

BIOMEDICAL ENGINEERING TECHNOLOGY, A.ENG.T.

Begin Campus: Wilkes-Barre, Altoona, Berks, DuBois, Erie, Fayette, New Kensington, York

End Campus: New Kensington

Degree Requirements

For the Associate in Engineering Technology degree in Biomedical Engineering Technology, a minimum of 71 credits is required:

Requirement	Credits
General Education	21
Requirements for the Major	62-65

12 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.

Requirements for the Major

To graduate, a student enrolled in the major must earn a grade of C or better in each course designated by the major as a C-required course, as specified by Senate Policy 82-44 (<https://senate.psu.edu/policies-and-rules-for-undergraduate-students/82-00-and-83-00-degree-requirements/#82-44>).

Code	Title	Credits
Prescribed Courses		
BE_T 101	Introduction to Medical Equipment Maintenance	1
CMPET 117	Digital Electronics	3
CMPET 120	Digital Electronics Laboratory	1
EET 105	Electrical Systems	3
IST 220	Networking and Telecommunications	3
PHYS 150	Technical Physics I	3
RADSC 230	Radiographic Physics	3
SRA 111	Introduction to Security and Risk Analysis	3
<i>Prescribed Courses: Require a grade of C or better</i>		
BE_T 201	Medical Equipment & Systems I	5
BE_T 203	Biomedical Equipment Laboratory (Internship) (must be the last course taken for the degree) ¹	4
BE_T 204W	Medical Equipment and Systems II	5
BE_T 205	Medical Electronics	4
BE_T 206	Medical Computers and Networks	4
CAS 100	Effective Speech	3
ENGL 15	Rhetoric and Composition	3
Additional Courses		
CHEM 110	Chemical Principles I	3
or CHEM 130	Introduction to General, Organic, and Biochemistry	
Select Sequence A or Sequence B:		6-8

Sequence A:

BIOL 161	Human Anatomy and Physiology I - Lecture
BIOL 162	Human Anatomy and Physiology I - Laboratory
BIOL 162	Human Anatomy and Physiology I - Laboratory
BIOL 163	Human Anatomy and Physiology II - Lecture

BIOL 164	Human Anatomy and Physiology II - Laboratory	
<i>Sequence B:</i>		
BISC 4	Human Body: Form and Function	
Select 3 credits of technical list:		
BE_T 210	Troubleshooting Medical Equipment	
BE_T 296	Independent Studies	
BE_T 297	Special Topics	
BIOL 129	Mammalian Anatomy	
CMPET 211	Embedded Processors and DSP	
CMPS 101	Introduction to Programming	
EDSGN 100	Cornerstone Engineering Design	
EET 213W	Fundamentals of Electrical Machines Using Writing Skills	
EET 297	Special Topics	
EGT 201	Advanced Computer Aided Drafting	
MET 111	Mechanics for Technology: Statics	
<i>Additional Courses: Require a grade of C or better</i>		
MATH 22 & MATH 26	College Algebra With Analytic Geometry and Applications II and Plane Trigonometry and Applications of Trigonometry ²	5-6
or MATH 40	Algebra, Trigonometry, and Analytic Geometry	

¹ BE_T 203 must be the last course taken for the degree.

² A grade of C or better is required for either MATH 22 or MATH 26.

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.