MAJOR REQUIREMENTS FOR A BS DEGREE IN APPLIED ENGINEERING & TECHNOLOGY MANAGEMENT

Total credit hours required: 120.0 minimum

A. Policies for Admission to the Major
   1. New students (freshmen and transfers) must be admitted to the Applied Engineering & Technology Management major by the Office of Admissions upon admission to the University.
   2. Admission into the Applied Engineering & Technology Management major from other departments is upon approval of the chairperson of the Applied Engineering, Safety & Technology Department.
   3. Non-degree and continuing education students must be admitted to the Applied Engineering & Technology Management major by the Office of Admissions.

B. Policies for Retention in the Major
   1. University requirements for retention.

C. Policies for Completion of the Major
   1. Completion of all University curricular requirements.
   2. Either English 312 or 316 satisfies the upper-level writing course requirement under the General Education Curriculum.

Note to the student: This form is provided as a guide. It is your responsibility to consult regularly with your advisor to be aware of changes and curriculum details which are not incorporated on this form.
**MAJOR SEQUENCE AND DEGREE REQUIREMENTS**

**Major:** BS APPLIED ENGINEERING & TECH MGMT  
**Option:** Advanced Manufacturing Tech  
**Major Field Requirements:** 60.0 credits  
**Other Requirements:** 22.0 - 24.0 credits

When applicable, up to six of the REQUIRED RELATED courses may be credited toward the Liberal Arts Core subject to normal distribution rules.

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Short Title</th>
<th>C.H.</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 101</td>
<td>Chemistry 1</td>
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<tr>
<td>CHEM 103</td>
<td>Chemistry 2</td>
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<td>CHEM 104</td>
<td>Chemistry 3</td>
<td>3.0</td>
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<td>CHEM 205</td>
<td>Chemistry 4</td>
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<tr>
<td>PHYS 103</td>
<td>Physics 1</td>
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<td>PHYS 104</td>
<td>Physics 2</td>
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<td>PHYS 131</td>
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<tr>
<td>PHYS 132</td>
<td>Physics 4</td>
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NOTE: *Can receive credit for either PHYS 103 or 104, but not both.

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<thead>
<tr>
<th>Course No.</th>
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<tbody>
<tr>
<td>ECON 101</td>
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<td>ECON 102</td>
<td>Economics 2</td>
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<th>Course No.</th>
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<th>Grade</th>
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<tbody>
<tr>
<td>MATH 130</td>
<td>Calculus 1</td>
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<tr>
<td>MATH 151</td>
<td>Calculus 2</td>
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<td>MATH 160</td>
<td>Calculus 3</td>
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<tr>
<td>MATH 161</td>
<td>Calculus 4</td>
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<tr>
<th>Course No.</th>
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<th>C.H.</th>
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<tbody>
<tr>
<td>ENGL 312</td>
<td>Technical Writing</td>
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<tr>
<td>ENGL 316</td>
<td>Business Writing</td>
<td>3.0</td>
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**DEPARTMENTAL REQUIREMENTS (60.0 credits)**

**Technical Option (36.0 credits)**

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Short Title</th>
<th>C.H.</th>
<th>Grade</th>
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<tbody>
<tr>
<td>ITEC 120</td>
<td>Energy &amp; Power Systems</td>
<td>3.0</td>
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<tr>
<td>ITEC 130</td>
<td>Production Materials &amp; Processes</td>
<td>3.0</td>
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<tr>
<td>ITEC 241</td>
<td>Drafting Communications</td>
<td>3.0</td>
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<tr>
<td>ITEC 271</td>
<td>Processing Nonmetallic Materials</td>
<td>3.0</td>
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<tr>
<td>ITEC 281</td>
<td>Processing Metallic Materials</td>
<td>3.0</td>
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<tr>
<td>ITEC 325</td>
<td>Power Conversion &amp; Control</td>
<td>3.0</td>
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<tr>
<td>ITEC 342</td>
<td>Computer-Aided Engineering Drawing</td>
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<tr>
<td>ITEC 375</td>
<td>Polymer &amp; Ceramic Technology</td>
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<td>ITEC 376</td>
<td>Wood Technology</td>
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<td>ITEC 382</td>
<td>CNC Machining</td>
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<td>ITEC 425</td>
<td>Industrial Robotic Systems</td>
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<tr>
<td>ITEC 448</td>
<td>Machine Tool Design</td>
<td>3.0</td>
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**Technology Management Core (15.0 credits)**

