## APPLIED ENGINEERING & TECHNOLOGY MANAGEMENT, B.S. - GENERAL TECHNOLOGY

**Major in Appl Engineering & Tech Mgt**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AENG 110</td>
<td>Communication and Information Systems</td>
<td>3</td>
</tr>
<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>
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Print Media Systems or Web Publishing Systems - Choose 1 of the following:

- AENG 251: Print Media Systems
- AENG 252: Web Publishing Systems
- AENG 261: Electronic Systems
- AENG 271: Processing Nonmetallic Materials
- AENG 281: Processing Metallic Materials

Power Conversion Control or Fluid Power - Choose 1 of the following:

- AENG 325: Power Conversion and Control
- AENG 326: Fluid Power

Directed Electives - Choose 3 of the following: 9-10

- AENG 325: Power Conversion and Control
- AENG 326: Fluid Power
- AENG 331: Construction Technology 1
- AENG 332: Construction Technology 2
- AENG 342: Computer-Aided Engineering Drawing
- AENG 344: Product Design
- AENG 345: Statics/Strength of Materials
- AENG 346: Architectural Drawing
- AENG 348: Green Building and Sustainable Systems
- AENG 351: Digital Imaging
- AENG 355: Contemporary Printing
- AENG 356: Desktop Publishing
- AENG 357: Packaging Specialty Printing
- AENG 364: Digital Electronics
- AENG 375: Polymer and Ceramic Technology
- AENG 376: Woodworking Technology
- AENG 382: Automated Manufacturing
- AENG 427: Programmable Logic Controllers
- AENG 435: Manufacturing Enterprise
- AENG 446: Advanced Applications in Drafting and Design
- AENG 448: Machine Tool Design
- AENG 455: R&D in Graphic Communications and Packaging
- AENG 466: Mobile Robotics
- AENG 498: Independent Study
- AENG 515: Adv Prob:
- AENG 525: Adv Prob:

**R D REQUIREMENT**

undefined - Choose 1 of the following:

- AENG 326: Fluid Power
- AENG 344: Product Design
- AENG 356: Desktop Publishing
- AENG 425: Industrial Robotic Systems
- AENG 427: Programmable Logic Controllers
- AENG 445:
- AENG 455: R&D in Graphic Communications and Packaging
- AENG 466:
- AENG 467: Mobile Robotics
- AENG 498: Independent Study

This course may be used to fulfill another requirement in the major as applicable.

**TECHNOLOGY MANAGEMENT CORE**

- BUAD 251: Principles of Management (C- minimum pre-req for MGMT 452) 3
- MGMT 452: Operations and Supply Chain Management 3
- AENG 492: Technical Entrepreneurship 3
- AENG 494: Total Quality Management 3
- OSEP 120: Fundamentals of Safety, Health, Environmental Issues 3

**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

- BUAD 161: Intro to Financial Accounting
- BUAD 352: Human Resource Management
- BUAD 353:
- MGMT 357: International Management
- AENG 300: Co-Op Ed Experience in AENG
- AENG 392: Intro to Industrial Training
- AENG 400: Co-Op Ed Experience in AENG
- OSEP 211: Industrial Fire Prevention, Protection and Control
- OSEP 320: Safety Engineering Principles
- OSEP 323: Human Factors in OSEP
- OSEP 333: Introduction to System Safety
- PSYC 329: Industrial Psychology
- SOCY 318: Soc Of Complex Organizations

**Total Hours** 60-79

**Req Related for Applied Engineering, Tech/Mgt**

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<thead>
<tr>
<th>Code</th>
<th>Title</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>
</tbody>
</table>

Calculus - Choose 1 of the following: 4

- MATH 151: Calculus for Management
- MATH 160: Precalculus
- MATH 161: Calculus 1

Directed Science - Choose 2 of the following: 6-8

- CHEM 101: Chem!Better Things/Better Lving
<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>CHEM 103</td>
<td>Gen Organic and Biochemistry 1</td>
</tr>
<tr>
<td>CHEM 104</td>
<td>Gen Organic and Biochemistry 2</td>
</tr>
<tr>
<td>CHEM 205</td>
<td></td>
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<tr>
<td>PHYS 103</td>
<td>Elements of Physics</td>
</tr>
<tr>
<td>PHYS 104</td>
<td>Applied Physics</td>
</tr>
<tr>
<td>PHYS 131</td>
<td>Physics 1 with Algebra</td>
</tr>
<tr>
<td>PHYS 132</td>
<td>Physics 2 with Algebra</td>
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Can receive credit for either PHYS 103 or 104, but not both.

Total Hours 19-21