

COLLEGE OF NATURAL SCIENCES & MATHEMATICS

Bachelor of Science, Mathematics (Data Science Option)

Four-Year Academic Map 2020-2021

YEAR 1	Semester 1 Fall			Semester 2 Spring			Total	
	ENGL 1303	First Year Writing I	3	ENGL 1304	First Year Writing II	3		
	MATH 1431	Calculus I	4	MATH 1432	Calculus II	4		
	HIST 1377	The United States to 1877	3	HIST 1378	The United States since 1877	3		
	POLS 1336	US & TX Constitution & Politics	3	POLS 1337	US Gov't: Cong, Pres, & Courts	3		
		Natural Science lecture (Must be approved for majors in the discipline)	3		Natural Science (Must be approved for majors in the discipline)	3		
Semester Hours			16	Semester Hours			16	32

YEAR 2	Semester 1 Fall			Semester 2 Spring			Total	
	MATH 2433	Calculus III	4	MATH 3325	Transitions to Advanced Math	3		
	MATH 2331	Linear Algebra	3	MATH 3331	Differential Equations	3		
	MATH 2131	Linear Algebra Lab	1	COSC 2306	Data Programming	3		
	COSC 1306	Computer Science & Programming	3	CORE	Social & Behavioral Sciences	3		
		Natural Science lecture & lab (Must be approved for majors in the discipline)	4		Natural Science lecture & lab (Must be approved for majors in the discipline)	4		
Semester Hours			15	Semester Hours			16	31

YEAR 3	Semester 1 Fall			Semester 2 Spring			Total	
	MATH 3333	Intermediate Analysis	3	MATH ADV.	Approved elective course	3		
	MATH 3338	Probability	3	MATH 3339	Statistics for the Sciences	3		
	CORE	Language, Philosophy, & Culture	3	CORE	Writing in the Disciplines	3		
	CORE	Creative Arts	3		Minor/Free Electives	6		
		Minor/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		
		Minor/Free Electives	9		Minor/Free Electives	6		
	Semester Hours			15	Semester Hours			12
							120	