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:

<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>62-65</td>
</tr>
</tbody>
</table>

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.

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

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 (http://senate.psu.edu/policies-and-rules-for-undergraduate-students/82-00-and-83-00-degree-requirements/#82-44).

Code | Prescribed Courses | Title | Credits |
---|-------------------|-------|---------|
BE_T 101 | CMPET 117 | Digital Electronics | 3 |
BE_T 102 | EET 105 | Electrical Systems | 3 |
BE_T 103 | IST 220 | Networking and Telecommunications | 3 |
BE_T 104 | PHYS 150 | Technical Physics | 3 |
BE_T 105 | RADSC 230 | Radiographic Physics | 3 |
BE_T 201 | BE_T 203 | Biomedical Equipment Laboratory (Internship) | 4 |
BE_T 204W | BE_T 205 | Medical Equipment & Systems | 5 |
BE_T 206 | BE_T 206 | Medical Computers and Networks | 4 |
BE_T 207 | CAS 100 | Effective Speech | 3 |
BE_T 208 | ENGL 15 | Rhetoric and Composition | 3 |
BE_T 209 | SRA 111 | Introduction to Security and Risk Analysis | 3 |
CHEM 110 | CHEM 130 | Chemical Principles | 3 |
CHEM 131 | or CHEM 130 | Introduction to General, Organic, and Biochemistry | 3 |
BE_T 201 | BE_T 201 | Human Anatomy and Physiology I - Lecture | 3 |
BE_T 202 | BE_T 202 | Human Anatomy and Physiology I - Laboratory | 3 |
BE_T 203 | BE_T 203 | Human Anatomy and Physiology I - Laboratory | 3 |
BE_T 204 | BE_T 204 | Human Anatomy and Physiology II - Lecture | 3 |

Sequence A:

BE_T 201 | BE_T 201 | Human Anatomy and Physiology I - Lecture | 3 |
BE_T 202 | BE_T 202 | Human Anatomy and Physiology I - Laboratory | 3 |
BE_T 203 | BE_T 203 | Human Anatomy and Physiology I - Laboratory | 3 |
BE_T 204 | BE_T 204 | Human Anatomy and Physiology II - Lecture | 3 |

Sequence B:

BE_T 201 | BE_T 201 | Human Anatomy and Physiology I - Lecture | 3 |
BE_T 202 | BE_T 202 | Human Anatomy and Physiology I - Laboratory | 3 |
BE_T 203 | BE_T 203 | Human Anatomy and Physiology I - Laboratory | 3 |
BE_T 204 | BE_T 204 | Human Anatomy and Physiology II - Lecture | 3 |
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 164</td>
<td>Human Anatomy and Physiology II - Laboratory</td>
</tr>
</tbody>
</table>

**Sequence B:**

- BISC 4  Human Body: Form and Function
- 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 & MATH 26  College Algebra II and Analytic Geometry and Plane 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.