ELECTRICAL ENGINEERING TECHNOLOGY, B.S. (ENGINEERING)

Begin Campus: Any Penn State Campus
End Campus: Wilkes-Barre

Program Description
The Bachelor of Science graduate with a major in Electrical Engineering Technology (EET) is an engineering technologist who can bridge the gap between scientific advancement and practical electrical devices and systems. Research in all fields of electrical engineering has produced an abundance of new knowledge in recent years. Many of these advanced scientific achievements have been unused due to the shortage of engineering technologists specifically educated to convert scientific information into practical devices and systems.

The EET major helps equip students with the various skills necessary to adapt new scientific knowledge to new products. Technical selections are offered in the senior year to provide some degree of specialization, but all graduates receive a well-rounded basic education in electrical and electronic design principles. The strengths of the program include: an applied hands-on program; extensive laboratory experience; promising job placement; and accreditation by the Engineering Technology Accreditation Commission of the Accreditation Board for Engineering and Technology, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, telephone 410-347-7700, Web at https://www.abet.org.

EET graduates who wish to continue their professional development can take the Fundamentals of Engineering examination in Pennsylvania, a prerequisite for taking the Professional Engineering examination.

What is Electrical Engineering Technology?
Electrical engineering technology (EET) is an engineering technology field that implements and applies the principles of electrical engineering. Like electrical engineering, EET deals with the design, application, installation, manufacturing, operation or maintenance of electrical/electronic systems. However, EET is a specialized discipline that has more focus on application, theory, and applied design, and implementation, while electrical engineering may have more of a generalized emphasis on theory and conceptual design.

You Might Like This Program If...
- You enjoy problem-solving and math.
- You prefer practical rather than theoretical solutions, and application and implementation over conceptual modeling.
- You enjoy working on multidisciplinary teams on complex problems.
- You want to acquire knowledge to get a good job in industry.
- You want to pursue a career as a technologist in sectors such as manufacturing, product design, testing, or technical services and sales.

Direct Admission to the Major
Incoming first-year students who meet the program admission requirements are admitted directly into the major. Admission restrictions may apply for change-of-major and/or change-of-campus students.

For more information about the admission process for this major, please send a request to the college, campus, or program contact (listed in the Contact tab).

Degree Requirements
For the Bachelor of Science degree in Electrical Engineering Technology, a minimum of 128 credits is required:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education</td>
<td>45</td>
</tr>
<tr>
<td>Electives</td>
<td>5-18</td>
</tr>
<tr>
<td>Requirements for the Major</td>
<td>86-96</td>
</tr>
</tbody>
</table>

18-21 of the 45 credits for General Education are included in the Requirements for the Major. For the General Electrical Engineering Technology Option, this includes: 3 credits of GWS courses; 9 credits of GN courses; 6 credits of GQ courses; 3 credits of GS. For the Power and Automation Option, this includes: 3 credits of GWS courses; 9 credits of GN courses; 6 credits of GQ 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).

