BS – Electrical Engineering: Micro & Nano Systems

SC-BSE/EE/3ANO

2022 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
- S - Summer Session I or II
- Su - Summer Session I or II

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.

All prerequisite courses must be completed with C or higher.

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**Freshman Spring semester**

- CHEM 1335 (F,S)
  Engineering Chemistry & Engineering Chemistry lab
  TCCNS: CHEM 1309+1109

**Freshman Fall semester**

- PHYS 1430 (F,S)
  Mechanics
  TCCNS: PHYS 2425/2325+2125

**Sophomore Spring semester**

- CS 1428 (F,S,Su)
  Foundations of Computer Science 1
  TCCNS: COSC 1420/1220

- EE 2420 (F,S,Su)
  Digital Logic

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

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

**Sophomore Fall semester**

- CHEM 1335 (F,S)
  Engineering Chemistry
  TCCNS: CHEM 1309+1109

- PHYS 2425 (F,S)
  Electricity & Magnetism
  TCCNS: PHYS 2426/2326+2126

- PHYS 2425 (F,S)
  Waves & Heat

- MATH 2393 (F,S,Su)
  Calculus III
  TCCNS: MATH 2315

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

**Junior Fall semester**

- EE 4320 (F,S,Su)
  Microprocessors

- EE 4340 (F,S)
  Electromagnetics

- EE 3350 (F,S)
  Electronics I

- MATH 2472 (F,S,Su)
  Calculus II

- MATH 3323 (F,S,Su)
  Differential Equations
  TCCNS: MATH 2320

- MATH 3337 (F,S,Su)
  Engineering Statistics

- MATH 3370 (F,S,Su)
  Signals & Systems

- ENGR 3315 (F,S,Su)
  Engineering Economic Analysis

**Junior Spring semester**

- EE 4390 (F,S)
  Electrical Engineering Design I

- EE 4391 (F,S)
  Electrical Engineering Design II

**Senior Fall semester**

- EE 4350 (F,S)
  Electronics II

**Senior Spring semester**

- EE 4353 or EE 4355 (F)
  EE 4394 (F,S)**

- ENGR 3315 (F,S,Su)
  Engineering Economic Analysis

**Core courses must be completed:**

- 6 credits Core 010
  TXST options: ENG 1310, ENG 1320, ENG 1321, COMM 1310

- 3 credits Core 020
  EE required course: MATH 2471

- 6 credits Core 030
  EE required courses: PHYS 1430 + CHEM 3351/1135

- 3 credits Core 040
  TXST options: PHIL 1305 or 1320

- 3 credits Core 050
  TXST options: ART 2313, DAN 2313, MU 2313, TH 2313

- 6 credits Core 060
  TXST options: [HIST 1310/2327/2381] and [HIST 1320/2328/2382]

- 6 credits Core 070
  TXST options: POJ 2310 & POJ 2320

- 3 credits Core 080
  EE required course: ECO 2301 or 2314

- 6 credits Core 090
  EE required courses: MATH 2472 + PHYS 2425

- 6 credits Core 091, 092, 093, and 094

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

Required WI courses: EE 3420, 4390, 4391

11 hours from:

- EE 3326
- EE 4321
- EE 4323
- EE 4375
- EE 4351
- EE 4377
- EE 4353
- ENGR 3190
- EE 4355
- ENGR 3290
- EE 4356
- ENGR 4395

(check prerequisites)