ELECTRICAL ENGINEERING TECHNOLOGY, A.ENGT. (ENGINEERING)

Begin Campus: Fayette, York
End Campus: Fayette, York

Program Description
The Electrical Engineering Technology (2EET) major helps prepare graduates for technical positions in the expanding fields of electronics, computers, and microprocessors, instrumentation, and electrical equipment. The primary objective is to provide a broad foundation of theoretical and practical knowledge in the areas of electrical and electronic circuits, digital circuits, computers, electrical machinery, and programmable logic controls.

Graduates of the Electrical Engineering Technology major may qualify for admission to the baccalaureate degree majors in Electrical Engineering Technology offered at Penn State Harrisburg, Capital College; the baccalaureate degree major in Electrical and Computer Engineering Technology at Penn State Erie, The Behrend College; or the baccalaureate degree major in Electro-Mechanical Engineering Technology offered at Penn State Altoona, Penn State Berks, Penn State New Kensington or Penn State York. Two baccalaureate tracks are available to streamline the transition to these degree programs. Students interested in pursuing the baccalaureate degree major of Electrical Engineering Technology at Penn State Harrisburg should follow track c. A general track is also provided for students who decide not to continue their engineering technology education at the baccalaureate level.

What is Electrical Engineering Technology?
Electrical engineering technology focuses on the planning, designing, installing, operating, and maintaining electrical power systems and electronic devices. Electrical engineering technicians assist engineers with the manufacture, installation, operation, design, and repair of a wide range of electronic products.

You Might Like This Program If...
You are interested in science and technology but prefer spending time applying your skills in a laboratory or field setting as opposed to studying the theory behind these subjects in a classroom setting. If you like to know how things that are controlled by electronics work, from computers to robotics, this may be for you. While theory is covered in this major, there is a greater emphasis on the application of theory with much of what you learn in the classroom being built as lab experiments.

Entrance to Major
Students must have a minimum 2.0 GPA to change to this Associate degree after admission to the University.

Degree Requirements
For the Associate in Engineering Technology degree in Electrical Engineering Technology, a minimum of 65 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>56-62</td>
</tr>
</tbody>
</table>

12-15 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, 0-3 credits of GH or GS.

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 (http://bulletins.psu.edu/undergraduate/general-education/associate-degree-general-education-program) section of the Bulletin and consult your academic adviser.

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

Foundations or Knowledge Domains
- A General Education course selected from GWS, GQ, GN, GA, GH, or GS, and may include Integrative Studies (Inter-domain or Linked) courses: 3 credits

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.

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).

### Track: A. General Track

Select at least 22-26 credits from one of the following three tracks:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EET 214</td>
<td>Electric Machines and Energy Conversion Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>EET 215</td>
<td>Electric Machines and Energy Conversion</td>
<td>1</td>
</tr>
</tbody>
</table>

**Prescribed Courses:**

- CAS 100: Effective Speech
- CMPET 211: Embedded Processors and DSP
- EET 212
- EET 214
- EET 215

**Additional Courses**

- ENGL 15: Rhetoric and Composition
- or ENGL 30: Honors Freshman Composition
- PHYS 150: Technical Physics I
- or PHYS 211: General Physics: Mechanics
- or PHYS 250: Introductory Physics I

Select 5-6 credits of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 22</td>
<td>College Algebra II and Analytic Geometry &amp; MATH 26</td>
<td>3-4</td>
</tr>
<tr>
<td>MATH 40</td>
<td>Algebra, Trigonometry, and Analytic Geometry</td>
<td>1</td>
</tr>
<tr>
<td>MATH 81</td>
<td>Technical Mathematics I &amp; MATH 82</td>
<td>3</td>
</tr>
</tbody>
</table>

