

Name:

Date:

PeopleSoft ID:

Checklist for BA in Mathematics - teachHOUSTON

Tr UH **MATHEMATICS (46 Hours; MUST have 30 advanced hours):**

		MATH 2413	Calculus I
		MATH 2414	Calculus II
		MATH 2415	Calculus III
		MATH 2131	Linear Algebra Lab
		MATH 2318	Linear Algebra
		MATH 3311	Functions and Modeling
		OR MATH 3339 Statistics for the Sciences	
		OR MATH 3349 Inferential Statistics	
		MATH 3325	Transition to Advanced Mathematics
		MATH 3330	Abstract Algebra
		MATH 3331	Intermediate Differential Equations
		MATH 3333	Intermediate Analysis
		MATH 3379	Introduction to Higher Geometry Spring
		MATH 4389	Survey of Undergraduate Mathematics
		MATH 43___	3 hours 4000-level MATH elective

MATH SENIOR SEQUENCE (6 Hours):

		MATH 43___	3 hours 4000-level MATH elective
		MATH 43___	3 hours 4000-level MATH elective

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

NSM APPROVED NATURAL SCIENCES (7 Hours):

			1 hr NSM Natural Science Lab
			3 hr NSM Natural Science Lecture
			3 hr NSM Natural Science Lecture

			3 hours 2000-level Foreign Language
			3 hours 2000-level Foreign Language

ALL 6 hours Foreign Language must be in the SAME Language

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

HIST & GOVT REQUIREMENTS (12 Hours):

			American History (3 Hours)
			American History (3 Hours)
		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)

EXAMPLES OF 4000-LEVEL MATH ELECTIVES

MATH 4309	Mathematical Biology
MATH 4310	Biostatistics
MATH 4320	Introduction to Stochastic Processes
MATH 4322	Introduction to Data Science and Machine Learning
MATH 4323	Data Science and Statistical Learning
MATH 4331	Introduction to Real Analysis I
MATH 4335	Partial Differential Equations
MATH 4339	Multivariate Statistics
MATH 4350	Differential Geometry
MATH 4351	Calculus on Manifolds
MATH 4355	Mathematics of Signal Representation
MATH 4362	Theory of Differential Equations & Nonlinear Dynamics
MATH 4364	Intro. to Numerical Analysis in Scientific Computing
MATH 4365	Numerical Methods for Differential Equations
MATH 4366	Numerical Linear Algebra
MATH 4377	Advanced Linear Algebra I
MATH 4378	Advanced Linear Algebra II
MATH 4380	Mathematical Introduction to Options
MATH 4383	Number Theory & Cryptography
MATH 4388	History of Mathematics

Bold courses are part of a senior sequence

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
	BIOL/CHEM/PHYS 4340	Research Methods for teachHouston
	EDUC 4314	Student Teaching: Secondary
	EDUC 4315	Student Teaching: Secondary

Under certain conditions, Research Methods may also apply under the NSM Natural Sciences requirement

FREE ELECTIVES

(Additional hours to complete a total of 120 hours and 36 advanced hours as needed)

Tr	UH	

RULES YOU NEED TO KNOW:

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