Common Requirements for the Major (All Options)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Prescribed Courses</td>
<td></td>
</tr>
<tr>
<td>CHEM 110</td>
<td>Chemical Principles I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 111</td>
<td>Experimental Chemistry I</td>
<td>1</td>
</tr>
<tr>
<td>EET 419</td>
<td>Capstone Proposal Preparation</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Prescribed Courses: Require a grade of C or better</td>
<td></td>
</tr>
<tr>
<td>EET 312</td>
<td>Electric Transients</td>
<td>4</td>
</tr>
<tr>
<td>EET 331</td>
<td>Electronic Design</td>
<td>4</td>
</tr>
<tr>
<td>EET 420W</td>
<td>Electrical Engineering Technology Capstone Design</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 202C</td>
<td>Effective Writing: Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>MATH 140</td>
<td>Calculus With Analytic Geometry I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 141</td>
<td>Calculus With Analytic Geometry II</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Additional Courses</td>
<td></td>
</tr>
<tr>
<td>CMPEH 472</td>
<td>Microprocessors</td>
<td>3-4</td>
</tr>
<tr>
<td>or CMPET 211</td>
<td>Embedded Processors and DSP</td>
<td></td>
</tr>
<tr>
<td>EE 310</td>
<td>Electronic Circuit Design I</td>
<td>4</td>
</tr>
<tr>
<td>or EET 212W</td>
<td>Op Amp and Integrated Circuit Electronics</td>
<td></td>
</tr>
<tr>
<td>Select 2-3 credits from the following:</td>
<td>2-3</td>
<td></td>
</tr>
<tr>
<td>EDSGN 100</td>
<td>Cornerstone Engineering Design</td>
<td></td>
</tr>
<tr>
<td>EDSGN 100S</td>
<td>Introduction to Engineering Design</td>
<td></td>
</tr>
<tr>
<td>EGT 119</td>
<td>Introduction to CAD for Electrical and Computer Engineering</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 3 credits from the following: 3
 CMPSC 101 Introduction to Programming
 CMPSC 121 Introduction to Programming Techniques
 CMPSC 131 Programming and Computation I: Fundamentals
 CMPSC 201 Programming for Engineers with C++
Select 3-4 credits from the following: 3-4
 PHYS 150 Technical Physics I
 PHYS 211 General Physics: Mechanics
 PHYS 250 Introductory Physics I
Select 3-4 credits from the following: 3-4
 PHYS 151 Technical Physics II
 PHYS 212 General Physics: Electricity and Magnetism
 PHYS 251 Introductory Physics II
Select 3-4 credits from the following: 3-4
 IE 424 Process Quality Engineering
 MATH 220 Matrices
 MATH 230 Calculus and Vector Analysis
 MATH 250 Ordinary Differential Equations
 MATH/STAT 414 Introduction to Probability Theory
 MATH/STAT 418 Introduction to Probability and Stochastic Processes for Engineering
 STAT 200 Elementary Statistics
 STAT 401 Experimental Methods
Select 4 credits from the following: 4
 CMPEN 270 Digital Design: Theory and Practice
 CMPEN 271 Introduction to Digital Systems and Digital Design Laboratory
 CMPBT 117 Digital Electronics and Digital Electronics Laboratory
Select 3-5 credits from the following: 3-5
 EE 485 Energy Systems and Conversion
 EET 213W Fundamentals of Electrical Machines Using Writing Skills
 EET 214 Electric Machines and Energy Conversion and Electric Machines and Energy Conversion Laboratory
 Additional Courses: Require a grade of C or better
Select 5-8 credits from the following: 5-8
 EE 210 Circuits and Devices
 & EE 317 and Circuits II and Data Acquisition
 EET 310 Direct and Alternating Current Circuits
 EET 311 Alternating Current Circuits and Electrical Circuits II
Requirements for the Option
Select an option

Additional Courses
 System Elective
 Select 8 credits of technical electives from the following: 8
 EET 408 Communication System Design
 EET 409 Power System Analysis I
 EET 433 Control System Analysis and Design
 Electronics Elective
 Select 4 credits from the following: 4
 EE 413 Power Electronics
 EET 402 High-Frequency Circuit Design
 EET 431 Advanced Electronic Design
 EET 461 Power Electronics
 EET 496 Independent Studies
 GEET Technical Electives
 Select 8 credits of GEET technical electives from the following: 8
 CMPEN 431 Introduction to Computer Architecture
 CMPET 401 Data Communication and Networking Laboratory
 CMPET 402 Data Communication and Networking Laboratory
 CMPET 403 Switching Circuit Design
 CMPET 412 Microcomputers
 EE 413 Power Electronics
 EE 442 Solid State Devices
 EE 453 Fundamentals of Digital Signal Processing
 EE/EGEE/ESC 456 Introduction to Neural Networks
 EE 458 Digital Image Processing and Computer Vision
 EET 402 High-Frequency Circuit Design
 EET 408 Communication System Design
 EET 409 Power System Analysis I
 EET 410 Power System Analysis II
 EET 413 Optoelectronics
 EET 414 Biomedical Instrumentation
 EET 431 Advanced Electronic Design
 EET 433 Control System Analysis and Design
 EET 456 Automation and Robotics
 EET 461 Power Electronics
 EET 478 Digital Communication Systems
 EET 496 Independent Studies
Science, Engineering, and Technology (SET Electives)
 Select 3 credits from the following: 3
 BIOL 141 Introduction to Human Physiology
 CHEM 112 Chemical Principles II
 CHEM 113 Experimental Chemistry II
 CMPSC 122 Intermediate Programming
 CMPSC 132 Programming and Computation II: Data Structures
 CMPSC 200 Programming for Engineers with MATLAB
 CMPSC 201 Programming for Engineers with C++
 CMPSC 312 Computer Organization and Architecture
 EE 330 Engineering Electromagnetics
 EE 341 Semiconductor Device Principles
 EMCH 211 Statics
 EMCH 212 Dynamics

