BS – Electrical Engineering: Micro & Nano Systems  
(SC-BS/EE/NANO) 
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 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.

**Freshman Fall semester**
- CHEM 1335 (F,S,Su) Engineering Chemistry
- CHEM 1135 (F,S) Engineering Chemistry lab (TCCNS: CHEM 1309+1109)
- PHYS 1430 (F,S) Mechanics (TCCNS: PHYS 2425/2325+2125)

**Freshman Spring semester**
- CS 1428 (F,S,Su) Foundations of Computer Science I (TCCNS: COSC 1420/1320)
- MATH 2471 (F,S,Su) Calculus I (TCCNS: MATH 2413)

**Sophomore Fall semester**
- EE 2420 (F,S,Su) Digital Logic (TCCNS: ENGR 2420)
- PHYS 2425 (F,S) Electricity & Magnetism (TCCNS: PHYS 2426/2326+2126)

**Sophomore Spring semester**
- MATH 2393 (F,S,Su) Calculus III (TCCNS: MATH 2315)
- MATH 3377 (F,S,Su) Linear Algebra (TCCNS: MATH 2320)
- PHYS 2425 (F,S) Waves & Heat

**Junior Fall semester**
- EE 4392 (F,S) Microelectronics Manufacturing I
- ENGR 2301 (F,S) Circuits I (TCCNS: ENGR 2405)
- MATH 3323 (F,S) Calculus III (TCCNS: MATH 2320)

**Junior Spring semester**
- EE 4392 (F,S) Microelectronics Manufacturing I
- MATH 2471 (F,S,Su) Calculus I (TCCNS: MATH 2413)
- PHYS 2425 (F,S) Waves & Heat

**Senior Fall semester**
- EE 3400 (F,S,Su) Circuits II (TCCNS: MATH 2320)
- MATH 3377 (F,S,Su) Linear Algebra (TCCNS: MATH 2320)
- EE 3355 (F,S) Solid State Devices

**Senior Spring semester**
- EE 3370 (F,S,Su) Engineering Statistics
- EE 3320 (F,S,Su) Engineering Statistics
- EE 4391 (F,S) Electrical Engineering Design II

**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 030
- 3 credits Core 040
- 6 credits Core 050
- 6 credits Core 060
- 6 credits Core 070
- 3 credits Core 080
- 6 credits Core 090
- 6 credits Core 091, 092, 093, and 094
- US 1100 may be required for some students. Consult with an advisor regarding course choices.

**EE required course:**
- MATH 2471

**EE required courses:**
- MATH 2472 + PHYS 2425

**TXST options:**
- ENGR 3315 (F,S,Su) Engineering Economics
- ENGR 3350 (F,S) Microelectronics Manufacturing II
- ENGR 4352 (F,S) Intro to VLSI Design

**Enforced corequisite:**
- EE 4377

**Also requires CS/EE 2420:**
- EE 4354

**Max of 3 hours from:**
- EE 3326
- EE 4323
- EE 4351
- EE 4353
- EE 4355
- EE 4356
- EE 4357
- EE 4359
- EE 4360
- EE 4375
- EE 4377

**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 030
- 3 credits Core 040
- 6 credits Core 050
- 6 credits Core 060
- 6 credits Core 070
- 3 credits Core 080
- 6 credits Core 090
- 6 credits Core 091, 092, 093, and 094
- US 1100 may be required for some students. Consult with an advisor regarding course choices.

**EE required course:**
- MATH 2471

**EE required courses:**
- MATH 2472 + PHYS 2425