BS – Applied Math (SC-BSD/APMA)  
2020 Catalog year: College of Science and Engineering

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.

Note: In addition to major courses, students must also complete all core and minor requirements (if applicable) and any other requirements for graduation.

### Core courses must be completed:
- US 1100
- ENG 1310
- ENG 1320
- PHIL 1305 or 1320
- MATH 1337
- MATH 1338
- ENGR 1301
- ENGR 1302

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

### Minor and/or elective courses
(as needed, see advisor)

### Key:
- Arrows indicate prerequisites.
- Arrows with dotted lines indicate corequisites.
- Arrows with dash lines are recommended prerequisites.
- Courses taught in specific semesters are indicated with the following codes:
  - F-Fall
  - Su-Summer Session I or II
  - S-Spring

Required WI courses: ENG 3303

Additional WI courses: MATH 4337A, 4337B, 4337C

### 6 hours MATH advanced electives:
(check prerequisites)
- ENGR 2301 – Engineering Mechanics (replaced ENGR 3375)
- MATH 3348 (F) – Deterministic Operations Research
- MATH 3398 (F,S,Su) – Discrete Math II
- MATH 4305 (F) – Probability & Statistics
- MATH 4306 (S) – Fourier Series
- MATH 4307 (F,S) – Modern Algebra
- MATH 4315 (S) – Analysis II
- MATH 4334 (see dept.) – Studies in Applied Math
- MATH 4337A – Topological Data Analysis
- MATH 4337B – Research in Discrete Mathematics
- MATH 4337C – Numerical Methods for Ordinary Diff Eq
- MATH 4350 (S) – Combinatorics
- MATH 4383 – Numerical Analysis II
- MATH 4383 – Intro to Finite Element Methods

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