<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></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 hours of natural science (see advisor for options)</td>
<td>3 hours of natural science (see advisor for options)</td>
<td></td>
<td>CS 1428 (F,S,Su) Foundations of Computer Science I TCCNS: COSC 1437</td>
<td></td>
<td></td>
<td></td>
<td></td>
</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 3377 (F,S,Su) Linear Algebra</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**BA – Mathematics (SC-BA/MATH)**

**2023 Catalog year: College of Science and Engineering**

- **MATH 3330 (F,S,Su)** Intro to Advanced Math
- **MATH 3380 (F,S)** Analysis I
- **MATH 4330 (F)** Topology
- **MATH 4315 (F,S)** Analysis II
- **MATH 4307 (F)** Modern Algebra

**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,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 (check prerequisites)

**ENG 23XX (F,S,Su)**
- (ENG 23XX must be different than literature taken for core)

**ENG 2310-2360, 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
- 6 credits Core 060
- 6 credits Core 070
- 3 credits Core 080
- 6 credits Core 090, 091, 092, 093, and 094

**TCCNS:**
- MATH 2413
- MATH 2414
- MATH 2415
- MATH 3373
- MATH 3377
- MATH 4327
- MATH 4336
- MATH 4337D
- MATH 4350
- MATH 4383
- MATH 4393

**NOTE:** The Mathematics Department strongly recommends that students successfully complete both MATH 2472 and MATH 3330 prior to enrolling in MATH 3380, MATH 4307, MATH 4330, and MATH 4337D.

**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.

**Requirements for graduation:**
- 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
  - 6 credits Core 060
  - 6 credits Core 070
  - 3 credits Core 080
  - 6 credits Core 090, 091, 092, 093, and 094

**See catalog for options:**
- MATH required course: Satisfied in Major MATH 2471
- Additional WI courses: ENG 2310-2360, Discuss with Advisor to complete WI requirement

**TCCNS:**
- MATH 2413
- MATH 2414
- MATH 2415
- MATH 3373
- MATH 3377
- MATH 4327
- MATH 4336
- MATH 4337D
- MATH 4350
- MATH 4383
- MATH 4393

**US 1100 may be required for some students. Consult with an advisor regarding course choices.**