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

### Required WI courses:
- Additional WI courses: ENG 2310-2360, ENG 3303, MATH 4337A, 4337B, 4337C

### 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.

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**BA – Mathematics (SC-BA/MATH)**

<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>
</tr>
</thead>
<tbody>
<tr>
<td>Modern language 1410</td>
<td>Modern language 1420</td>
<td>Modern language 2310</td>
<td>Modern language 2320</td>
<td>CS 1428 (F,S,Su)</td>
<td>MATH 2472 (F,S,Su)</td>
<td>ENG 23XX or MATH 3303 (ENG 23XX must be different than literature taken for core)</td>
<td></td>
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<tr>
<td>3 hours of natural science (see advisor for options)</td>
<td>3 hours of natural science (see advisor for options)</td>
<td>CS 1428 (F,S,Su) Foundations of Computer Science I TCCNS: COSC 1437/1337</td>
<td>Minor and/or elective hours (as needed, see advisor)</td>
<td>9 hours MATH advanced electives: MATH 3305 – Intro to Prob &amp; 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 &amp; Stats (S) MATH 4306 – Fourier Series (S) MATH 4327 – Introduction to Complete Analysis &amp; App MATH 4336 – 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 4383 – Numerical Analysis II MATH 4393 – Introduction to Finite Element Methods (check prerequisites)</td>
<td>or MATH 3330 or MATH 4315</td>
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</tr>
<tr>
<td>MATH 2471 (F,S,Su) Calculus I TCCNS: MATH 2413</td>
<td>MATH 2472 (F,S,Su) Calculus II TCCNS: MATH 2414</td>
<td>MATH 2393 (F,S,Su) Calculus III (replaced MATH 3373) TCCNS: MATH 2415</td>
<td>MATH 3300 (F,S,Su) Intro to Advanced Math</td>
<td>MATH 3380 (F,S) Analysis I</td>
<td>MATH 4330 (F) Topology</td>
<td>MATH 4307 (F,S) Modern Algebra</td>
<td>MATH 4315 (F,S) Analysis II</td>
</tr>
</tbody>
</table>

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