BS – Civil Engineering (SC-Bs/CE)  
2023 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:** CE 4390, CE 4391
**Additional WI courses:** See Advisor for other WI Options

**Core courses must be completed:**
- 6 credits Core 010: TXST options: ENG 1310, ENG 1320, ENG 1321, ENG 3303
- 3 credits Core 020: CE required course: MATH 2471
- 6 credits Core 030: CE required courses: PHYS 1430 + CHEM 1305/1335
- 3 credits Core 040: CE required course: PHIL 1320
- 3 credits Core 050: CE required course: ENGR 3310
- 6 credits Core 060: CE required courses: MATH 2473 + PHYS 2425
- 3 credits Core 070: ENGR 3310
- 3 credits Core 080: CE required courses: ECO 2301
- 6 credits Core 090: CE required courses: MATH 2473 + PHYS 2425

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

### Freshman Fall semester
- CE 1210 (F,S) Intro to Smart Infrastructure
- CS 1342 (F,S) Programming for Scientists & Engineers
- CHEM 1335 (F,S) Engineering Chemistry+Lab TCCNS: CHEM 1309/1310
- ENGR 1304 (F,S,Su) Engineering Design Graphics
- PHYS 1430 (F,S) Mechanics
- MATH 2471 (F,S) Calculus I
- MATH 2473 (F,S) Integral Calculus

### Freshman Spring semester
- ENGR 1301 (F,S,Su) Statics
- CHEM 1335 (F,S) Engineering Chemistry+Lab TCCNS: CHEM 1309/1310
- ENGR 2301 (F,S,Su) Statics
- PHYS 2425 (F,S) Electricity & Magnetism TCCNS: PHYS 2426/CHEM 2126
- MATH 2473 (F,S) Integral Calculus
- MATH 3323 (F,S) Differential Equations TCCNS: MATH 2310

### Sophomore Fall semester
- One from: (BIO 1330+1130), (BIO 1331+1131), or GEOL 1410
- ENGR 3311 (F,S,Su) Mechanics of Materials TCCNS: ENGR 2332
- PHYS 2425 (F,S) Electricity & Magnetism TCCNS: PHYS 2426/CHEM 2126
- MATH 3323 (F,S) Differential Equations
- MATH 3376 (F,S) Applied Linear Algebra

### Sophomore Spring semester
- IE 3320 (F,S) Engineering Statistics
- MATH 3323 (F,S) Differential Equations
- MATH 3376 (F,S) Applied Linear Algebra

### Junior Fall semester
- ENGR 3350 (F,S) Design of RC Infra
- MATH 3376 (F,S) Applied Linear Algebra
- MATH 3323 (F,S) Differential Equations
- MATH 3376 (F,S) Applied Linear Algebra

### Junior Spring semester
- ENGR 4390 (F,S) CE Design I
- ENGR 4391 (F,S) CE Design II

### Senior Fall semester
- ENGR 4370 (F,S) Hydraulics
- ENGR 4391 (F,S) CE Design II

### Senior Spring semester
- Choose three CE Technical Electives:
  - CE 4100
  - CE 4200
  - CE 4300
  - CE 4310
  - CE 4311
  - CE 4320
  - CE 4321
  - CE 4322
  - CE 4350
  - CE 4351
  - CE 4360
  - CE 4362
  - CE 4371
  - CE 4392
  - ENGR 3190
  - ENGR 3290

Choose one CE Infra Design Elective:
- CE 4323 (F)
- CE 4330
- CE 4361 (F,S)
Check prereqs

Choose three CE Technical Electives:
- CE 4100
- CE 4200
- CE 4300
- CE 4310
- CE 4311
- CE 4320
- CE 4321
- CE 4322
- CE 4350
- CE 4351
- CE 4360
- CE 4362
- CE 4371
- CE 4392
- ENGR 3190
- ENGR 3290

Check prereqs