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 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.


#### 2021 Catalog year: College of Science and Engineering

**KEY**
- Arrows indicate prerequisites.
- Arrows with dotted lines indicate co-requisites.
- Arrows with dash lines are recommended prerequisites.
- Courses taught specific semesters are indicated with the following codes:
  - F = Fall
  - Su = Summer Session I or II
  - S = Spring

Required WI courses: EE 3420, 4390, 4391

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

#### Freshman
- **Fall semester**
  - CHEM 1335 (F,S)
    - Engineering Chemistry
  - CHEM 1135 (F,S)
    - Engineering Chemistry lab
    - TCCNS: CHEM 1304

- **Spring semester**
  - PHYS 1430 (F,S)
    - Mechanics
    - TCCNS: PHYS 2425/2325
  - MATH 2471 (F,S,S)
    - Calculus I
    - TCCNS: MATH 2413

#### Sophomore
- **Fall semester**
  - CS 1428 (F,S,S)
    - Foundations of Computer Science I
    - TCCNS: COSC 1420/1320
  - EE 2420 (F,S,S)
    - Digital Logic
  - MATH 2472 (F,S,S)
    - Calculus II
    - TCCNS: MATH 2414
  - PHYS 2425 (F,S)
    - Electricity & Magnetism
    - TCCNS: PHYS 2426/2326

- **Spring semester**
  - MATH 2393 (F,S,S)
    - Calculus III
    - TCCNS: MATH 2315
  - PHYS 2435 (F,S)
    - Waves & Heat
  - MATH 3323 (F,S,S)
    - Differential Equations
    - TCCNS: MATH 2320

#### Junior
- **Fall semester**
  - EE 3420 (F,S,S)
    - Microprocessors
  - ENGR 2301 (F,S,S)
    - Statics
    - (replaced ENGR 3375)
  - EE 2400 (F,S)
    - Circuits I
    - TCCNS: ENGR 2405
  - PHYS 3430 (F,S)
    - Electromagnetics
  - IE 3320 (F,S,S)
    - Engineering Statistics

- **Spring semester**
  - EE 3340 (F,S,S)
    - Communication Systems
  - EE 3355 (F,S,S)
    - Solid State Devices
    - (Also requires PHYS 2425)
  - EE 3370 (F,S,S)
    - Signals & Systems

#### Senior
- **Fall semester**
  - EE 3430 (F,S,S)
    - Electronics II
  - EE 4378 (F,S,S)
    - Communication Networks
    - (EE 3370 coreq.)

- **Spring semester**
  - EE 4350 (F,S)
    - Electrical Engineering Design I
    - (Also requires IE 3320)
  - EE 4372 (F,S)
    - Digital Image Processing (S)
  - EE 4391 (F,S)
    - Electrical Engineering Design II
    - (Also requires EE 3370)

- **Fall semester**
  - EE 3370 (F,S)
    - Communication Systems

- **Spring semester**
  - EE 4390 (F,S)
    - Electrical Engineering Design I
    - (Also requires EE 3320)

11 hours from:
- EE 3323
- EE 4321
- EE 4322
- EE 4350
- EE 4354
- EE 4355
- EE 4356
- EE 4358
- EE 4360
- EE 4374
- EE 4375
- EE 4376
- EE 4378
- ENGR 3190
- ENGR 4395

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

Enforced Corequisite

All prerequisite courses must be completed with C or higher.