MECHANICAL ENGINEERING TECHNOLOGY, A.ENGT. (BEHREND)

Begin Campus: Erie

End Campus: Erie

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.

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.

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>
</tbody>
</table>

or ENGL 30H Honors Rhetoric and Composition

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 &amp; MATH 26</td>
<td>College Algebra II and Analytic Geometry and Plane Trigonometry</td>
<td></td>
</tr>
<tr>
<td>MATH 40</td>
<td>Algebra, Trigonometry, and Analytic Geometry</td>
<td>1,2</td>
</tr>
<tr>
<td>MATH 81 &amp; MATH 82</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:

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<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 150</td>
<td>Technical Physics I</td>
<td>3-4</td>
</tr>
<tr>
<td>PHYS 211</td>
<td>General Physics I</td>
<td></td>
</tr>
</tbody>
</table>
PHYS 250  Introductory Physics I
Select 3-4 credits of the following: 3-4
PHYS 151  Technical Physics II
PHYS 212  General Physics: Electricity and Magnetism
PHYS 251  Introductory Physics II
Select at least 19-24 credits from one of the following three tracks: 19-24

**General Track**
- EDSGN 100  Cornerstone Engineering Design
- EDSGN 110  Spatial Analysis in Engineering Design
  or EGT 114  Spatial Analysis and Computer-Aided Drafting
- EET 105  Electrical Systems
- MET 107  Computer Applications for Technologists
- STS 200  Critical Issues in Science, Technology, and Society
  or STS 233
  or STS 245
Select at least 6 credits from the approved supporting course list for this track

**Baccalaureate Electro-Mechanical Engineering Technology (EMET) Track**
- CMPET 117  Digital Electronics
- CMPET 120  Digital Electronics Laboratory
- EDSGN 100  Cornerstone Engineering Design
- EDSGN 110  Spatial Analysis in Engineering Design
  or EGT 114  Spatial Analysis and Computer-Aided Drafting
- EET 105  Electrical Systems
- EET 114  Electrical Circuits II
- EET 118  Electrical Circuits Laboratory
- MATH 83  Technical Calculus
  or MATH 140  Calculus With Analytic Geometry
- STS 200  Critical Issues in Science, Technology, and Society
  or STS/PHIL 233
  or STS 245

**Baccalaureate Mechanical Engineering Technology (METBC or MET) Track**
- EET 100  Electric Circuits, Power, and Electronics
- EGT 120  Introduction to Graphics and Solid Modeling
- EGT 121  Applied Solid Modeling
- MET 107  Computer Applications for Technologists
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.