Select at least 22-26 credits from one of the following three tracks: 22-26

**A. General Track**

- EDSGN 100: Introduction to Engineering Design
- EET 105: Electrical Systems
- EET 275: Introduction to Programmable Logic Controls or EMET 230/Computerized I/O Systems
- IET 101: Manufacturing Materials, Processes, and Laboratory
- MCHT 111: Mechanics for Technology: Statics
- PHYS 151: Technical Physics II
- or PHYS 212: General Physics: Electricity and Magnetism
- or PHYS 251: Introductory Physics II
- or CHEM 110: Chemical Principles I & CHEM 111 and Experimental Chemistry I
- STS 200: Critical Issues in Science, Technology, and Society or STS/ PHIL 233 or STS 245: Globalization, Technology, and Ethics

1 A student planning to re-enroll into the baccalaureate degree major of Electro-Mechanical Engineering Technology (EMET), after graduation from the 2 EET program, must receive a grade of C or better in order to meet requirements of the EMET degree.

2 This includes 3 credits of General Education courses: 3 credits of GH or GS.

3 A student planning to re-enroll into the baccalaureate degree major of Electrical Engineering Technology at Penn State Harrisburg, after graduation from the 2EET program, should follow Track C. They should select MATH 140 instead of MATH 83.

### Track: B. Baccalaureate Electrical and Computer Engineering Technology (ECET)

**Track:**

- CHEM 110: Chemical Principles I
- CHEM 111: Experimental Chemistry I
- CMPET 5: Engineering Methods in Engineering Technology
- EET 2: Introduction to Engineering Technology
- EET 101: Electrical Circuits I
- EET 109: Electrical Circuits Laboratory I
- EET 275: Introduction to Programmable Logic Controls
- EGT 119: Introduction to CAD for Electrical and Computer Engineering
- MATH 83: Calculus with Analytic Geometry I
- or MATH 140: Calculus with Engineering Technology

**Track:**

- CHEM 110: Chemical Principles I
- CHEM 111: Experimental Chemistry I
- CMPET 5: Engineering Methods in Engineering Technology
- EET 2: Introduction to Engineering Technology
- EET 101: Electrical Circuits I
- EET 109: Electrical Circuits Laboratory I
- EET 275: Introduction to Programmable Logic Controls
- EGT 119: Introduction to CAD for Electrical and Computer Engineering
- MATH 83: Calculus with Analytic Geometry I
- or MATH 140: Calculus with Engineering Technology

**Track:**

- CHEM 110: Chemical Principles I
- CHEM 111: Experimental Chemistry I
- CMPET 5: Engineering Methods in Engineering Technology
- EET 2: Introduction to Engineering Technology
- EET 101: Electrical Circuits I
- EET 109: Electrical Circuits Laboratory I
- EET 275: Introduction to Programmable Logic Controls
- EGT 119: Introduction to CAD for Electrical and Computer Engineering
- MATH 83: Calculus with Analytic Geometry I
- or MATH 140: Calculus with Engineering Technology

### Track: C. Baccalaureate Electro-Mechanical Engineering Technology (EMET)

**Track: 2**

- CHEM 110: Chemical Principles I
- CHEM 111: Experimental Chemistry I
- CMPET 5: Engineering Methods in Engineering Technology
- EET 2: Introduction to Engineering Technology
- EET 101: Electrical Circuits I
- EET 109: Electrical Circuits Laboratory I
- EET 275: Introduction to Programmable Logic Controls or EMET 230/Computerized I/O Systems
- IET 101: Manufacturing Materials, Processes, and Laboratory
- MCHT 111: Mechanics for Technology: Statics
- MATH 83: Calculus with Analytic Geometry I
- or MATH 140: Calculus with Engineering Technology
- PHYS 151: Technical Physics II
- or PHYS 212: General Physics: Electricity and Magnetism
- or PHYS 251: Introductory Physics II
- or CHEM 110: Chemical Principles I & CHEM 111 and Experimental Chemistry I
- STS 200: Critical Issues in Science, Technology, and Society or STS/ PHIL 233 or STS 245: Globalization, Technology, and Ethics

