APPLIED ENGINEERING & TECHNOLOGY MANAGEMENT, B.S. - ADVANCED MANUFACTURING TECHNOLOGY CONCENTRATION

The Advanced Manufacturing concentration at Millersville University prepares students for an ever-changing workplace that is increasingly driven by advanced technology. Manufacturing is a matter of fundamental importance to the economic strength and national security of the United States. The new era of manufacturing is cleaner, more precise and more effective than ever before; and it requires highly skilled workers.

Major in Appl Engineering & Tech Mgt

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>AENG 120</td>
<td>Energy Systems</td>
<td>3</td>
</tr>
<tr>
<td>AENG 130</td>
<td>Production Materials &amp; Processes</td>
<td>3</td>
</tr>
<tr>
<td>AENG 241</td>
<td>Drafting Communications</td>
<td>3</td>
</tr>
<tr>
<td>AENG 271</td>
<td>Processing Nonmetallic Materials</td>
<td>3</td>
</tr>
<tr>
<td>AENG 281</td>
<td>Processing Metallic Materials</td>
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<tr>
<td>AENG 325</td>
<td>Power Conversion and Control</td>
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<tr>
<td>AENG 342</td>
<td>Computer-Aided Engineering Drawing</td>
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<tr>
<td>AENG 375</td>
<td>Polymer and Ceramic Technology</td>
<td>3</td>
</tr>
<tr>
<td>AENG 376</td>
<td>Woodworking Technology</td>
<td>3</td>
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<tr>
<td>AENG 382</td>
<td>Automated Manufacturing</td>
<td>3</td>
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<tr>
<td>AENG 425</td>
<td>Industrial Robotic Systems</td>
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<td>AENG 448</td>
<td>Machine Tool Design</td>
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TECHNOLOGY MANAGEMENT CORE

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>BUAD 251</td>
<td>Principles of Management (C- minimum pre-req for MGMT 452)</td>
<td>3</td>
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<tr>
<td>MGMT 452</td>
<td>Operations and Supply Chain Management</td>
<td>3</td>
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<tr>
<td>AENG 492</td>
<td>Technical Entrepreneurship</td>
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<td>AENG 494</td>
<td>Total Quality Management</td>
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<tr>
<td>OSEH 120</td>
<td>Fundamentals of Safety, Health, Environmental Issues</td>
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ELECTIVE COURSES IN TECHNOLOGY MANAGEMENT

A maximum of 6 internship credits (ITEC 300, 400) may be counted for this degree.

Technology Management Electives - Choose 3 of the following: 9-27

<table>
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<tr>
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<tbody>
<tr>
<td>BUAD 161</td>
<td>Intro to Financial Accounting</td>
</tr>
<tr>
<td>BUAD 352</td>
<td>Human Resource Management</td>
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<tr>
<td>MGMT 357</td>
<td>International Management</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 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>OSEH 221</td>
<td>Industrial Fire Prevention, Protection and Control</td>
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<tr>
<td>OSEH 320</td>
<td>Safety Engineering Principles</td>
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Req Related for Applied Engineering, Tech/Mgt

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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>ECON 101</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 102</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 130</td>
<td>Elements of Statistics 1</td>
<td>3</td>
</tr>
<tr>
<td>Calculus - Choose 1 of the following:</td>
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</tr>
<tr>
<td>MATH 151</td>
<td>Calculus for Management</td>
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</tr>
<tr>
<td>MATH 160</td>
<td>Precalculus</td>
<td></td>
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<tr>
<td>MATH 161</td>
<td>Calculus 1</td>
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<tr>
<td>Directed Science - Choose 2 of the following:</td>
<td>6-8</td>
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<tr>
<td>CHEM 101</td>
<td>Chem!Better Things/Better Living</td>
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<tr>
<td>CHEM 103</td>
<td>Gen Organic and Biochemistry 1</td>
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</tr>
<tr>
<td>CHEM 104</td>
<td>Gen Organic and Biochemistry 2</td>
<td></td>
</tr>
<tr>
<td>PHYS 103</td>
<td>Elements of Physics</td>
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<tr>
<td>PHYS 104</td>
<td>Applied Physics</td>
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</tr>
<tr>
<td>PHYS 131</td>
<td>Physics 1 with Algebra</td>
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</tr>
<tr>
<td>PHYS 132</td>
<td>Physics 2 with Algebra</td>
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</tr>
<tr>
<td>Can receive credit for either PHYS 103 or 104, but not both</td>
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Total Hours 60-78

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Total Hours 19-21