ELECTRICAL ENGINEERING TECHNOLOGY, B.S. (CAPITAL)

Begin Campus: Any Penn State Campus
End Campus: Harrisburg

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.

Entrance to Major
Entry to the Electrical Engineering Technology major requires a 2.00 or higher cumulative grade-point average.

Re-enrollment
Associate degree students should file a re-enrollment form during the final semester of their associate degree. Students re-enrolling from an associate’s degree into the bachelor’s degree should run a degree audit from LionPATH, using the EET major code, to determine their curriculum requirements. Similar considerations apply to students changing majors from programs in science or engineering.

Admission Requirements for Transfer Students
Applicants must have earned a high school diploma or equivalent and have attempted at least 18 semester credits at a regionally accredited college or university with at least a 2.0 cumulative grade-point average (4.0 scale). The evaluation of prior college work is done on an individual basis by the Office of Enrollment Services.

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/students/policies-and-rules-for-undergraduate-students/82-00-and-83-00-degree-requirements/).

Common Requirements for the Major (All Options)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<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>
</tbody>
</table>

Prescribed Courses: Require a grade of C or better

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<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>
</tbody>
</table>

Additional Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<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>
</tbody>
</table>
Select 2-3 credits from the following:
- EDSGN 100 Cornerstone Engineering Design
- EDSGN 100S Introduction to Engineering Design
- EGT 119 Introduction to CAD for Electrical and Computer Engineering

Select 3 credits from the following:
- 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 credits from the following:
- PHYS 150 Technical Physics I
- PHYS 211 General Physics: Mechanics
- PHYS 250 Introductory Physics I

Select 3-4 credits from the following:
- MATH 220 Matrices
- MATH 230 Calculus and Vector Analysis
- MATH 250 Ordinary Differential Equations
- MATH/STAT 314 Introduction to Probability Theory

Select 4 credits from the following:
- IE 424 Process Quality Engineering
- MATH 220 Matrices
- MATH 230 Calculus and Vector Analysis
- MATH 250 Ordinary Differential Equations

Select 4 credits from the following:
- CMPEN 270 Digital Design: Theory and Practice
- CMPEN 271 Introduction to Digital Systems
- CMPET 117 Digital Electronics
- CMPET 120 Digital Electronics Laboratory

Select 3-5 credits from the following:
- EE 485 Energy Systems and Conversion
- EET 213W Fundamentals of Electrical Machines Using Writing Skills
- EET 214 Electric Machines and Energy Conversion Laboratory

Select 5-8 credits from the following:
- EE 210 Circuits and Devices
- EE 310 Direct and Alternating Current Circuits
- EET 311 Alternating Current Circuits

Additional Courses: Require a grade of C or better

Requirements for the Option
Select an option

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

Additional Courses
System Elective
Select 8 credits of technical electives from the following:
- 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:
- 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:
- CMPEN 431 Introduction to Computer Architecture
- CMPET 401 Data Communication and Networking
- CMPET 402 Data Communication and Networking Laboratory
- CMPET 403 Switching Circuit Design
- CMPET 412 EE 413 Power Electronics
- EE 442 Solid State Devices
- EE 453 Fundamentals of Digital Signal Processing
- EE/EGEE/ESCREQUIREMENTS FOR THE MAJOR 456
- 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:

1 EET 114 does not require a grade of C or better.
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
EMCH 213 Strength of Materials
MATH 220 Matrices
MATH 230 Calculus and Vector Analysis
MATH 231 Calculus of Several Variables
MATH 232 Integral Vector Calculus
MATH 250 Ordinary Differential Equations
MATH 251 Ordinary and Partial Differential Equations
MATH 252 Partial Differential Equations
MATH 430 Linear Algebra and Discrete Models I
ME 201 Introduction to Thermal Science
ME 300 Engineering Thermodynamics I
PHYS 213 General Physics: Fluids and Thermal Physics
PHYS 214 General Physics: Wave Motion and Quantum Physics
PHYS 237 Introduction to Modern Physics
PHYS 462 Applications of Physics in Medicine
SSET 495 Internship
STAT 200 Elementary Statistics

