BS – Applied Math

(Freshman Spring semester)

- 3 hours of natural science (see advisor for options)

(Sophomore Fall semester)

- 3 hours of natural science (see advisor for options)

(Sophomore Spring semester)

- MATH 2358 (F,S,Su) Discrete Math I
  - TCCNS: MATH 2305

(Sophomore Fall semester)

- MATH 2393 (F,S,Su) Calculus III
  - (replaced MATH 3373)
  - TCCNS: MATH 2415

(Freshman Fall semester)

- MATH 2471 (F,S,Su) Calculus I
  - TCCNS: MATH 2413

(Fall semester)

- MATH 2472 (F,S,Su) Calculus II
  - TCCNS: MATH 2414

(Senior Fall semester)

- MATH 3305 (F,S,Su) Intro to Probability & Statistics

(Senior Spring semester)

- MATH 3330 (F,S,Su) Intro to Advanced Math

(TCCNS: MATH 3376 (F,S) Applied Linear Algebra (preferred)
  OR
  MATH 3377 Linear Algebra
  (student may not receive credit for both)

(Graduate core)

- MATH 3380 (F,S) Analysis I

(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

Required WI courses: ENG 3303
Additional WI courses: MATH 4337A, 4337B, 4337C

Core courses must be completed:

- 6 credits Core 010
- 3 credits Core 020
- 6 credits Core 030
- 3 credits Core 040
- 6 credits Core 050
- 3 credits Core 060
- 6 credits Core 070
- 3 credits Core 080
- 6 credits Core 090

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 (S) – Probability & Statistics

MATH 4306 (S) – Fourier Series

MATH 4307 (F,S) – Modern Algebra

MATH 4315 (F,S) – Analysis II

MATH 4327 – Introduction to Complex Analysis & App

MATH 4336 (see dpt) – Studies in Applied Math

MATH 4337A – Topological Data Analysis

MATH 4337B – Research in Discrete Mathematics

MATH 4337C – Numerical Methods for Ordinary Diff Equ

MATH 4350 (S) – Combinatorics

MATH 4338 – Numerical Analysis II

MATH 4393 – Intro to Finite Element Methods

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

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.

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 (S) – Probability & Statistics

MATH 4306 (S) – Fourier Series

MATH 4307 (F,S) – Modern Algebra

MATH 4315 (F,S) – Analysis II

MATH 4327 – Introduction to Complex Analysis & App

MATH 4336 (see dpt) – Studies in Applied Math

MATH 4337A – Topological Data Analysis

MATH 4337B – Research in Discrete Mathematics

MATH 4337C – Numerical Methods for Ordinary Diff Equ

MATH 4350 (S) – Combinatorics

MATH 4338 – Numerical Analysis II

MATH 4393 – Intro to Finite Element Methods

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

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.

**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 (S) – Probability & Statistics

MATH 4306 (S) – Fourier Series

MATH 4307 (F,S) – Modern Algebra

MATH 4315 (F,S) – Analysis II

MATH 4327 – Introduction to Complex Analysis & App

MATH 4336 (see dpt) – Studies in Applied Math

MATH 4337A – Topological Data Analysis

MATH 4337B – Research in Discrete Mathematics

MATH 4337C – Numerical Methods for Ordinary Diff Equ

MATH 4350 (S) – Combinatorics

MATH 4338 – Numerical Analysis II

MATH 4393 – Intro to Finite Element Methods

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

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.