BS – Mathematics
(SC-BS/MATH)

2022 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.

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

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

Minor and/or elective courses (as needed, see advisor)

9 hours MATH advanced electives:
- MATH 3305 – Intro to Prob & Stats (F,S,Su)
- MATH 3325 – Number Systems (S)
- MATH 3346 – 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 4327 – Introduction to Complex Analysis & App
- MATH 4356 – Studies in Applied Math
- MATH 437A – Topological Data Analysis
- MATH 437B – Research in Discrete Mathematics
- MATH 437C – Numerical Methods for Ordinary Diff Eqs
- MATH 437D – Topics in Topology and Algebra
- MATH 4390 – Combinatorics (S)
- MATH 4393 – Numerical Analysis II

ENG 23XX
or
ENG 3303

(ENG 23XX must be different than literature taken for core)

Required WI courses:
- ENG 2310
- ENG 2320

Additional WI courses:
- ENG 2330
- ENG 2340
- ENG 2359
- ENG 2360
- ENG 2371
- PHIL 1305
- PHIL 1320

MATH 2471
(F,S,Su)
Calculus I
TCCNS: MATH 2413

MATH 2472
(F,S,Su)
Calculus II
TCCNS: MATH 2414

MATH 2393
(F,S,Su)
Calculus III
(replaced MATH 3373)
TCCNS: MATH 2415

MATH 3377
(F,S,Su)
Linear Algebra

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

MATH 3380
(F,S)
Analysis I

MATH 4330
(F,S)
Analysis II

MATH 4315
(F,S)
Modern Algebra

MATH 4307
(F, S)

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
  - S-Summer Session I or II
- Required WI courses:
  - ENG 2310-2360, ENG 3303,
  - MATH 4337A, 4337B, 4337C, 4382

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