

Name:

Date:

PeopleSoft ID:

Checklist for BS in Mathematics

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 3325	Transition to Advanced Mathematics
		MATH 3330	Abstract Algebra
		MATH 3331	Intermediate Differential Equations
		MATH 3333	Intermediate Analysis
		MATH 3334	Advanced Multivariable & Vector Calculus
		OR MATH 3363 Introduction to Partial Differential Equations	
		OR MATH 3364 Introduction to Complex Analysis	
		MATH 4389	Survey of Undergraduate Mathematics
		MATH 33__	3 hours advanced MATH elective
		MATH 43__	3 hours 4000-level MATH elective

MATH SENIOR SEQUENCE (6 Hours):

		MATH 43	3 hrs MATH Senior Sequence elective
		MATH 43__	3 hrs MATH Senior Sequence elective

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

NSM Approved Natural Sciences (14 Hours):

			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
			3 hr NSM Natural Science Lecture

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 MATHEMATICS ELECTIVES	
(Check Catalog for Pre-Requisites)	
MATH 3338	Probability
MATH 3339	Statistics for the Sciences
MATH 3340	Intro to Fixed Income Math
MATH 3349	Inferential Statistics
MATH 3379	Introduction to Higher Geometry
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 and Cryptography
MATH 4388	History of Mathematics

Bold courses are part of a senior sequence

NSM CAPSTONE OPTIONS

- Must choose from one of the following:
- | | |
|--|--|
| <input type="checkbox"/> Minor | <input type="checkbox"/> Senior Research Project |
| <input type="checkbox"/> Double Major | <input type="checkbox"/> Senior Honors Thesis |
| <input type="checkbox"/> Double Degree | <input type="checkbox"/> teachHouston |

Tr	UH	

FREE ELECTIVES

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

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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. See Residency Rule here: <https://publications.uh.edu/content.php?catoid=56&navoid=21157>
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