

COLLEGE OF NATURAL SCIENCES & MATHEMATICS

Bachelor of Science, Mathematics (Data Science Option)

Four-Year Academic Map 2023-2024

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	Social & Behavioral Sciences	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	Approved 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	Creative Arts	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 Sci. & 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	
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	Semester Hours		15	Semester Hours		12	27
							120

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