### BS – Mathematics

**SC-BS/MATH**

<table>
<thead>
<tr>
<th>2024 Catalog year: College of Science and Engineering</th>
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<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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<td><strong>3 hours of natural science</strong>&lt;br&gt;(see advisor for options)</td>
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<td><strong>CS 1428</strong>&lt;br&gt;(F,S,Su)&lt;br&gt; Foundations of Computer Science I&lt;br&gt;TCCNS: COCE 1437</td>
<td><strong>MATH 3330</strong>&lt;br&gt;(F,S,Su)&lt;br&gt; Intro to Advanced Math</td>
<td><strong>MATH 3377</strong>&lt;br&gt;(F,S,Su)&lt;br&gt; Linear Algebra</td>
<td><strong>MATH 3380</strong>&lt;br&gt;(F,S)&lt;br&gt; Analysis I</td>
<td><strong>MATH 4315</strong>&lt;br&gt;(F,S)&lt;br&gt; Analysis II</td>
<td><strong>MATH 4330</strong>&lt;br&gt;(F,S)&lt;br&gt; Topology</td>
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<td>MATH 2471&lt;br&gt;(F,S,Su)&lt;br&gt; Calculus I&lt;br&gt;TCCNS: MATH 2413</td>
<td>MATH 2472&lt;br&gt;(F,S,Su)&lt;br&gt; Calculus II&lt;br&gt;TCCNS: MATH 2414</td>
<td>MATH 2393&lt;br&gt;(F,S,Su)&lt;br&gt; Calculus III&lt;br&gt;TCCNS: MATH 2415</td>
<td><strong>MATH 3330</strong>&lt;br&gt;(F,S,Su)&lt;br&gt; Intro to Advanced Math</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 3324 – Applied Multivariate Statistics
- MATH 3325 – Number Systems (S)
- MATH 3348 – Det. Operations Research (F)
- MATH 3383 – Numerical Analysis I (F,S)
- MATH 3398 – Discrete Math II (F,S,Su)
- MATH 4305 – Prob & Stats (F,S)
- MATH 4306 – Fourier Series (S)
- MATH 4327 – Introduction to Complex Analysis & App (F)
- MATH 4336 – Studies in Applied Math
- MATH 4337D – Topics in Topology and Algebra (S)
- MATH 4350 – Combinatorics (S)
- MATH 4383 - Numerical Analysis II (S)
- MATH 4393 – Introduction to Finite Element Methods

### Core courses must be completed:
- **6 credits Core 010**
- **3 credits Core 020**
- **6 credits Core 030**
- **3 credits Core 040**
- **3 credits Core 050**
- **3 credits Core 060**
- **6 credits Core 070**
- **3 credits Core 080**
- **6 credits Core 090**, 091, 092, 093, and 094

**MATH required course: Satisfied in Major MATH**
- MATH 2471 (F,S,Su)
- MATH 4305
- MATH 3330

**Effective 2024–2025 Catalog Year: College of Science and Engineering**

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 – Discuss with advisor to complete WI requirement.
- Core courses must be completed:
  - **6 credits Core 010**
  - **3 credits Core 020**
  - **6 credits Core 030**
  - **3 credits Core 040**
  - **3 credits Core 050**
  - **3 credits Core 060**
  - **6 credits Core 070**
  - **3 credits Core 080**
  - **6 credits Core 090**, 091, 092, 093, and 094

**See catalog for options:**
- http://mycatalog.txstate.edu/undergraduate/general-education-curriculum/
- US 1100 may be required for some students. Consult with an advisor regarding course choices.