East Central University Mathematics- B.S. Data Science Concentration

0295/UG24

			0295	/UG24			
Student Name:				Student ID #			
30 hours at ECU completed				Advisor:			
60 hours at S							
40 hours upper level completed				OSRHE Computer Proficiency Requirement met			
Requirements	1. 11		Hours	Requirements			Hours
0 0		e are general education courses.	10		•		10
I. General Education			40	III. Related Work			12
A maximum of 12 h	hours may he	counted in both the major/related work and genera	al education	CMPSC	1113	Computer Programming I	
II. Major in Data Science Mathematics			46-52	CMPSC	1133	Computer Programming I	
in mujor in De	ata Scienc		10 02	CMPSC	3313	Advanced Computer Languages	
A. Required	A. Required Mathematics Core			CMPSC	4213	Data Base Design	
MATH	1513	College Algebra †	22-28	2 0			
MATH	1223	Intro to Probability and Statistics		IV. Minor			
MATH	1713	Trigonometry +		Not Required	1		
MATH	2825	Calculus and Analytic Geometry I					
MATH	3025	Calculus and Analytic Geometry II		V. Electives			22-31
MATH	3033	Calculus and Analytic Geometry III		A		-1	4
MATH	3713	Linear Algebra				rel course not required by the degree that is utilized to completion. Elective courses are chosen according to	
MATH	4923	Perspectives in Mathematics				mpletion of a minor, certificate, or additional major.	
	6 0		10	X71 / 111	р •	•	100
C. Required for Concentration in Data Science			18	VI. Total Hours Required			120
CPSMA CPSMA	2103 3813	Data Structures		VII Special Deer			
CPSMA	4313	Data Mining Data Processing and Visualization			VII. Special Requirements Math 1413 "teachers" or "methods" courses will not be counted in the major.		
CPSMA	4513	Data Applications in Business		Main 1415 teac	chers or me	schods courses will not be counted in the major.	
MATH	3513	Mathematical Statistics		+ With department	tal approval.	students may omit MATH 1513 and MATH 1713 a	and begin with
MATH	3583	Applied Statistics		MATH 2825.	un upprovui,		
	5505	rippiled Sullisites					
D. Required	Mathemat	ics Electives	6				
Two of the fe			-				
CPSMA	3913	Discrete Mathematics					
CPSMA	3933	Operations Research					
CPSMA	4413	Numerical Methods					