Name:

Date:

PeopleSoft ID:

Checklist for BS in Mathematics - teachHOUSTON

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Tr	UH	MATHEMATICS (46 Hours; MUST have 30 advanced hours):	EXAM
		MATH 2413 Calculus I	MATH 4309
		MATH 2414 Calculus II	→ MATH 4310
		MATH 2415 Calculus III	MATH 4320
		MATH 2131 Linear Algebra Lab	MATH 4322
		MATH 2318 Linear Algebra	MATH 4323
		MATH 3311 Functions and Modeling	MATH 4331
		OR MATH 3339 Statistics for the Sciences	MATH 4335
		OR MATH 3349 Inferential Statisitics	MATH 4339
		MATH 3325 Transition to Advanced Mathematics	MATH 4350
		MATH 3330 Abstract Algebra	MATH 4351
		MATH 3331 Intermediate Differential Equations	MATH 4355
		MATH 3333 Intermediate Analysis	MATH 4362
		MATH 3379 Introduction to Higher Geometry Spring	MATH 4364
		MATH 4389 Survey of Undergraduate Mathematics	MATH 4365
		MATH 43 3 hours 4000-level MATH elective	MATH 4366
			MATH 4377
		MATH SENIOR SEQUENCE (6 Hours):	MATH 4378
		MATH 43 3 hours 4000-level MATH elective	→ MATH 4380
		MATH 43 3 hours 4000-level MATH elective	MATH 4383
ossibl	e Senio	or Sequences: 4309/4310, 4331/4332, 4335/4362,	MATH 4388
		1 hr NSM Natural Science Lab 1 hr NSM Natural Science Lab 3 hr NSM Natural Science Lecture 3 hr NSM Natural Science Lecture 3 hr NSM Natural Science Lecture BIOL/CHEM/PHYS 4340 (Research Methods for teachHouston)	
			CU ED ED
		CORE (Check UH Catalog or UH Core Website for Pre-Requisites)	CU ED
Tr	UH		ED
Tr	UH	CORE (Check UH Catalog or UH Core Website for Pre-Requisites)	ED
Tr	UH	CORE (Check UH Catalog or UH Core Website for Pre-Requisites)	ED
Tr	UH	CORE (Check UH Catalog or UH Core Website for Pre-Requisites) <u>COMMUNICATION (6 Hours):</u> ENGL 1301 First Year Writing I	ED ED Research
Tr	UH	CORE (Check UH Catalog or UH Core Website for Pre-Requisites) COMMUNICATION (6 Hours): ENGL 1301 First Year Writing I ENGL 1302 First Year Writing II HIST & GOVT REQUIREMENTS (12 Hours): American History (3 Hours)	ED ED Research
Tr	UH	CORE (Check UH Catalog or UH Core Website for Pre-Requisites) COMMUNICATION (6 Hours): ENGL 1301 First Year Writing I ENGL 1302 First Year Writing II HIST & GOVT REQUIREMENTS (12 Hours):	ED ED Research
Tr	UH	CORE (Check UH Catalog or UH Core Website for Pre-Requisites) 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	Research <u>FR</u> (Ac
Tr	UH	CORE (Check UH Catalog or UH Core Website for Pre-Requisites) 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) American History (3 Hours)	Research <u>FR</u> (Ac
Tr		CORE (Check UH Catalog or UH Core Website for Pre-Requisites) 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	Research <u>FR</u> (Ac
		CORE (Check UH Catalog or UH Core Website for Pre-Requisites) COMMUNICATION (6 Hours): ENGL 1301 First Year Writing I ENGL 1302 First Year Writing II HIST & GOVT REQUIREMENTS (12 Hours):	Research <u>FR</u> (Ac
Tr		CORE (Check UH Catalog or UH Core Website for Pre-Requisites) 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	Research <u>FR</u> (Ac

	ADDITIONAL CONL (12	riours. Choose nom on core website
		Language, Philosophy & Culture (3 Hour
		Creative Arts (3 Hours)
		Social & Behavioral Sciences (3 Hours)
		Writing in the Disciplines (3 Hours)

RULES YOU NEED TO KNOW:

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

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				

eachHOUSTON 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

h Methods requirement is listed within the NSM Natural Sciences Requirement

REE ELECTIVES:

Additional hours to complete a total of 120 hours, including at east 36 advanced hours)