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:**
- Communication Component Code 010 (6 cr)
- Mathematics Component Code 020 (3 cr)
- Life & Physical Science Component Code 030 (6 cr)
- Language, Philosophy, and Culture Component Code 040 (3 cr)
- Creative Arts Component Code 050 (3 cr)
- American History Component Code 060 (6 cr)
- Government/Political Science Component Code 070 (6 cr)
- Social and Behavioral Sciences Component Code 080 (3 cr)
- Component Area Option Codes 090, 091, 092, 093, and 094 (6 cr)

US 1100 may be required for some students. Some majors require specific courses to be chosen from a component area. Consult with an advisor to determine the most expedient way to complete core and major-specific requirements.

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

- CS 1428 (F,S,Su) Foundations of Computer Science I
- TCCNS: COSC 1417/1317

**9 hours MATH advanced electives:**
- MATH 3305 – Intro to Prob & Stats (F,S,Su)
- MATH 3323 – Differential Equations (F,S,Su)
- MATH 3325 – Number Systems (S)
- MATH 3348 – Dif. Operations Research (F)
- MATH 3383 – Numerical Analysis I (F)
- MATH 3398 – Discrete Math II (F,S,Su)
- MATH 4305 – Prob & Stats (S)
- MATH 4306 – Fourier Series (S)
- MATH 4327 – Introduction to Complex Analysis & App
- MATH 4336 – Studies in Applied Math
- MATH 4377A – Topological Data Analysis
- MATH 4377B – Research in Discrete Mathematics
- MATH 4379 – Numerical Methods for Ordinary Diff Eq
- MATH 4380 – Combinatorics (S)
- MATH 4383 – Numerical Analysis II
- MATH 4393 – Introduction to Finite Element Methods

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

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

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

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

MATH 3380 (F,S)
- Analysis I

MATH 3337 (F,S,Su)
- Linear Algebra

MATH 3330
- Topology
- Analysis II

MATH 3337
- Modern Algebra

MATH 4307
- Modern Algebra

Required WI courses:
- Additional WI courses: ENG 2310-2360, ENG 3303, MATH 3370A, 3370B, 3370C, 4382