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:
  - S  - Summer Session I or II
  - F  - Fall
  - Su - Summer Session I or II
  - S  - Spring

**Core courses must be completed:**

- US 1100
- HIST 1310
- ANTH 1312/ECO 2301/2314
- ENG 1310
- HIST 1320
- GEO 1310/PSY 1300/SCI 1310
- ENG 1320
- POSI 2310
- COMM 1310 or ENG 2310-2360
- PHIL 1305 or 1320
- POSI 2320
- ART/DAN/MU/TH 2313

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

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<table>
<thead>
<tr>
<th>Freshman Fall semester</th>
<th>Freshman Spring semester</th>
<th>Sophomore Fall semester</th>
<th>Sophomore Spring semester</th>
<th>Junior Fall semester</th>
<th>Junior Spring semester</th>
<th>Senior Fall semester</th>
<th>Senior Spring semester</th>
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<tbody>
<tr>
<td>3 hours of natural science (see advisor for options)</td>
<td>3 hours of natural science (see advisor for options)</td>
<td>MATH 2471 (F,S,Su) Calculus I</td>
<td>MATH 2472 (F,S,Su) Calculus II</td>
<td>MATH 2393 (F,S,Su) Calculus III</td>
<td>MATH 3330 (F,S,Su) Intro to Advanced Math</td>
<td>MATH 3380 (F,S) Analysis I</td>
<td>MATH 4330 (F) Topology</td>
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<td>or MATH 3330</td>
<td>MATH 4315 (F,S) Analysis II</td>
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<td>MATH 4307 (F,S) Modern Algebra</td>
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**Minor and/or elective courses (as needed, see advisor):**

- **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 – Det. 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 4316 – Studies in Applied Math
  - MATH 437A – Topological Data Analysis
  - MATH 437B – Research in Discrete Mathematics
  - MATH 437C – Numerical Methods for Ordinary Diff Eqn
  - MATH 4350 – Combinatorics (S)
  - MATH 4382 – Lit. Modern History of Math
  - MATH 4383 – Numerical Analysis II
  - MATH 4393 – Introduction to Finite Element Methods

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

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2020 Catalog year: College of Science and Engineering