# Check List for BA in Mathematics

## Mathematics Electives (46 Hours; MUST have 30 advanced hours): 
- **MATH 1431**: Calculus I Fall, Spring, Sum
- **MATH 1432**: Calculus II Fall, Spring, Sum
- **MATH 2131**: Linear Algebra Lab Fall, Spring, Summer
- **MATH 2331**: Linear Algebra Fall, Spring, Sum
- **MATH 2433**: Calculus III Fall, Spring, Summer
- **MATH 3336**: Discrete Mathematics
- **MATH 3338**: Probability
- **MATH 2331**: Linear Algebra Fall, Spring, Summer
- **MATH 3339**: Statistics for the Sciences
- **MATH 2433**: Calculus III Fall, Spring, Sum
- **MATH 3330**: Abstract Algebra Fall, Spring, Sum
- **MATH 3331**: Differential Equations Fall, Spring, Sum
- **MATH 3332**: Intermediate Analysis Fall, Spring, Sum
- **MATH 3334**: Advanced Multivariable Calculus Fall, Spring, Sum
- **MATH 4389**: Survey of Undergraduate Mathematics

### Mathematics Senior Sequence (6 Hours):
- **MATH 4309**: Mathematical Biology
- **MATH 4310**: Biostatistics
- **MATH 4315**: Graph Theory with Applications
- **MATH 4319**: Introduction to Fixed Income Mathematics
- **MATH 4320**: Introduction to Stochastic Processes

### NSM Natural Sciences (7 Hours):
- 1 hr Natural Sciences Lab
- 3 hrs NSM Approved Natural Science
- 3 hrs NSM Approved Natural Science

### CORE

- **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

### 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. 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
7. Maximum of 66 lower level transfer hours may be applied towards UH degree

Advisors: ________________________________________________