

Name:

Date:

General Catalog: 20__ - 20__

PeopleSoft ID:

Major Catalog: 20__ - 20__

Check List for BS in Mathematics

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

Tr	UH	
		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 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 3334 Advanced Multivariable Calculus Fall, Spring, Sum
		OR MATH 3335 Vector Analysis Fall, Spring
		OR MATH 3363 Introduction to Partial Differential Equations Fall, Spring, Sum
		OR MATH 3364 Introduction to Complex Analysis Fall, Spring
		MATH 4389 Survey of Undergraduate Mathematics Fall, Spring, Sum
		MATH ___3___ 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: 4331/4332, 4377/4378, 4335/4336, 4322/4323, 4335/4362, 4350/4351, 4364/4365, 4364/4366, 4320/4380, 4309/4310

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
		3 hours NSM Approved Natural Science

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

CORE (Check UH Catalog or UH Core Website for Pre-Requisites)

Tr	UH	COMMUNICATION (6 Hours):
		ENGL 1301 (1303) First Year Writing I
		ENGL 1302 (1304) First Year Writing II

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

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 202

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 COSC courses
3. **C- RULE:** MAXIMUM of 6 hours of grades below C- allowed in UH COSC 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 MATHEMATICS ELECTIVES

(Check Catalog for Pre-Requisites)

F/S/Su	MATH 3336	Discrete Mathematics
F/S/Su	MATH 3338	Probability
F/S/Su	MATH 3339	Statistics for the Sciences
F	MATH 3340	Introduction to Fixed Income Mathematics
S	MATH 3379	Introduction to Higher Geometry
S	MATH 4309	Mathematical Biology
F	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 4333	Advanced Abstract Algebra
F/S	MATH 4335/4336	Partial Differential Equations
**	MATH 4339	Multivariate Statistics
F/S	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/S/Su	MATH 4377	Advanced Linear Algebra I
S/Su	MATH 4378	Advanced Linear Algebra II
S	MATH 4380	Mathematical Introduction to Options
F	MATH 4388	History of Mathematics

F - Fall Semester, S - Spring Semester, Su - Summer Semester

**Indicates the course is not offered at consistent intervals

NSM CAPSTONE (Minimum 6 Advanced Hours):

- 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"/> Dual Degree | <input type="checkbox"/> teachHouston |

Tr	UH	

FREE ELECTIVES

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

Tr	UH	

May require up to 25 hours of free electives, depending on NSM Capstone selected

Advisor: _____