

Name:

Date:

PeopleSoft ID:

Check List for BS in Mathematics - teachHOUSTON

Tr	UH	MATHEMATICS (46 Hours; MUST have 30 advanced hours):
		MATH 2413 (1431) Calculus I Fall, Spring, Sum
		MATH 2414 (1432) Calculus II Fall, Spring, Sum
		MATH 2415 (2433) Calculus III Fall, Spring, Sum
		MATH 2131 Linear Algebra Lab Fall, Spring, Sum
		MATH 2318 (2331) Linear Algebra Fall, Spring, Sum
		MATH 3311 Functions and Modeling Fall
		MATH 3325 Transition to Advanced Mathematics Fall, Spring, Sum
		MATH 3330 Abstract Algebra Fall, Spring, Sum
		MATH 3331 Differential Equations Fall, Spring, Sum
		MATH 3333 Intermediate Analysis Fall, Spring, Sum
		MATH 3379 Introduction to Higher Geometry
		MATH 4389 Survey of Undergraduate Mathematics Fall, Spring, Sum
		MATH 43_____ 3 hours 4000-level MATH elective

Tr	UH	MATH SENIOR SEQUENCE (6 Hours):
		MATH 43_____ 3 hours 4000-level MATH elective
		MATH 43_____ 3 hours 4000-level MATH elective

Possible Senior Sequences: 4331/4332, 4377/4378, 4335/4336, 4335/4362, 4350/4351, 4364/4365, 4364/4366, 4320/4380, 4309/4310

Tr	UH	NSM Natural Sciences (14 Hours):
		1 hr Natural Sciences Lab***
		1 hr Natural Sciences Lab***
		3 hours NSM Approved Natural Science***
		3 hours NSM Approved Natural Science***
		3 hours NSM Approved Natural Science
		BIOL/CHEM/PHYS 4340 (Research Methods for teachHouston)

***Indicates ALL courses must be in the same subject and approved for NSM majors

Tr	UH	CORE (Check UH Catalog or UH Core Website for Pre-Requisites)
		COMMUNICATION (6 Hours):
		ENGL 1301 (1303) First Year Writing I
		ENGL 1302 (1304) First Year Writing II

Tr	UH	STATE REQUIREMENTS (12 Hours):
		American History (3 Hours)
		American History (3 Hours)
		GOVT 2305 (POLS 1337) U.S. Government: Congress, President, and Court
		GOVT 2306 (POLS 1336) U.S. and Texas Constitutions and Politics

Tr	UH	FROM APPROVED CORE LIST (12 Hours): Choose from UH Core Website
		Creative Arts (3 Hours)
		Language, Philosophy & Culture (3 Hours)
		Social & Behavioral Sciences (3 Hours)
		Writing in the Disciplines (3 Hours)

RULES YOU NEED TO KNOW:

Numbers in parentheses indicate UH course numbers prior to Fall 2021.

1. MINIMUM of a 2.00 GPA in cumulative, major, and minor GPA to graduate
2. **PRE-REQ RULE:** Must earn C- or better in pre-requisite for MATH courses
3. **C- RULE:** MAXIMUM of 6 hours of grades below C- allowed in UH MATH courses
4. LAST 30 hours must be exclusively completed at UH
5. MAXIMUM of 6 W's allowed during entire undergraduate career
6. MINIMUM of 36 advanced hours and 120 total hours to graduate
7. MAXIMUM of 66 lower level transfer hours may be applied towards UH degree

*EXAMPLES OF 4000-LEVEL MATH ELECTIVES		
S	MATH 4309	Mathematical Biology
E	MATH 4310	Biostatistics
S	MATH 4315	Graph Theory with Applications
F	MATH 4320	Introduction to Stochastic Processes
F	MATH 4322	Introduction to Data Science and Machine Learning
S	MATH 4323	Data Science and Statistical Learning
F/S	MATH 4331/4332	Introduction to Real Analysis
**	MATH 4335/4336	Partial Differential Equations
**	MATH 4339	Multivariate Statistics
**	MATH 4350/4351	Differential Geometry
S	MATH 4355	Mathematics of Signal Representation
**	MATH 4362	Theory of Ordinary Differential Equations
F/S	MATH 4364/4365	Numerical Analysis
F	MATH 4366	Numerical Linear Algebra
F/Su	MATH 4377	Advanced Linear Algebra I
S/Su	MATH 4378	Advanced Linear Algebra II
S	MATH 4380	Mathematical Introduction to Options
S	MATH 4383	Number Theory
F	MATH 4388	History of Mathematics

F - Fall Semester, S - Spring Semester, Su - Summer Semester
****Indicates the course is not offered at consistent intervals**

UH	teachHOUSTON Program (NSM CAPSTONE):	
	CUIN 2300	Intro to STEM Teaching
	CUIN 3350	Knowing and Learning Science and Mathematics
	CUIN 3351	Classroom Interactions in Science and Mathematics
	CUIN 4350	Multiple Teaching Strategies for Math and Science
	EDUC 4314	Student Teaching: Secondary
	EDUC 4315	Student Teaching: Secondary

Research Methods requirement is listed within the NSM Natural Sciences Requirement

FREE ELECTIVES:		
(Additional hours to complete a total of 120 hours, including at least 36 advanced hours)		
Tr	UH	

Advisor: _____