

Name:

Date:

PeopleSoft ID:

# Checklist for BS in Mathematics - Mathematical Finance Option

Tr	UH	<b>MATHEMATICS (46 Hours; MUST have 30 advanced hours):</b>	
		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 3331	Intermediate Differential Equations
		MATH 3333	Intermediate Analysis
		MATH 3338	Probability
		MATH 3349	Inferential Statistics
		MATH 3340	Introduction to Fixed Income Math Fall
		MATH 4389	Survey of Undergraduate Mathematics
		MATH 43	3 hours 4000-level MATH elective

<b>*EXAMPLES OF 4000-LEVEL MATH ELECTIVES</b>	
<b>(Check catalog for full list and pre-requisites)</b>	
MATH 4315	Graph Theory with Applications
MATH 4322	Introduction to Data Science and Machine Learning
MATH 4323	Data Science and Statistical Learning
MATH 4335	Partial Differential Equations
MATH 4350	Differential Geometry
MATH 4351	Calculus on Manifolds
MATH 4355	Mathematics of Signal Representation
MATH 4364	Intro. to Numerical Analysis in Scientific Computing
MATH 4366	Numerical Linear Algebra
MATH 4377	Advanced Linear Algebra I
MATH 4383	Number Theory and Cryptography
MATH 4388	History of Mathematics

<b>MATH SENIOR SEQUENCE (6 Hours):</b>	
	MATH 4320 Introduction to Stochastic Processes Fall
	MATH 4380 Mathematical Introduction to Options Spring

<b>ADDITIONAL REQUIREMENTS:</b>	
	ACCT 2301 Principles of Financial Accounting
	ACCT 2302 Principles of Managerial Accounting

	ECON 3332 Intermediate Microeconomics **
	ECON 3334 Intermediate Macroeconomics **

**\*\* Declared Math-Finance students may skip pre-reqs: ECON 2301, 2302  
ECON 2301 & 2302 are required for Economics minor**

<b>NSM APPROVED NATURAL SCIENCES (14 Hours):</b>	
	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	<b>COMMUNICATION (6 Hours):</b>
		ENGL 1301 First Year Writing I
		ENGL 1302 First Year Writing II

<b>HIST &amp; GOVT REQUIREMENTS (12 Hours):</b>	
	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

<b>ADDITIONAL CORE (12 Hours):</b> 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)

Students are encouraged to fulfill the NSM Capstone by completion of a minor in the College of Business or the Economics department.

<b>NSM CAPSTONE (Minimum 6 Advanced Hours):</b>	
Must choose from one of the following:	<input type="checkbox"/> Minor <input type="checkbox"/> Double Major <input type="checkbox"/> Double Degree
	<input type="checkbox"/> Senior Research Project <input type="checkbox"/> Senior Honors Thesis <input type="checkbox"/> teachHouston

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

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<b>RULES YOU NEED TO KNOW:</b>
1. MINIMUM of a 2.00 GPA in cumulative, major, and minor GPA to graduate
2. <b>PRE-REQ RULE:</b> Must earn C- or better in pre-requisite for MATH courses
3. <b>C- RULE:</b> MAXIMUM of 6 hours of grades below C- allowed in UH MATH courses
4. See Residency Rule here: <a href="https://publications.uh.edu/content.php?catoid=56&amp;navoid=21157">https://publications.uh.edu/content.php?catoid=56&amp;navoid=21157</a>
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