BS – Applied Math

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.

**KEY:**
- Arrows indicate prerequisites.
- Arrows with dotted lines indicate co-requisites.
- Arrows with dash 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

**Courses taught in specific semesters are indicated with the following codes:**
- ENG 3303  Technical Writing
- MATH 2471 (F,S,Su)  Calculus I
- MATH 2472 (F,S,Su)  Calculus II
- MATH 2358 (F,S,Su)  Discrete Math I
- MATH 3373 (F,S)  Calculus III
- MATH 3305 (F,S,Su)  Intro to Probability & Statistics
- CS 1428 (F,S,Su)  Foundations of Computer Science I
- CS 2308 (F,S,Su)  Foundations of Computer Science II
- MATH 3323 (F,S,Su)  Differential Equations
- MATH 3305 (F,S,Su)  Intro to Probability & Statistics
- MATH 3330 (F,S)  Linear Algebra
- MATH 3377 (F,S,Su)  Engineering Mechanics
- MATH 3380 (F,S)  Analysis I
- MATH 3330 (F,S,Su)  Intro to Advanced Math
- MATH 3383 (F,S)  Numerical Analysis I
- MATH 3383 (F,S)  Numerical Analysis II
- MATH 3348 (F)  Deterministic Operations Research
- MATH 4305 (S)  Probability & Statistics
- MATH 4306 (S)  Fourier Series
- MATH 4315 (S)  Analysis II
- MATH 4350 (S)  Combinatorics
- MATH 3375 (F,S)  Engineering Mechanics
- MATH 3383 (F,S)  Numerical Analysis I
- MATH 3398 (F,S,Su)  Discrete Math II
- MATH 4307 (F,S)  Modern Algebra
- MATH 4336 (S)  Studies in Applied Math

Core courses must be completed:
- US 1100
- ENG 1310
- HIST 1310
- _POS1 2310

Required WI courses: ENG 3303
Additional WI courses:
- ENG 3303  Technical Writing

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

9 hours MATH advanced electives: (check prerequisites)
- MATH 3348 (F) – Deterministic Operations Research
- MATH 4305 (S) – Probability & Statistics
- MATH 4306 (S) – Fourier Series
- MATH 4315 (S) – Analysis II
- MATH 4350 (S) – Combinatorics
- MATH 3375 (F,S) – Engineering Mechanics
- MATH 3383 (F,S) – Numerical Analysis I
- MATH 3398 (F,S,Su) – Discrete Math II
- MATH 4307 (F,S) – Modern Algebra
- MATH 4336 (see dpt) – Studies in Applied Math
- MATH 4383  Numerical Analysis II

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