH 44800	Data Science Senior Project	3
Mathematics Core		
MATH 10800	Applied Calculus or MATH 11100Calculus I	4
COMP 21500	Discrete Structures	4
Programming Core		
COMP 17100	Computer Programming I	4
COMP 17200	Computer Programming II	4
Domain Core		
	In consultation with their advisor, students must complete two courses outside of mathematics and computer science in a domain area. Domain area course must meet the following criteria:	6-8
	1) Must be at the 200-level or above	
	2) Must be 3-credit or 4-credit courses	
	3) Cannot have the subject code COMP or MATH	
Restricted Electives		
	Select three courses with the Data Science (DCSI) attribute. ¹	9-12
Total Credits		58-63