The diagram outlines the course requirements for the BA Mathematics degree at Texas State University for the 2018 catalog year. The degree is offered by the College of Science and Engineering and is intended to be used by students who start out at Texas State. The chart is subject to change and is not an official degree audit.

### Freshman Year
- **Fall Semester**
  - Modern language 1410
  - 3 hours of natural science (see advisor for options)
- **Spring Semester**
  - Modern language 1420
  - 3 hours of natural science (see advisor for options)
  - CS 1428 (F,S,Su)
  - Foundations of Computer Science I

### Sophomore Year
- **Fall Semester**
  - MATH 2310
- **Spring Semester**
  - Modern language 2320
  - Minor and/or elective hours (as needed, see advisor)

### Junior Year
- **Fall Semester**
  - MATH 3373 (F,S,Su)
  - Calculus III
  - MATH 3330 (F,S,Su)
  - Intro to Advanced Math
  - MATH 3377 (F,S,Su)
  - Linear Algebra
  - MATH 3330 (F,S)
  - Analysis I
  - MATH 4307 (F,S)
  - Modern Algebra

### Senior Year
- **Fall Semester**
  - MATH 3380 (F,S)
  - Analysis II
  - MATH 4315 (F)
  - Topology
  - MATH 4330 (S)
  - Modern Algebra

### 9 hours MATH advanced electives:
- MATH 3305 – Intro to Prob & Stats (F,S,Su)
- MATH 3323 – Differential Equations (F,S,Su)
- MATH 3383 – Numerical Analysis I (F)
- MATH 3398 – Discrete Math II (F,S,Su)
- MATH 3345 – Det. Operations Research (F)
- MATH 4305 – Prob & Stats (S)
- MATH 4310 – Combinatorics (S)
- MATH 3325 – Number Systems (S)
- MATH 4306 – Fourier Series (S)
- MATH 4382 – Modern History of Math
- MATH 4336 – Studies in Applied Math

### ENG 23XX or ENG 3303
- (ENG 23XX must be different than literature taken for core)

### Key:
- Arrows indicate prerequisites.
- Arrows with dotted lines indicate co-requisites.
- Arrows with dashed lines are recommended prerequisites.
- Courses taught in specific semesters are indicated with the following codes: F-Fall, S-Spring, Su-Summer Session I or II
- Required WI courses:
  - Modern language
  - Mathematics
  - Modern language

### Notes:
- In addition to major courses, students must also complete all core and minor requirements (if applicable) and any other requirements for graduation.
- This is not an official degree audit and it is subject to change. This chart is intended to be used by students who start out at Texas State. Please contact the College of Science and Engineering Undergraduate Advising Center for advising.

### Core courses must be completed:
- US 1100
- COMM 1310
- PHIL 1305 or 1320
- EN 1310
- ENG 1320
- ENG 2310-2360
- HIST 1310
- HIST 1320
- ART/DAN/MU/TH 2313
- POSI 2310
- POSI 2320
- ANTH 1312/ECO 2301/ECO 2314/GEO 1310/PSY 1300/SOCI 1310

US 1100 & ENG 1310 recommended for first semester. HIST 1310/1320 not recommended for first semester.