Name:

Date:

PeopleSoft ID:

Checklist for BS in Mathematics - Data Science Option

Tr	UH	MATHEMATICS (46 Hours; MUST have 30 advanced hours):	*Elective Must Come From List Below:
		MATH 2413 Calculus I	(Check Catalog for Pre-Requisites)
		MATH 2414 Calculus II	MATH 3330 Abstract Algebra
		MATH 2415 Calculus III	MATH 3334 Advanced Multivariable & Vector Calculus
		MATH 2131 Linear Algebra Lab	MATH 4315 Graph Theory with Applications
		MATH 2318 Linear Algebra	MATH 4320 Introduction to Stochastic Processes
		MATH 3325 Transition to Advanced Mathematics	MATH 4331 Introduction to Real Analysis I
		MATH 3331 Intermediate Differential Equations	MATH 4335 Partial Differential Equations
		MATH 3333 Intermediate Analysis	MATH 4339 Multivariate Statistics
		MATH 3338 Probability	MATH 4353 Intro to Numerical Analysis in Scientific Computing
		MATH 3336 Probability MATH 3349 Inferential Statistics	MATH 4364 Intro to Numerical Analysis in Scientific Computing MATH 4366 Numerical Linear Algebra
		MATH 3349 Survey of Undergraduate Mathematics	MATH 4300 Multiencal Linear Algebra I
		, ,	MATTING T Advanced Linear Algebra i
		MATH 43 3 hours 4000-level MATH elective **	Can be satisfied by any 4000-level MATH elective
F		MATH SENIOR SEQUENCE (6 Hours):	
		MATH 4322 Introduction to Data Science and Machine Learning	
		MATH 4323 Data Science and Statistical Learning	
		COMPUTER SCIENCE REQUIREMENTS (6 Hours):	Students are strongly encouraged to fulfill the NSM Capstone by
		COSC 1336 Computer Science & Programming	completion of a minor in Computer Science or a minor in
		COSC 2306 Data Programming	Data Science-Computer Science
· · · ·	-	OR 2436 Programming and Data Structures	
			NSM CAPSTONE (Minimum 6 Advanced Hours):
г <u>г</u>		NSM APPROVED NATURAL SCIENCES (14 Hours):	
		1 hr NSM Natural Science Lab	Must choose Minor Senior Research Project
		1 hr NSM Natural Science Lab	from one of the Double Major Senior Honors Thesis
		3 hr NSM Natural Science Lecture	following: Double Degree I teachHouston
		3 hr NSM Natural Science Lecture	
		3 hr NSM Natural Science Lecture	
		3 hr NSM Natural Science Lecture	Tr UH
		CORE (Check UH Catalog or UH Core Website for Pre-Requisites)	
Tr	UH	COMMUNICATION (6 Hours):	
	-	ENGL 1301 First Year Writing I	
		ENGL 1302 First Year Writing II	
			FREE ELECTIVES
		HIST & GOVT REQUIREMENTS (12 Hours):	(Additional hours to complete a total of 120 hours .
		American History (3 Hours)	Tr UH Must complete at least 36 advanced hours)
		American History (3 Hours)	
\vdash		GOVT 2305 U.S. Government: Congress, President, and Court	
		GOVT 2306 U.S. and Texas Constitutions and Politics	
		ADDITIONAL CORE (12 Hours): Choose from UH Core Website	
		Language, Philosophy & Culture (3 Hours)	
		Creative Arts (3 Hours)	
		Social & Behavioral Sciences (3 Hours)	
		Writing in the Disciplines (3 Hours)	
RUL	ES	YOU NEED TO KNOW:	
1. MINIMUI	M of a	2.00 GPA in cumulative, major, and minor GPA to graduate	
2. PRE-RE	Q RU	LE: Must earn C- or better in pre-requisite for MATH courses	
3. <u>C- RULE</u>	: MAX	KIMUM of 6 hours of grades below C- allowed in MATH courses	
4. LAST 30	hour	s must be exclusively completed at UH	
5. MAXIMU	JM of 6	6 W's allowed during entire undergraduate career	
6. MINIMUI	M of 3	6 advanced hours and 120 total hours to graduate	

7. MAXIMUM of 66 lower level transfer hours may be applied towards UH degree