

Data Science Major (BS)

Summary of Requirements for a Major in Data Science

Computer Science Core Competence - 15 Credits

Item #	Title	Credits
	CSC 100, CSC 109, or CSC 115	3
MTH 115	Discrete Mathematics	3
CSC 240	Data Structures with C++	3
CSC 265	Algorithms	3
CSC 330	Database Theory and Application	3

Math Core Competence - 11 Credits

Item #	Title	Credits
MTH 210	Calculus I	4
MTH 220	Calculus II	4
	Math Core Competence Electives	3

Data Science Core Competence - 7 Credits

Item #	Title	Credits
DSC 105	Introduction to Data Science	3
DSC 205	Introduction to Advanced Data Science	4

Data Science Specialization - 6 Credits

Item #	Title	Credits
DSC 302	Data Visualization	3
DSC 305	Machine Learning	3
DSC 450	Data Science Independent Study	3
DSC 482	Data Science Special Topics	3

CORE CURRICULUM

Item #	Title	Credits
	Core Curriculum Requirements (In addition to Major hours)	44-48
	Total Credits	83-87

CSC 100, CSC 109, or CSC 115

One of the following:

Item #	Title	Credits
CSC 100	Introduction to Programming in C++	3
CSC 109	Introduction to Programming in Python	3
CSC 115	Introduction to Programming in Java	3

Math Core Competence Electives

One of the following: [3 Credits]

Item #	Title	Credits
MTH 330	Linear Algebra	3
MTH 360	Probability and Statistics	3
BUS 323	Statistical Applications to Business Decision Making	3
CSC 415	Numerical Analysis	3
MTH 415	Numerical Analysis	3