MECHANICAL ENGINEERING TECHNOLOGY, A.ENGT. (ENGINEERING)

Begin Campus: DuBois, York
End Campus: DuBois, York

Degree Requirements

For the Associate in Engineering Technology degree in Mechanical Engineering Technology, a minimum of 65 credits is required:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education</td>
<td>21</td>
</tr>
<tr>
<td>Requirements for the Major</td>
<td>54-64</td>
</tr>
</tbody>
</table>

12-15 of the 21 credits for General Education are included in the Requirements for the Major. This includes: 3 credits of GN courses; 3 credits of GQ courses; 6 credits of GWS courses; 0-3 credits of GH or GS.

Requirements for the Major

A First-Year Seminar is required for students at Penn State Erie, The Behrend College.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS 100</td>
<td>Effective Speech</td>
<td>3</td>
</tr>
<tr>
<td>IET 215</td>
<td>Production Design</td>
<td>2</td>
</tr>
<tr>
<td>IET 216</td>
<td>Production Design Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>MET 213</td>
<td>Strength and Properties of Materials</td>
<td>3</td>
</tr>
<tr>
<td>MET 214</td>
<td>Strength and Properties of Materials Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>MET 210W</td>
<td>Machine Design</td>
<td>3</td>
</tr>
</tbody>
</table>

Prescribed Courses: Require a grade of C or better

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IET 101</td>
<td>Manufacturing Materials, Processes, and Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>MET 111</td>
<td>Mechanics for Technology: Statics</td>
<td>3</td>
</tr>
<tr>
<td>MET 206</td>
<td>Dynamics</td>
<td>3</td>
</tr>
</tbody>
</table>

Additional Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 15</td>
<td>Rhetoric and Composition</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 30H</td>
<td>Honors Rhetoric and Composition</td>
<td></td>
</tr>
</tbody>
</table>

Select 5-6 credits of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 22</td>
<td>College Algebra II and Analytic Geometry and Plane Trigonometry</td>
<td>5-6</td>
</tr>
<tr>
<td>MATH 40</td>
<td>Algebra, Trigonometry, and Analytic Geometry</td>
<td>1,2</td>
</tr>
<tr>
<td>MATH 81</td>
<td>Technical Mathematics I and Technical Mathematics II</td>
<td>1,2</td>
</tr>
<tr>
<td>MATH 82</td>
<td>Technical Mathematics II</td>
<td>1,2</td>
</tr>
</tbody>
</table>

Select 3-4 credits of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 150</td>
<td>Technical Physics I</td>
<td></td>
</tr>
<tr>
<td>PHYS 211</td>
<td>General Physics: Mechanics</td>
<td></td>
</tr>
<tr>
<td>PHYS 250</td>
<td>Introductory Physics I</td>
<td></td>
</tr>
</tbody>
</table>

Select 3-4 credits of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 151</td>
<td>Technical Physics II</td>
<td></td>
</tr>
<tr>
<td>PHYS 212</td>
<td>General Physics: Electricity and Magnetism</td>
<td></td>
</tr>
</tbody>
</table>

PHYS 251 Introductory Physics II
Select at least 19-24 credits from one of the following three tracks: 19-24

General Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDSGN 100</td>
<td>Cornerstone Engineering Design</td>
</tr>
<tr>
<td>EDSGN 110</td>
<td>Spatial Analysis in Engineering Design</td>
</tr>
<tr>
<td>or EGT 114</td>
<td>Spatial Analysis and Computer-Aided Drafting</td>
</tr>
<tr>
<td>EET 105</td>
<td>Electrical Systems</td>
</tr>
<tr>
<td>MET 107</td>
<td>Computer Applications for Technologists</td>
</tr>
<tr>
<td>STS 200</td>
<td>Critical Issues in Science, Technology, and Society</td>
</tr>
<tr>
<td>or STS 233</td>
<td></td>
</tr>
<tr>
<td>or STS 245</td>
<td></td>
</tr>
</tbody>
</table>

Select at least 6 credits from the approved supporting course list for this track