Requirements for the Option
General Electrical Engineering Technology Option (26 credits)
 Available at the following campuses: Harrisburg, Wilkes-Barre

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 320Y</td>
<td>Design for Global Society</td>
<td>3</td>
</tr>
</tbody>
</table>

1. EET 114 does not require a grade of C or better.
**Power and Automation Option (26 credits)**

*Available at the following campuses: Harrisburg, Wilkes-Barre*

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 220</td>
<td>Matrices</td>
<td></td>
</tr>
<tr>
<td>MATH 230</td>
<td>Calculus and Vector Analysis</td>
<td></td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus of Several Variables</td>
<td></td>
</tr>
<tr>
<td>MATH 232</td>
<td>Integral Vector Calculus</td>
<td></td>
</tr>
<tr>
<td>MATH 250</td>
<td>Ordinary Differential Equations</td>
<td></td>
</tr>
<tr>
<td>MATH 251</td>
<td>Ordinary and Partial Differential Equations</td>
<td></td>
</tr>
<tr>
<td>MATH 252</td>
<td>Partial Differential Equations</td>
<td></td>
</tr>
<tr>
<td>MATH 430</td>
<td>Linear Algebra and Discrete Models I</td>
<td></td>
</tr>
<tr>
<td>ME 201</td>
<td>Introduction to Thermal Science</td>
<td></td>
</tr>
<tr>
<td>ME 300</td>
<td>Engineering Thermodynamics I</td>
<td></td>
</tr>
<tr>
<td>PHYS 213</td>
<td>General Physics: Fluids and Thermal Physics</td>
<td></td>
</tr>
<tr>
<td>PHYS 214</td>
<td>General Physics: Wave Motion and Quantum Physics</td>
<td></td>
</tr>
<tr>
<td>PHYS 237</td>
<td>Introduction to Modern Physics</td>
<td></td>
</tr>
<tr>
<td>PHYS 462</td>
<td>Applications of Physics in Medicine</td>
<td></td>
</tr>
<tr>
<td>SSET 495</td>
<td>Internship</td>
<td></td>
</tr>
<tr>
<td>STAT 200</td>
<td>Elementary Statistics</td>
<td></td>
</tr>
</tbody>
</table>

**Additional Courses**

Select 14 credits from the following:

- EET 409 Power System Analysis I
- EET 410 Power System Analysis II
- EET 433 Control System Analysis and Design
- EET 461 Power Electronics
- EET 475 Intermediate Programmable Logic Controllers

**System Electives**

Select 12 credits from the following:

- EET 409 Power System Analysis I
- EET 410 Power System Analysis II
- EET 433 Control System Analysis and Design
- EET 461 Power Electronics
- EET 475 Intermediate Programmable Logic Controllers

**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 baccalaureate 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/baccalaureate-degree-general-education-program/](https://bulletins.psu.edu/undergraduate/general-education/baccalaureate-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): 6 credits
- Writing and Speaking (GWS): 9 credits

**Breadth in the Knowledge Domains (Inter-Domain courses do not meet this requirement.)**

- Arts (GA): 3 credits
- Health and Wellness (GHW): 3 credits
- Humanities (GH): 3 credits
- Social and Behavioral Sciences (GS): 3 credits
- Natural Sciences (GN): 3 credits

**Integrative Studies**

- Inter-Domain Courses (Inter-Domain): 6 credits

**Exploration**

- GN, may be completed with Inter-Domain courses: 3 credits
- GA, GH, GN, GS, Inter-Domain courses. This may include 3 credits of World Language course work beyond the 12th credit level or the requirements for the student's degree program, whichever is higher: 6 credits

**University Degree Requirements**

**First Year Engagement**

All students enrolled in a college or the Division of Undergraduate Studies at University Park, and the World Campus are required to take 1 to 3 credits of the First-Year Seminar, as specified by their college First-Year Engagement Plan.

