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

**Core courses must be completed:**
- US 1100
- PHIL 1305 or 1320
- ART/DAN/MU/TH 2313
- ENG 1310
- ENG 1320
- ECO 2301 or ECO 2314
- HIST 1310
- HIST 1320
- POSI 2310
- POSI 2320

US 1100 & ENG 1310 recommended for first semester. HIST 1310/1320 not recommended for first semester.

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**BS – Manufacturing Engineering: Mechanical (SC-BS/MFGE/MSYS)**

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

<table>
<thead>
<tr>
<th>Freshman Fall semester</th>
<th>Freshman Spring semester</th>
<th>Sophomore Fall semester</th>
<th>Sophomore Spring semester</th>
<th>Junior Fall semester</th>
<th>Junior Spring semester</th>
<th>Senior Fall semester</th>
<th>Senior Spring semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2471 (F,S,Su) Calculus I TCCNS: MATH 2413</td>
<td>MATH 2472 (F,S,Su) Calculus II TCCNS: MATH 2414</td>
<td>PHYS 2413 (F,S) Mechanics TCCNS: PHYS 2425/2325/2125</td>
<td>MATH 2413 (F,S) Elementary Differential Equations TCCNS: MATH 2420</td>
<td>ENGR 2300 (F,S,Su) Materials Engineering</td>
<td>MATH 3377 (F,S) Linear Algebra</td>
<td>MFGE 4365 (F,S) Tool Design</td>
<td>MFGE 4390 (F,S) Manufacturing Systems Design</td>
</tr>
<tr>
<td>CHEM 1341+1141 (F,S,Su) General Chemistry I TCCNS: CHEM 1311+1111 or 1141</td>
<td>OR</td>
<td>CHEM 1335+1135 (F,S) Engineering Chemistry TCCNS: CHEM 1309+1109</td>
<td>OR</td>
<td>MATH 3323 (F,S,Su) Linear Algebra</td>
<td>IE 3330 (ES) Quality Engineering</td>
<td>MFGE 4396 (F,S) Manufacturing Systems Design</td>
<td>MFGE 4355 (S) Control Systems &amp; Instrumentation</td>
</tr>
<tr>
<td>ENGR 1304 (F,S,Su) Engineering Design Graphics (replaced ENGR 1313)</td>
<td>MFGE 2332 (F,S,Su) Materials Selection</td>
<td>MFGE 2132 Manufacturing Lab I</td>
<td>IE 3320 (F,S,Su) Engineering Statistics</td>
<td>MFGE 3316 (F,S) Computer Aided Design &amp; Mfg</td>
<td>MFGE 3316 Manufacturing Lab II</td>
<td>MFGE 4395 (S) Dynamics of Machinery</td>
<td>MFGE 4176 Manufacturing Lab III</td>
</tr>
</tbody>
</table>

**Check prerequisites**

Choose 6 hours of mechanical systems electives:

- ENGR 3170
- MFGE 4376
- MFGE 4378
- IE 4310
- IE 4312
- MFGE 4395

Required WI courses: MFGE 4395, 4396, 4390, 4391