BS Data Science
Four Year Pathway Example (2025-2026)

First Year

Fall Semester		Spring Semester	
Recommended Course Selections	**Credits**	**Recommended Course Selections**	**Credits**
FYEX 100 First Year Seminar	3	DESN 144 Digital Theory & Skills	3
MATH 161 Calculus I	4	GEN ED (COMM 100)	3
GEN ED (ENGL 110)	3	CMSC 162 Intro to Programming II	4
CMSC 140 Discrete Structures	4	GEN ED (WELLNESS)	3
CMSC 161 Intro to Programming I	4	GEN ED	3
Totals Credits for Semester	**18**	**Totals Credits for Semester**	**16**

Second Year

Fall Semester		Spring Semester	
Recommended Course Selections	**Credits**	**Recommended Course Selections**	**Credits**
MATH 211 Calculus II	4	MATH 236 Elements of Statistics II	3
MATH 235 Survey of Statistics	3	CSCI 362 Data Structures	4
GEN ED	3	CSCI 366 Database Systems	4
GEN ED	3	GEN ED	3
GEN ED	3	GEN ED	3
Totals Credits for Semester	**16**	**Totals Credits for Semester**	**17**

Third Year

Fall Semester		Spring Semester	
Recommended Course Selections	**Credits**	**Recommended Course Selections**	**Credits**
MATH 304 Matrix Algebra & Appl	4	GEN ED (PERSPECTIVES)	3
DESN 349 Information Design	3	CMSC 452 Data Mining	4
GEN ED	3	GEN ED	3
GEN ED (ADVANCED WRITING)	3	GEN ED	3
CMSC 450 Artificial Intelligence	4	Elective or Minor Course	3
Totals Credits for Semester	**17**	**Totals Credits for Semester**	**16**

Fourth Year

Fall Semester		Spring Semester	
Recommended Course Selections	**Credits**	**Recommended Course Selections**	**Credits**
GEN ED	4	CAPSTONE	1-3
GEN ED	3	CMSC 453 Large-Scale Data Analytics & Visual	4
GEN ED	3	GEN ED	3
Elective or Minor Course	3	Elective or Minor Course	3
Elective or Minor Course	3	Elective o Minor Course	3
Totals Credits for Semester	**16**	**Totals Credits for Semester**	**13-15**

Date Updated: 5/13/2025

Notes: Minor Required for Degree.