Other Penn State colleges and campuses may require the First-Year Seminar; colleges and campuses that do not require a First-Year Seminar provide students with a first-year engagement experience.

First-year baccalaureate students entering Penn State should consult their academic adviser for these requirements.

**Cultures Requirement**

6 credits are required and may satisfy other requirements

- United States Cultures: 3 credits
- International Cultures: 3 credits
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 120 degree credits must be earned for a baccalaureate degree. The requirements for some programs may exceed 120 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
The college dean or campus chancellor and program faculty may require up to 24 credits of course work in the major to be taken at the location or in the college or program where the degree is earned. 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.

Academic Advising
The objectives of the university’s academic advising program are to help advisees identify and achieve their academic goals, to promote their intellectual discovery, and to encourage students to take advantage of both in-and out-of class educational opportunities in order that they become self-directed learners and decision makers.

Both advisers and advisees share responsibility for making the advising relationship succeed. By encouraging their advisees to become engaged in their education, to meet their educational goals, and to develop the habit of learning, advisers assume a significant educational role. The advisee’s unit of enrollment will provide each advisee with a primary academic adviser, the information needed to plan the chosen program of study, and referrals to other specialized resources.

READ SENATE POLICY 32-00: ADVISING POLICY (https://senate.psu.edu/policies-and-rules-for-undergraduate-students/32-00-advising-policy/)

Wilkes-Barre
Timothy Sichler
Assistant Teaching Professor
44 University Drive
Dallas, PA 18612
570-675-9135
tjs37@psu.edu

Harrisburg
AB Shafaye, M.S.
Program Chair
Olmsted Building, W256a
Middletown, PA 17057
717-948-6349
mes121@psu.edu

Suggested Academic Plan
The suggested academic plan(s) listed on this page are the plan(s) that are in effect during the 2023-24 academic year. To access previous years’ suggested academic plans, please visit the archive (https://bulletins.psu.edu/undergraduate/archive/) to view the appropriate Undergraduate Bulletin edition (Note: the archive only contains suggested academic plans beginning with the 2018-19 edition of the Undergraduate Bulletin).

General Option: Electrical Engineering Technology, B.S. at Wilkes-Barre Campus
The course series listed below provides only one of the many possible ways to move through this curriculum. The University may make changes in policies, procedures, educational offerings, and requirements at any time. This plan should be used in conjunction with your degree audit report. Please consult with a Penn State academic adviser on a regular basis to develop and refine an academic plan that is appropriate for you.

First Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Credits</th>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 22 or higher placement on ALEKS†</td>
<td>3</td>
<td>EET 114</td>
<td>4</td>
<td></td>
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<tr>
<td>MATH 26 or higher placement on ALEKS†</td>
<td>3</td>
<td>EET 118</td>
<td>1</td>
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<tr>
<td>EET 105</td>
<td>3</td>
<td>CMPET 117</td>
<td>3</td>
<td></td>
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<tr>
<td>ENGL 15†</td>
<td>3</td>
<td>CMPET 120</td>
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<td></td>
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<tr>
<td>PSU 8</td>
<td>1</td>
<td>MATH 140†</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>CMPSC 101†</td>
<td>3</td>
<td>EDSGN 100</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PHYS 150 or 250</td>
<td>3-4</td>
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<tr>
<td><strong>Total Credits</strong></td>
<td><strong>16</strong></td>
<td><strong>19-20</strong></td>
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Second Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Credits</th>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>EET 212W</td>
<td>4</td>
<td>General Education Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>EET 214</td>
<td>3</td>
<td>General Education Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>EET 215</td>
<td>1</td>
<td>General Education Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MATH 141†</td>
<td>4</td>
<td>CMPET 211</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PHYS 151 or 251</td>
<td>3-4</td>
<td>CAS 100A†</td>
<td>3</td>
<td></td>
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<tr>
<td><strong>General Education Course (GHW)</strong></td>
<td><strong>3</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td><strong>15-16</strong></td>
<td><strong>18</strong></td>
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Third Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Credits</th>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 110</td>
<td>3</td>
<td>EET 312*</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>CHEM 111</td>
<td>1</td>
<td>EET 331*</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>EET 311†</td>
<td>4</td>
<td>ENGL 202C‡</td>
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<td></td>
</tr>
<tr>
<td>General Education Course</td>
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<td>General Education Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>STAT 200†</td>
<td>4</td>
<td>General Education Course</td>
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</tr>
<tr>
<td><strong>Total Credits</strong></td>
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Fourth Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Credits</th>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>EET 419</td>
<td>1</td>
<td>EET 420W</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>EET 431³</td>
<td>4</td>
<td>EET 456²</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>EET 414²</td>
<td>4</td>
<td>EET 408⁴</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>EET 478²</td>
<td>4</td>
<td>EET 4XX elective from list</td>
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<td></td>
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</tbody>
</table>
Electrical Engineering Technology, B.S. (Engineering) 5