Power and Automation Option (26 credits)
Available at the following campuses: Harrisburg, Wilkes-Barre

<table>
<thead>
<tr>
<th>Code</th>
<th>Additional Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>System Electives</td>
</tr>
<tr>
<td>Select 12 credits from the following:</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>EET 409 Power System Analysis I</td>
</tr>
<tr>
<td></td>
<td>EET 410 Power System Analysis II</td>
</tr>
<tr>
<td></td>
<td>EET 433 Control System Analysis and Design</td>
</tr>
<tr>
<td></td>
<td>EET 461 Power Electronics</td>
</tr>
<tr>
<td></td>
<td>EET 475 Intermediate Programmable Logic Controllers</td>
</tr>
</tbody>
</table>

|          | Additional Electives         |
| Select 14 credits from the following: | 14 |
|          | CMPET 401 Data Communication and Networking |
|          | CMPET 402 Data Communication and Networking Laboratory |
|          | CMPET 403 Switching Circuit Design |
|          | EET 341 Measurements and Instrumentation |
|          | 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 475 Intermediate Programmable Logic Controllers
EET 478 Digital Communication Systems
EET 495 Internship
EET 496 Independent Studies
EET 497 Special Topics
EMCH 211 Statics
EMCH 212 Dynamics
ME 201 Introduction to Thermal Science

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/) 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/students/policies-and-rules-for-undergraduate-students/32-00-advising-policy/)

**Harrisburg**
AB Shafaye, M.S.
Program Chair
Olmsted Building, W256a

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**Suggested Academic Plan**
The suggested academic plan(s) listed on this page are the plan(s) that are in effect during the 2024-25 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.

**General Option: Electrical Engineering Technology, B.S. at Harrisburg 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 (accessible in LionPATH as either an Academic Requirements or What If 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**

**Fall**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 15, 15S, 30T, or ESL 15</td>
<td>3 CMPSC 121, 131, or 201</td>
</tr>
<tr>
<td>MATH 140†</td>
<td>3 CHEM 110†</td>
</tr>
<tr>
<td>CHEM 111†</td>
<td>3 PHYS 250, 211, or 150†</td>
</tr>
</tbody>
</table>

**Electives**

| General Education Course (GA) | 1.5 |

| Total Minimum Credits | 15.5-16.5 |

**Spring**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-4 General Education Course (GA)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Second Year**

**Fall**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS 100A or 100S††</td>
<td>3 CMPEN 271</td>
</tr>
<tr>
<td>CMPEN 275</td>
<td>3 SET Elective</td>
</tr>
<tr>
<td>General Education Course (GH)††</td>
<td>3</td>
</tr>
</tbody>
</table>

| Electives               | 6 | 3 |

| Total Minimum Credits | 16 |

**Spring**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-4 General Education Course (Inter-Domain)††</td>
<td>3</td>
</tr>
</tbody>
</table>

| Total Minimum Credits | 16 |

**Third Year**

**Fall**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 EE 310</td>
<td>4 MATH 320, 250, 414, STAT 200, STAT 401, or STAT 418</td>
</tr>
<tr>
<td>3 EET 312*5</td>
<td>4</td>
</tr>
</tbody>
</table>

Middletown, PA 17057
717-948-6349
mes121@psu.edu

**Wilkes-Barre**

Timothy Sichler
Assistant Teaching Professor
44 University Drive
Dallas, PA 18612
570-675-9135
tjs37@psu.edu
<table>
<thead>
<tr>
<th>General Education Course</th>
<th>Credits</th>
<th>Spring Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Inter-Domain)³</td>
<td>3</td>
<td>3 EET 331⁵</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>General Education Course</td>
<td></td>
<td>1.5 EE 485⁵</td>
</tr>
<tr>
<td>(GHW)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>4</td>
</tr>
</tbody>
</table>

