### BA – Mathematics

#### (SC-BA/MATH)

**2024 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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</thead>
<tbody>
<tr>
<td>MATH 2471 (F,S,Su)</td>
<td>MATH 2472 (F,S,Su)</td>
<td>MATH 2393 (F,S,Su)</td>
<td>CS 1428 (F,S,Su)</td>
<td>MATH 3377 (F,S,Su)</td>
<td>MATH 3380 (F,S,Su)</td>
<td>MATH 4307 (F,S)</td>
<td>MATH 4315 (F,S)</td>
</tr>
<tr>
<td>Calculus I</td>
<td>Calculus II</td>
<td>Calculus III</td>
<td>Foundations of Computer Science I</td>
<td>Linear Algebra</td>
<td>Analysis I</td>
<td>Modern Algebra</td>
<td></td>
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<tr>
<td>TCCNS: MATH 2413</td>
<td>TCCNS: MATH 2414</td>
<td>TCCNS: MATH 2415</td>
<td>(Check Prerequisites)</td>
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#### Minor and/or elective hours

**9 hours MATH advanced electives:**
- MATH 3330 – 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 – Advanced Elective (Check prerequisites)

### 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, 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

### 6 credits Core 090, 091, 092, 093, and 094

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

### MATH 3330 (F,S,Su)
- Intro to Advanced Math

### MATH 3377 (F,S,Su)
- Linear Algebra

### MATH 3380 (F,S,Su)
- Analysis I

### MATH 4307 (F,S)
- Modern Algebra

### MATH 4315 (F,S)
- Analysis II

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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.

TXST options: ANTH 1312, ECO 2301, ECO 2314, GEO 1310, PSY 1300, SOCI 1310, CA 2351, PFW 1301

TXST options: ENG 2310, 2320, 2330, 2340, 2359, 2360, 2371, PHIL 1305, 1320

TXST options: POSI 2310 & POSI 2320

TXST options: ART 2313, DAN 2313, MU 2313, TH 2313

TXST options: HIST 1310/2327/2381 and HIST 1320/2328/2382

See catalog for options: http://mycatalog.txstate.edu/undergraduate/general-education-curriculum/

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