## Mechanical Engineering Technology, B.S., Mechanical Concentration

**General Studies**
- 42 min.

**Major courses**
- 51

**Additional Requirements**
- Concentration 24

**Total to graduate (min. 40 hrs upper division)** 128 min

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**Written Communication**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit Hours</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 1010</td>
<td>3</td>
<td>Freshman Comp: the Essay*</td>
</tr>
<tr>
<td>OR ENG 1008/1009</td>
<td>6 hrs.</td>
<td>Freshman Comp: The Essay Part I &amp; II*</td>
</tr>
<tr>
<td>OR ENG 1020</td>
<td>3</td>
<td>Freshman Comp: Anal., Rsrch &amp; Docum. (must be completed within 45-credit hours)</td>
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</tbody>
</table>

**Quantitative Literacy:** students must earn a grade of “C” or higher

- MTH 1410 (4 hrs) Calculus I
- or MTH 1400 (4 hrs) Pre-Calculus & MTH 1410 (4 hrs) Calculus I

*Note:* MTH 1110-4 College Algebra & MTH 1120-3 Trigonometry may substitute for MTH 1400.

**Oral Communication**
- SPE 1010 (3 hrs) Public Speaking

**Arts & Humanities**
- PHI 1030 (3 hrs) Introduction to Ethics
- or (3 hrs)

**Historical**
- (3 hrs)

**Social & Behavioral Sciences I**
- ECO 2010 (3 hrs) Principles of Economics: Macro

**Social & Behavioral Sciences II**
- (3 hrs)

**Natural & Physical Sciences**
- CHE 1800 (4 hrs) General Chemistry I
- PHY 2311 (4 hrs) General Physics I
- PHY 2321 (1 hr) General Physics I Lab
- PHY 2331 (4 hrs) General Physics II
- PHY 2341 (1 hr) General Physics II Lab

**Global Diversity** May be satisfied within general studies
- (3 hrs)

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**Major Courses:** For every MET course, a minimum grade of “C” is required for all prerequisites before a student can progress.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit Hours</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>MET 1000</td>
<td>3</td>
<td>Introduction to Mechanical Engineering Technology</td>
</tr>
<tr>
<td>MET 1010</td>
<td>3</td>
<td>Manufacturing Processes</td>
</tr>
<tr>
<td>MET 1200</td>
<td>3</td>
<td>Technical Drawing I</td>
</tr>
<tr>
<td>MET 1210</td>
<td>3</td>
<td>3D Modeling</td>
</tr>
<tr>
<td>MET 1310</td>
<td>3</td>
<td>Principles of Quality Assurance</td>
</tr>
<tr>
<td>MET 2200</td>
<td>3</td>
<td>Materials of Engineering</td>
</tr>
<tr>
<td>MET 3110</td>
<td>3</td>
<td>Thermodynamics</td>
</tr>
<tr>
<td>MET 3160</td>
<td>3</td>
<td>Mechanics II-Dynamics</td>
</tr>
<tr>
<td>MET 3180</td>
<td>3</td>
<td>Fluid Mechanics I</td>
</tr>
<tr>
<td>MET 3210</td>
<td>4</td>
<td>Introduction to Computer Aided Engineering</td>
</tr>
<tr>
<td>MET 3410</td>
<td>3</td>
<td>Geometric Dimensioning and Tolerancing</td>
</tr>
<tr>
<td>MET 4000</td>
<td>3</td>
<td>Project Engineering</td>
</tr>
<tr>
<td>CET 2150</td>
<td>3</td>
<td>Mechanics I-Statics</td>
</tr>
<tr>
<td>CET 3135</td>
<td>4</td>
<td>Mechanics of Materials with Laboratory</td>
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</table>

**Additional Technical Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit Hours</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>EET 2000</td>
<td>3</td>
<td>Electric Circuits &amp; Machines</td>
</tr>
<tr>
<td>EET 3010</td>
<td>4</td>
<td>Industrial Electronics</td>
</tr>
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</table>

**Additional Requirements**

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<tr>
<th>Course Code</th>
<th>Credit Hours</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>COM 2610</td>
<td>3</td>
<td>Introduction to Technical Writing</td>
</tr>
<tr>
<td>MTH 1410</td>
<td>4</td>
<td>Calculus I</td>
</tr>
<tr>
<td>MTH 2410</td>
<td>4</td>
<td>Calculus II</td>
</tr>
</tbody>
</table>

**Mechanical Concentration**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit Hours</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MET 3070</td>
<td>3</td>
<td>Machine Design</td>
</tr>
<tr>
<td>MET 3125</td>
<td>3</td>
<td>Heat Transfer with Laboratory</td>
</tr>
<tr>
<td>MET 3190</td>
<td>3</td>
<td>Fluid Mechanics II</td>
</tr>
<tr>
<td>MET 3320</td>
<td>3</td>
<td>Instrumentation Laboratory</td>
</tr>
<tr>
<td>MET 3xxx</td>
<td>3</td>
<td>Upper-division MET elective</td>
</tr>
<tr>
<td>MET 3xxx</td>
<td>3</td>
<td>Upper-division MET elective</td>
</tr>
<tr>
<td>MET 4070</td>
<td>3</td>
<td>Computer Aided Design (Senior Experience)</td>
</tr>
<tr>
<td>MET 4280</td>
<td>3</td>
<td>Advanced Energy Technology</td>
</tr>
<tr>
<td>MET 4280-3</td>
<td>Advanced Energy Technology</td>
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</tr>
</tbody>
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**Multicultural Requirement**

(May be satisfied within General Studies)