EET 433^4 4

Total Credits 132-134

* Course requires a grade of C or better for the major
‡ Course requires a grade of C or better for General Education
# Course is an Entrance to Major requirement
† Course satisfies General Education and degree requirement

University Requirements and General Education Notes:

US and IL are abbreviations used to designate courses that satisfy Cultural Diversity Requirements (United States and International Cultures).

W, M, X, and Y are the suffixes at the end of a course number used to designate courses that satisfy University Writing Across the Curriculum requirement.

General Education includes Foundations (GWS and GQ), Knowledge Domains (GHW, GN, GA, GH, GS) and Integrative Studies (Inter-domain) requirements. N or Q (Honors) is the suffix at the end of a course number used to help identify an Inter-domain course, but the inter-domain attribute is used to fill audit requirements. Foundations courses (GWS and GQ) require a grade of 'C' or better.

1 Math electives include:
   MATH 230, MATH 250, MATH 408, MATH 411, MATH 444, MATH 446, STAT 200.
2 GEET electives include:
   CMPEH 449, CMPET 401, CMPET 402, CMPET 403, CMPET 412, CMPEN 431, EET 441, EE 453, EET 410, EET 413, EET 414, EET 456, EET 478, ET 496
3 Electronics Elective:
   Select 4 credits from: EET 402, EET 423, EET 431.
4 System Elective:
   Select 8 credits of technical electives from: EET 408, EET 409, EET 433.

Career Paths

According to the U.S. Bureau of Labor Statistics, electrical engineering technologists work closely with electrical and electronics engineers and computer hardware engineers in the computer systems design services industry. Opportunities can be found in a variety of firms engaged in electronic manufacturing, industrial control, applications engineering, and in power utilities. EET graduates are encouraged to continue their professional development by taking the Fundamentals of Engineering Examination at the end of their senior year; the FE exam is a prerequisite for taking the Professional Engineering Examination.

Careers

• Design, maintain, troubleshoot electronic circuits and systems. These range from power electronics, fiber optics, control systems, networking technologies, electronic systems, etc.
• Strong focus on power generation and distribution.
• Strong introduction to embedded systems.
• Automation of facilities: From distribution centers to manufacturing plants.
• Experience in the use of hardware used in instrumentation laboratories.

• This program trains students in the same software as currently used by industry.

Opportunities for Graduate Studies

Graduates of the EET program are eligible to pursue graduate studies in a variety of programs such as Electrical Engineering, Systems Engineering, Engineering Management, etc. In some cases prior to being accepted to these programs, graduates of the EET program may be required to take additional math courses.

Accreditation

The Bachelor of Science in Electrical Engineering Technology at Penn State Wilkes-Barre is accredited by the Engineering Technology Accreditation Commission of ABET, https://www.abet.org, under the General Criteria and the Electrical and Electronics Engineering Technology Program Criteria.

Professional Licensure/Certification

Many U.S. states and territories require professional licensure/certification to be employed. If you plan to pursue employment in a licensed profession after completing this program, please visit the Professional Licensure/Certification Disclosures by State (https://www.psu.edu/state-licensure-disclosures/) interactive map.

Contact

Wilkes-Barre
ENGINEERING TECHNOLOGY AND COMMONWEALTH ENGINEERING
44 University Drive
Dallas, PA 18612
570-675-9135
tjs37@psu.edu
https://wilkesbarre.psu.edu/academics/eet

Harrisburg
SCHOOL OF SCIENCE, ENGINEERING, AND TECHNOLOGY
Olmsted Building W256
Middletown, PA 17057
717-948-4349
klb68@psu.edu
https://harrisburg.psu.edu/science-engineering-technology/electrical-engineering-technology-bs