COLLEGE OF NATURAL SCIENCES & MATHEMATICS
Bachelor of Science, Mathematics (Data Science Option)
Four-Year Academic Map 2024-2025

YEAR 1

Semester 1 Fall			Semester 2 Spring			Total
ENGL 1301	First Year Writing I	3	ENGL 1302	First Year Writing II	3	
MATH 2413	Calculus I	4	MATH 2414	Calculus II	4	
CORE	US History	3	CORE	US History	3	
GOVT 2306	US & TX Constitution & Politics	3	GOVT 2305	US Gov't: Cong, Pres, & Courts	3	
	NSM Approved Natural Science Lecture	3		NSM Approved Natural Science lecture	3	
Semester Hours		16	Semester Hours		16	32

YEAR 2

Semester 1 Fall			Semester 2 Spring			Total
MATH 2415	Calculus III	4	MATH 3325	Transitions to Advanced Math	3	
MATH 2318	Linear Algebra	3	MATH 3331	Differential Equations	3	
MATH 2131	Linear Algebra Lab	1	COSC 2306	Data Programming	3	
COSC 1336	Computer Science & Programming	3	CORE	Creative Arts	3	
	NSM Approved Natural Science Lecture and Lab	4		NSM Approved Natural Science Lecture and Lab	4	
Semester Hours		15	Semester Hours		16	31

YEAR 3

Semester 1 Fall			Semester 2 Spring			Total
MATH 3333	Intermediate Analysis	3	MATH XXXX	Approved Advanced MATH elective course	3	
MATH 3338	Probability	3	MATH 3349	Inferential Statistics	3	
CORE	Language, Philosophy, & Culture	3	CORE	Writing in the Disciplines	3	
CORE	Social & Behavioral Sciences	3		Capstone***/Free Elective	6	
	Capstone***/Free Elective	3				
Semester Hours		15	Semester Hours		15	30

YEAR 4

Semester 1 Fall			Semester 2 Spring			Total
MATH 4322	Intro. to Data Science & Machine Learning	3	MATH 4323	Data Science & Statistical Learning	3	
MATH 43XX	4000-level MATH Elective	3	MATH 4389	Survey of Undergraduate Math	3	
	Capstone***/Free Elective	9		Capstone***/Free Elective	6	
Semester Hours		15	Semester Hours		12	27
						120

***Students in the Math Data Science Option are strongly encouraged to pursue a minor in Computer Science or Computer Science-Data Science. Students should meet with their academic advisor to formulate their own plan.