



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

Required WI courses: ME 3361, ME 4390, ME 4391
ME elective WI courses: TECH 4330

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,
- 091, 092, 093, 094, & 095
- TXST options: ENG 1310, ENG 1320, ENG 1321, ENG 3303, or COMM 1310
- ME required course: MATH 2471
- ME required courses: PHYS 2325 & CHEM 1335
- TXST options: PHIL 1305 or 1320
- TXST options: See catalog for options: <http://mycatalog.txstate.edu/undergraduate/general-education-core-curriculum>
- TXST options: [HIST 1310/2327/2381] & [HIST 1320/2328/2382]
- TXST options: POST 2310 & POST 2320
- ME required course: ECO 2301 or ECO 2314
- ME required courses: MATH 2472 & PHYS 2326

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

9 hours of ME Technical Electives from: <i>Prerequisites vary, consult catalog</i>	
EE 4331 - Introduction to Machine Learning for Engineering Applications ENGR 4395 - Independent Studies in Engineering IE 4310 - Statistical Design of Experiments IE 4330 - Reliability Engineering IE 4381 - Introduction to Systems Engineering MATH 4393 - Introduction to Finite Element Methods ME 4311 - Mechanical Vibrations ME 4312 - Mechanics of Composite Materials ME 4321 - Applied Finite Element Analysis ME 4332 - Modern HVAC	ME 4341 - Computational Fluid Dynamics ME 4355 - Autonomous Systems & Robotics MFGE 4318 - Additive Manufacturing MFGE 4367 - Polymer Properties & Processing MFGE 4377 - Introduction to Polymer Nanocomposites MFGE 4378 - Introduction to Industrial Robotics TECH 4330 - Foundry & Heat Treatment Max of 3 hours from: ENGR 3190 - Cooperative Education ENGR 3290 - Advanced Cooperative Education ENGR 4299 - Engineering Undergraduate Research

CHEM 1335

Prerequisite Requirements:

Must complete 1 of the following mathematics prerequisites:

- MATH 1315 or MATH 1317 or MATH 1319 or MATH 1329 or MATH 2321 or MATH 2417 or MATH 2471 - any with a grade of "C" or better
- ACT Mathematics score of 24 or better
- New ACT Mathematics score of 25 or better
- SAT Mathematics score of 550 or better
- Accuplacer College Mathematics score of 86 or better
- Compass College Algebra score of 46 or better
- Next-Generation Advanced Algebra and Functions Test of 263 or better

AND

Must complete 1 of the following to demonstrate Chemistry Readiness:

- Completion of Chemistry Readiness Exam with a score of 80 or better
- CHEM 1320 grade of "C" or better