

MECHANICAL ENGINEERING TECHNOLOGY, A.ENG.T. (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:

Requirement	Credits
General Education	21
Requirements for the Major	54-64

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.

Code	Title	Credits
Prescribed Courses		
CAS 100	Effective Speech	3
IET 215	Production Design	2
IET 216	Production Design Laboratory	2
MET 213	Strength and Properties of Materials	3
MET 214	Strength and Properties of Materials Laboratory ¹	1
MET 210W	Machine Design	3
<i>Prescribed Courses: Require a grade of C or better</i>		
IET 101	Manufacturing Materials, Processes, and Laboratory	3
MET 111	Mechanics for Technology: Statics	3
MET 206	Dynamics	3
Additional Courses		
ENGL 15	Rhetoric and Composition	3
or ENGL 30H	Honors Rhetoric and Composition	
Select 5-6 credits of the following:		5-6
MATH 22 & MATH 26	College Algebra With Analytic Geometry and Applications II and Plane Trigonometry and Applications of Trigonometry	
MATH 40	Algebra, Trigonometry, and Analytic Geometry ^{1,2}	
MATH 81 & MATH 82	Technical Mathematics I and Technical Mathematics II ^{1,2}	
MATH 82	Technical Mathematics II ^{1,2}	
Select 3-4 credits of the following:		3-4
PHYS 150	Technical Physics I	
PHYS 211	General Physics: Mechanics	
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	Ethics and the Design of Technology
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 ¹
CMPET 120	Digital Electronics Laboratory ¹
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 ¹
EET 118	Electrical Circuits Laboratory ¹
MATH 83	Technical Calculus ^{1,2}
or MATH 140	Calculus With Analytic Geometry I
STS 200	Critical Issues in Science, Technology, and Society
or STS/PHIL 233	Ethics and the Design of Technology
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.

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 and Inter-Domain courses do not meet this requirement.)

- **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 may be used to satisfy more than one requirement, the credits from the course can be counted only once.

Exploration

- **Any General Education course (including GHW and Inter-Domain):** 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 (<https://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.