Baccalaureate Electro-Mechanical Engineering Technology (EMET) Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMPET 117</td>
<td>Digital Electronics</td>
</tr>
<tr>
<td>CMPET 120</td>
<td>Digital Electronics Laboratory</td>
</tr>
<tr>
<td>EDSGN 100</td>
<td>Cornerstone Engineering Design</td>
</tr>
<tr>
<td>EDSGN 110</td>
<td>Spatial Analysis in Engineering Design</td>
</tr>
<tr>
<td>or EGT 114</td>
<td>Spatial Analysis and Computer-Aided Drafting</td>
</tr>
<tr>
<td>EET 105</td>
<td>Electrical Systems</td>
</tr>
<tr>
<td>EET 114</td>
<td>Electrical Circuits II</td>
</tr>
<tr>
<td>EET 118</td>
<td>Electrical Circuits Laboratory</td>
</tr>
<tr>
<td>MATH 83</td>
<td>Technical Calculus</td>
</tr>
<tr>
<td>or MATH 140</td>
<td>Calculus With Analytic Geometry</td>
</tr>
</tbody>
</table>

Baccalaureate Mechanical Engineering Technology (METBC or MET) Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EET 100</td>
<td>Electric Circuits, Power, and Electronics</td>
</tr>
<tr>
<td>EGT 120</td>
<td>Introduction to Graphics and Solid Modeling</td>
</tr>
<tr>
<td>EGT 121</td>
<td>Applied Solid Modeling</td>
</tr>
<tr>
<td>MET 107</td>
<td>Computer Applications for Technologists</td>
</tr>
</tbody>
</table>

Select 1 credit of First-Year Seminar

Select 6 credits from the approved supporting course list for this track

1 Students pursuing the baccalaureate track must take MATH 22 and MATH 26.
2 Students who choose to take MATH 81 and MATH 82 must select MATH 83. Students who choose to take MATH 22 and MATH 26 must select MATH 140.

General Education

Connecting career and curiosity, the General Education curriculum provides the opportunity for students to acquire transferable skills necessary to be successful in the future and to thrive while living in interconnected contexts. General Education aids students in developing intellectual curiosity, a strengthened ability to think, and a deeper sense of aesthetic appreciation. These are requirements for all associate degree students and are often partially incorporated into the requirements of a program. For additional information, see the General Education Requirements (https://bulletins.psu.edu/undergraduate/general-
education/associate-degree-general-education-program/) section of the Bulletin and consult your academic adviser.

The keystone symbol appears next to the title of any course that is designated as a General Education course. Program requirements may also satisfy General Education requirements and vary for each program.

**Foundations (grade of C or better is required.)**

- **Quantification (GQ):** 3 credits
- **Writing and Speaking (GWS):** 3 credits

**Knowledge Domains**

- **Arts (GA):** 3 credits
- **Humanities (GH):** 3 credits
- **Social and Behavioral Sciences (GS):** 3 credits
- **Natural Sciences (GN):** 3 credits

**Note:** Up to six credits of Inter-domain courses may be used for any Knowledge Domain requirement, but when a course is used to satisfy more than one requirement, the credits from the course can be counted only once.

**Foundations or Knowledge Domains**

- **Any General Education course:** 3 credits

**University Degree Requirements**

**Cultures Requirement**

3 credits of United States (US) or International (IL) cultures coursework are required and may satisfy other requirements.

**Writing Across the Curriculum**

3 credits required from the college of graduation and likely prescribed as part of major requirements.

**Total Minimum Credits**

A minimum of 60 degree credits must be earned for a associates degree. The requirements for some programs may exceed 60 credits. Students should consult with their college or department adviser for information on specific credit requirements.

**Quality of Work**

Candidates must complete the degree requirements for their major and earn at least a 2.00 grade-point average for all courses completed within their degree program.

**Limitations on Source and Time for Credit Acquisition**

Credit used toward degree programs may need to be earned from a particular source or within time constraints (see Senate Policy 83-80 (http://senate.psu.edu/policies-and-rules-for-undergraduate-students/82-00-and-83-00-degree-requirements/#83-80)). For more information, check the Suggested Academic Plan for your intended program.