Check List for BA in Mathematics - teachHOUSTON

**EXAMPLES OF 4000-LEVEL MATH ELECTIVES**

(Chart Catalog for Pre-Requisites)
- S MATH 4315 Graph Theory with Applications
- F MATH 4320 Introduction to Stochastic Processes
- F/S MATH 4313/4332 Introduction to Real Analysis
- MATH 4333 Advanced Abstract Algebra
- MATH 4353/4356 Partial Differential Equations
- MATH 4350/4351 Differential Geometry
- S MATH 4355 Mathematics of Signal Representation
- F/S MATH 4364/4365 Numerical Analysis
- F/S MATH 4377 Advanced Linear Algebra I
- S/Su MATH 4378 Advanced Linear Algebra II
- S MATH 4380 Mathematical Introduction to Options
- S MATH 4383 Number Theory
- F MATH 4388 History of Mathematics
- ** MATH 4390 Applied Mathematics Seminar
- F - Fall Semester, S - Spring Semester, Su - Summer Semester

**Indicates the course is not offered at consistent intervals**

MATH SENIOR SEQUENCE (6 Hours):
- MATH 4311 Calculus Fall, Spring, Sum
- MATH 4312 Calculus II Fall, Spring, Sum
- MATH 4313 Linear Algebra Fall, Spring, Sum
- MATH 4314 Calculus III Fall, Spring, Sum
- MATH 3325 Transition to Advanced Mathematics
- MATH 3330 Abstract Algebra Fall, Spring, Sum
- MATH 3331 Differential Equations Fall, Spring, Sum
- MATH 3333 Intermediate Analysis Fall, Spring, Sum
- OR MATH 3334 Advanced Multivariable Calculus Fall, Spring, Sum
- OR MATH 3335 Vector Analysis Fall, Spring
- OR MATH 3364 Introduction to Complex Analysis Fall
- MATH 3379 Intro to Higher Geometry (WID) Spring
- MATH 4389 Survey of Undergraduate Mathematics Fall, Spring

*MATH 3325 is a required pre-requisite for MATH 3330 and MATH 3333.

MATH 43__ 3 hours 4000-level MATH elective

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NSM Natural Sciences (7 Hours):
- 1 hr Natural Sciences Lab*** (Lab must be in the same discipline)
- 3 hours NSM Approved Natural Science***
- 3 hours NSM Approved Natural Science***

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

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

COMMUNICATION (6 Hours):
- ENGL 1303 First Year Writing I
- ENGL 1304 First Year Writing II

STATE REQUIREMENTS (12 Hours):
- HIST 1376 or 1377 The United States to 1877
- HIST 1378 or 1379 The United States Since 1877
- POLS 1336 U.S. and Texas Constitutions and Politics
- POLS 1337 U.S. Government: Congress, President, and Court

FROM APPROVED CORE LIST (12 Hours): Choose from UH Core Website

Humansities (3 Hours)
Visual/Performing Arts (3 Hours)
Social & Behavioral Science (3 Hours)
Writing in the Disciplines (3 Hours)*

FREE ELECTIVES

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

RULES YOU NEED TO KNOW:
1. MINIMUM of a 2.00 GPA in cumulative, major, and minor GPA to graduate
2. C-RULE: MAXIMUM of 6 hours of grades below C- allowed in UH MATH courses
3. LAST 30 hours must be exclusively completed at UH
4. MAXIMUM of 6 W’s allowed during entire undergraduate career
5. MINIMUM of 36 advanced hours and 120 total hours to graduate
6. MAXIMUM of 66 lower level transfer hours may be applied towards UH degree
7. At 60 hours, must request a Major Degree Plan *REQUIRED TO GRADUATE*

Advisor: ______________________________________________________