# Manufacturing Engineering Technology, B.S.

## Major in Manufacturing Engineering Technology

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CORE REQUIREMENTS</strong></td>
<td>54</td>
<td></td>
</tr>
<tr>
<td>AENG 130</td>
<td>Production Materials &amp; Processes</td>
<td></td>
</tr>
<tr>
<td>AENG 241</td>
<td>Drafting Communications</td>
<td></td>
</tr>
<tr>
<td>AENG 261</td>
<td>Electronic Systems</td>
<td></td>
</tr>
<tr>
<td>AENG 262</td>
<td>Semiconductor Electronics</td>
<td></td>
</tr>
<tr>
<td>AENG 271</td>
<td>Processing Nonmetallic Materials</td>
<td></td>
</tr>
<tr>
<td>AENG 281</td>
<td>Processing Metallic Materials</td>
<td></td>
</tr>
<tr>
<td>AENG 325</td>
<td>Power Conversion and Control</td>
<td></td>
</tr>
<tr>
<td>AENG 326</td>
<td>Fluid Power</td>
<td></td>
</tr>
<tr>
<td>AENG 342</td>
<td>Computer-Aided Engineering Drawing</td>
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</tr>
<tr>
<td>AENG 344</td>
<td>Product Design</td>
<td></td>
</tr>
<tr>
<td>AENG 345</td>
<td>Statics/Strength of Materials</td>
<td></td>
</tr>
<tr>
<td>AENG 375</td>
<td>Polymer and Ceramic Technology</td>
<td></td>
</tr>
<tr>
<td>AENG 382</td>
<td>Automated Manufacturing</td>
<td></td>
</tr>
<tr>
<td>AENG 425</td>
<td>Industrial Robotic Systems</td>
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<tr>
<td>AENG 427</td>
<td>Programmable Logic Controllers</td>
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</tr>
<tr>
<td>AENG 448</td>
<td>Machine Tool Design</td>
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<tr>
<td>AENG 492</td>
<td>Technical Entrepreneurship</td>
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</tr>
<tr>
<td>AENG 494</td>
<td>Total Quality Management</td>
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</tr>
<tr>
<td><strong>DIRECTED ELECTIVES - Choose 1 class for at least 3 hours from:</strong></td>
<td>3</td>
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<tr>
<td>AENG 300</td>
<td>Co-Op Ed Experience in AENG</td>
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<tr>
<td>AENG 376</td>
<td>Woodworking Technology</td>
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<tr>
<td>AENG 392</td>
<td>Intro to Industrial Training</td>
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<tr>
<td>AENG 400</td>
<td>Co-Op Ed Experience in AENG</td>
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<tr>
<td>AENG 446</td>
<td>Advanced Applications in Drafting and Design</td>
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<tr>
<td>AENG 467</td>
<td>Mobile Robotics</td>
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<tr>
<td><strong>Total Hours</strong></td>
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## Req Related for Manufacturing Engineering Tech

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>MATH 161</td>
<td>Calculus 1</td>
<td>4</td>
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<tr>
<td>Survey of Statistics</td>
<td>3</td>
<td></td>
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<tr>
<td>MATH 130</td>
<td>Elements of Statistics 1</td>
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<tr>
<td><strong>Physics I with Algebra - Choose 1 of the following:</strong></td>
<td>4-5</td>
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<tr>
<td>PHYS 131</td>
<td>Physics 1 with Algebra</td>
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<tr>
<td>PHYS 231</td>
<td>Physics 1 with Calculus</td>
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<tr>
<td><strong>Physics II with Algebra - Choose 1 of the following:</strong></td>
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<tr>
<td>PHYS 132</td>
<td>Physics 2 with Algebra</td>
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<tr>
<td>PHYS 232</td>
<td>Physics 2 with Calculus</td>
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<tr>
<td>CHEM 111</td>
<td>Introductory Chemistry 1</td>
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<tr>
<td><strong>Total Hours</strong></td>
<td>19-21</td>
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