BS – Mathematics

(Sc-BS/MATH)

2021 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:

- US 1100
- HIST 1310
- ANTH 1312/ECO 2301/2314
- ENG 1310
- HIST 1320
- GEO 1310/PSY 1300/SOCI 1310
- ENG 1320
- POSI 2310
- COMM 1310 or ENG 2310-2360
- PHIL 1305 or 1320
- POSI 2320
- ART/DAN/MU/TH 2313

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

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, MATH 4337A, 4337B, 4337C, 4382

3 hours of natural science (see advisor for options)

CS 1428 (F,S,Su) Foundations of Computer Science I
(TCCNS: COSC 1411/1421)

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

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

MATH 2473 (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 33380 (F,S) Topology

MATH 4315 (F,S) Analysis II

MATH 4307 (F,S) Modern Algebra

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

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 4327 – Introduction to Complex Analysis & App
MATH 4336 – Studies in Applied Math
MATH 4377A – Topological Data Analysis
MATH 4377B – Research in Discrete Mathematics
MATH 4377C – Numerical Methods for Ordinary Diff Eqs
MATH 4350 – Combinatorics (S)
MATH 4383 – Numerical Analysis II
MATH 4393 – Introduction to Finite Element Methods

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