BIOMEDICAL ENGINEERING TECHNOLOGY, A.ENGT.

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:

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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

Prescribed Courses: Require a grade of C or better

BE_T 201 Medical Equipment & Systems I        5
BE_T 203 Biomedical Equipment Laboratory (Internship) (must be the last course taken for the degree)  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  3
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

Sequence B:

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
CMPSC 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

Additional Courses: Require a grade of C or better

MATH 22 College Algebra With Analytic Geometry and Applications II  5-6
& MATH 26 Plane Trigonometry and Applications of Trigonometry

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.