Mathematics and Data Science BS Four-Year Plan

FALL	SPRING
First Year	
MATH 210 - Discrete Mathematics I	MATH 219 - Data Science I
MATH 241 - Analytic Geometry and Calculus A	MATH 242 - Analytic Geometry and Calculus B
CISC 106 - General Computer Science for Engineers	MATH 315 - Discrete Mathematics II
Breadth Requirement (Group A) (1/6)	CISC 210 - Introduction to Systems Programming
UNIV 101 - First Year Experience	ENGL 110 - Seminar in Composition
Credits: 14	Credits: 16
Second Year	
MATH 243 - Analytic Geometry and Calculus C	MATH 350 - Probability Theory and Simulation Methods
MATH 349 - Elementary Linear Algebra	CISC 320 - Introduction to Algorithms
CISC 220 - Data Structures	Ethics Requirement (may count as Group A)
Laboratory Science Requirement (1/2)	Laboratory Science Requirement (2/2)
Breadth Requirement (Group B) (2/6)	Breadth Requirement (Group C) (3/6)
Credits: 17	Credits: 16
Third Year	
MATH 426 - Computational Mathematics	MATH 428 - Computational Mathematics II
MATH 450 - Mathematical Statistics	CISC 437 - Database Systems
MATH/CISC/STAT Requirement (1/3)	Breadth Requirement (Group B) (5/6)
Breadth Requirement (Group A) (4/6)	Free Elective (1/6)
Multicultural Requirement	Free Elective (2/6)

FALL	SPRING
Credits: 15	Credits: 15
Fourth Year	
MATH 419 - Data Science II	MATH/CISC/STAT Requirement (3/3)
MATH 529 - Fundamentals of Optimizatio	Free Elective (3/6)
Breadth Requirement (Group C) (6/6)	Free Elective (4/6)
Discovery Learning Experience	Free Elective (5/6)
MATH/CISC/STAT Requirement (2/3)	Free Elective (6/6)
Credits: 16	Credits: 15
Total Credits: 124	

Disclaimer: Four-Year Plans are a Departmental suggestion of how a student could complete this degree in four years (eight semesters). Students may opt to take courses in the summer or winter sessions. These plans do not take into account additional requirements brought on by minors or other majors. A Four-Year Plan is subject to change from year-to-year given the resources and focuses of the Department. This document is not intended to replace advising. It is the student's responsibility to meet with his or her assigned advisor at least once a semester to monitor progress and ensure that he or she is on track to graduate on time. Students can also utilize the Degree Audit in UDSIS to monitor their progress.