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.

BS – Mathematics
(SC-BS/MATH)
2019 Catalog year: College of Science and Engineering

<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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<tr>
<td>3 hours of natural science (see advisor for options)</td>
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<td>CS 1428 (F,S,Su) Foundations of Computer Science I</td>
<td>MATH 3330 (F,S,Su) Intro to Advanced Math</td>
<td>MATH 3305 (F,S,Su) Analysis I</td>
<td>or MATH 3330</td>
<td>MATH 4307 (F,S) Modern Algebra</td>
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<tr>
<td>MATH 2471 (F,S,Su) Calculus I</td>
<td>MATH 2472 (F,S,Su) Calculus II</td>
<td>MATH 3373 (F,S,Su) Calculus III</td>
<td>MATH 3377 (F,S,Su) Linear Algebra</td>
<td>MATH 3380 (F,S) Analysis I</td>
<td>or MATH 330</td>
<td>MATH 4337B – Research in Discrete Mathematics</td>
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<tr>
<td>ENG 23XX or ENG 3303 (ENG 23XX must be different than literature taken for core)</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 4336 – Studies in Applied Math
- MATH 4337A – Topological Data Analysis
- MATH 4337B – Research in Discrete Mathematics
- MATH 4337C – Numerical Methods for Ordinary Diff Eqns
- MATH 4350 – Combinatorics (S)
- MATH 4382 – Lit. Modern History of Math
- MATH 4383 – Numerical Analysis II
  (check prerequisites)

Core courses must be completed:
- ___ US 1100
- ___ HIST 1310
- ___ ANTH 1312/ECO 2301/2314
- ___ ENG 1310
- ___ HIST 1320
- GEO 1310/PSY 1300/SOCI 1310
- ___ ENG 1320
- ___ PHI 1305 or 1320
- ___ POSI 2310
- ___ COMM 1310
- ___ POSI 2320
- ___ ENG 2310-2360
- ___ ART/DAN/MU/TH 2313

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

Required WI courses: ENG 3303, MATH 4337A, MATH 4370, 4392.