**Fourth Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EET 419</td>
<td>1</td>
<td>EET 420W ‡</td>
<td>3</td>
</tr>
<tr>
<td>Electronics Elective</td>
<td>4</td>
<td>ENGR 320Y †</td>
<td>3</td>
</tr>
<tr>
<td>System Elective</td>
<td>4</td>
<td>System Elective</td>
<td>4</td>
</tr>
<tr>
<td>Technical Elective</td>
<td>4</td>
<td>Technical Elective</td>
<td>4</td>
</tr>
<tr>
<td>General Education Course (Exploration: GH, GA, or GS)⁴</td>
<td>3</td>
<td>Electives⁷</td>
<td>0-3</td>
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</table>

<table>
<thead>
<tr>
<th>Total Credits 125-130</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
</tr>
</tbody>
</table>

* 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

1. First-year students at Penn State Harrisburg must take 1 to 3 credits of a First-Year Seminar course, as indicated by the "S" designation at the end of the course number. The program recommends students complete this during their first semester with one of the following courses: ENGL 15S, EDSGN 100S, or CAS 100S.
2. PHYS 250 and PHYS 251 is the recommended physics course sequence for the program.
3. CMPSC 131 recommended.
4. One of the General Education courses must satisfy the US or IL requirement (ENGR 320Y satisfies the other). The knowledge domains that must be satisfied are indicated in parentheses, but these courses may be taken in any order.
5. EET 310 is only offered during Fall semesters.
6. EET 312, EET 331, and EE 485 are only offered during Spring semesters.
7. Up to 3 additional credits of electives may be needed to meet the 128-credit graduation requirement if students select courses other than the ones recommended in this suggested academic plan (for example, PHYS 150/PHYS 151 instead of PHYS 250/PHYS 251).

**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.
A.S. to B.S. General Option: Electrical Engineering Technology, B.S. at Harrisburg 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 (accessible in LionPATH as either an Academic Requirements or What If 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.

Third Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 110</td>
<td>3</td>
<td>CMPSC 101, 121, 131, or 201</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 111†</td>
<td>4</td>
<td>ENGL 202C†</td>
<td>4</td>
</tr>
<tr>
<td>EET 311†</td>
<td>4</td>
<td>MATH 140†</td>
<td>3</td>
</tr>
</tbody>
</table>

General Education Course (GHW) 1.5

Total Credits 16.5

Fourth Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EET 419</td>
<td>3</td>
<td>ENGR 420W†</td>
<td>4</td>
</tr>
<tr>
<td>Electronics Elective</td>
<td>3</td>
<td>System Elective</td>
<td>4</td>
</tr>
<tr>
<td>MATH 230, 250, 414, STAT 200, STAT 418</td>
<td>3</td>
<td>Technical Elective</td>
<td>3</td>
</tr>
<tr>
<td>Technical Elective</td>
<td>3</td>
<td>General Education Course</td>
<td>3</td>
</tr>
</tbody>
</table>

General Education Course (GHW) 1.5

Total Credits 17.5

Total Credits 69

* 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

1 EET 311 is only offered during Fall semesters
2 EET 312 and EET 331 are only offered during Spring semesters.
3 CMPSC 131 recommended.
4 One of the General Education courses must satisfy the US or IL requirement (ENGR 320Y satisfies the other). The knowledge domains that must be satisfied are indicated in parentheses, but these courses may be taken in any order.

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.

Program Notes:

• This suggested academic plan assumes the associate degree contains at least 59 credits of course work. If it contains fewer credits, additional elective credits will be required to meet the total of 128 credits required to complete the B.S. degree.

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 Harrisburg is accredited by the Engineering Technology Accreditation Commission of ABET, https://www.abet.org, under the commission’s General Criteria and Program Criteria for Electrical/ Electronic(s) Engineering Technology and Similarly Named Programs.

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://opair.psu.edu/plc/dashboard/) interactive map.

Contact

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