<table>
<thead>
<tr>
<th>Course No.</th>
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<th>C.H.</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSEH 120</td>
<td>Safety, Health &amp; Environ. Issues</td>
<td>3.0</td>
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<tr>
<td>ITEC 492</td>
<td>Technical Entrepreneurship</td>
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<td>ITEC 494</td>
<td>Total Quality Management</td>
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<tr>
<td>BUAD 251</td>
<td>Principles of Management</td>
<td>3.0</td>
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<tr>
<td>BUAD 452</td>
<td>Operations &amp; Supply Chain Mgmt</td>
<td>3.0</td>
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</table>

**Elective Courses in Technology Management (9.0 credits)** Select three courses from the following:

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Short Title</th>
<th>C.H.</th>
<th>Grade</th>
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<tbody>
<tr>
<td>ITEC 300</td>
<td>Internship*</td>
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<tr>
<td>ITEC 400</td>
<td>Internship*</td>
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<tr>
<td>ITEC 392</td>
<td>Industrial Training</td>
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<tr>
<td>OSEH 221</td>
<td>Industrial Fire Prevention</td>
<td>3.0</td>
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<tr>
<td>OSEH 320</td>
<td>Safety Engineering Principles</td>
<td>3.0</td>
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<tr>
<td>OSEH 323</td>
<td>Human Factors</td>
<td>3.0</td>
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</tr>
<tr>
<td>OSEH 333</td>
<td>Intro to System Safety</td>
<td>3.0</td>
<td></td>
</tr>
<tr>
<td>BUAD 161</td>
<td>Intro to Financial Accounting</td>
<td>3.0</td>
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<tr>
<td>BUAD 352</td>
<td>Human Resource Management</td>
<td>3.0</td>
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<tr>
<td>BUAD 353</td>
<td>Labor-Management Relations</td>
<td>3.0</td>
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<tr>
<td>BUAD 357</td>
<td>International Management</td>
<td>3.0</td>
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<tr>
<td>PSYC 329</td>
<td>Industrial/Organization Psychology</td>
<td>3.0</td>
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<tr>
<td>SOCY 318</td>
<td>Sociology Complex Organizations</td>
<td>3.0</td>
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</table>

NOTE: *Maximum of 6 credits internship may be counted toward degree

**REQUIRED RELATED (22.0 - 24.0 credits)**

**Science (6.0 - 8.0 credits)**

Select two science courses from the following list:

<table>
<thead>
<tr>
<th>Course No.</th>
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<th>C.H.</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 101</td>
<td>Chem! Better Things/Better Living</td>
<td>3.0</td>
<td></td>
</tr>
<tr>
<td>CHEM 103</td>
<td>General, Organic &amp; Biochem I</td>
<td>3.0</td>
<td></td>
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<tr>
<td>CHEM 104</td>
<td>General, Organic &amp; Biochem II</td>
<td>3.0</td>
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<tr>
<td>PHYS 205</td>
<td>Molecular Basis of Color &amp; Form</td>
<td>4.0</td>
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**Economics (6.0 credits)**

<table>
<thead>
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<tbody>
<tr>
<td>ECON 101</td>
<td>Principles of Macroeconomics</td>
<td>3.0</td>
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<tr>
<td>ECON 102</td>
<td>Principles of Microeconomics</td>
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**Mathematics (7.0 credits)**

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<tbody>
<tr>
<td>MATH 130</td>
<td>Elements of Statistics</td>
<td>3.0</td>
<td></td>
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<tr>
<td>MATH 151</td>
<td>Calculus for Mgmt, Life and SS</td>
<td>4.0</td>
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<tr>
<td>MATH 160</td>
<td>Precalculus</td>
<td>4.0</td>
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<tr>
<td>MATH 161</td>
<td>Calculus I</td>
<td>4.0</td>
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</table>

**English - Advanced Writing (3.0 credits)**

Choose one of the following:

<table>
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<tr>
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<tbody>
<tr>
<td>ENGL 312</td>
<td>Technical Writing</td>
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<tr>
<td>ENGL 316</td>
<td>Business Writing</td>
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**General Electives (as necessary)**

<table>
<thead>
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