**Additional Courses:**

- EDSGN 100: Introduction to Engineering Design
- EET 105: Electrical Systems
- EET 275: Introduction to Programmable Logic Controls or EMET 230/Computerized I/O Systems
- IET 101: Manufacturing Materials, Processes, and Laboratory
- MCHT 111: Mechanics for Technology: Statics
- PHYS 151: Technical Physics II
- or PHYS 212: General Physics: Electricity and Magnetism
- or PHYS 251: Introductory Physics II
- or CHEM 110: Chemical Principles I & CHEM 111 and Experimental Chemistry I
- STS 200: Critical Issues in Science, Technology, and Society or STS/ PHIL 233 or STS 245: Globalization, Technology, and Ethics

**Additional Courses:**

- EDSGN 100: Introduction to Engineering Design
- EET 105: Electrical Systems
- EET 275: Introduction to Programmable Logic Controls or EMET 230/Computerized I/O Systems
- IET 101: Manufacturing Materials, Processes, and Laboratory
- MCHT 111: Mechanics for Technology: Statics
- PHYS 151: Technical Physics II
- or PHYS 212: General Physics: Electricity and Magnetism
- or PHYS 251: Introductory Physics II
- or CHEM 110: Chemical Principles I & CHEM 111 and Experimental Chemistry I
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1 A student planning to re-enroll into the baccalaureate degree major of Electro-Mechanical Engineering Technology (EMET), after graduation from the 2 EET program, must receive a grade of C or better in order to meet requirements of the EMET degree.

2 This includes 3 credits of General Education courses: 3 credits of GH or GS.

3 A student planning to re-enroll into the baccalaureate degree major of Electrical Engineering Technology at Penn State Harrisburg, after graduation from the 2EET program, should follow Track C. They should select MATH 140 instead of MATH 83.

### Program Educational Objectives

The Associate Electrical Engineering Technology program is designed to provide a curriculum that prepares students to pursue a career in the industry and to develop in their profession. Due to their experience in the
Associate Electrical Engineering Technology program, within few years of graduation, we expect our graduates to have the ability to:

1. Apply analytical and empirical skills in the operation, testing, or maintenance of electrical systems.
2. Collaborate effectively in project team activities through recognizing the global, societal, and ethical contexts of their work.
3. Communicate effectively through preparation and delivery of technical and non-technical documentation and communications.

Student Outcomes

Student outcomes describe what students are expected to know and be able to do by the time of graduation. The Associate Electrical Engineering Technology program is designed to enable students to:

1. Apply knowledge, techniques, skills, and modern tools of mathematics, science, engineering, and technology to solve well-defined engineering problems appropriate to the discipline.
2. Design solutions for well-defined technical problems and assist with engineering design of systems, components, or processes appropriate to the discipline.
3. Apply written, oral, and graphical communication in both technical and non-technical environments; and an ability to identify and use appropriate technical literature.
4. Conduct standard tests, measurements, and experiments and to analyze and interpret the results.
5. Function effectively as a member of a technical team.

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 advisor, the information needed to plan the chosen program of study, and referrals to other specialized resources.

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

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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 2019-20 academic year. To access previous years’ suggested academic plans, please visit the archive (http://bulletins.psu.edu/undergraduate/archive) to view the appropriate Undergraduate Bulletin edition (Note: the archive only contain suggested academic plans beginning with the 2018-19 edition of the Undergraduate Bulletin).

Electrical Engineering Technology - General Track at Fayette 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.

<table>
<thead>
<tr>
<th></th>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 26 (GQ)†‡</td>
<td>3 EET 114*</td>
<td>3</td>
<td>EET 118†</td>
<td>1</td>
</tr>
<tr>
<td>ENGL 15 (GWS)†‡</td>
<td>3 CMPET 117*</td>
<td>3</td>
<td>EET 105</td>
<td>3</td>
</tr>
<tr>
<td>IET 101</td>
<td>3 CMPET 120</td>
<td>1</td>
<td>EDSDGN 100</td>
<td>3</td>
</tr>
<tr>
<td>PSU 8</td>
<td>1 MATH 22 (GQ)†‡</td>
<td>3</td>
<td>CAS 100 (GWS)†‡</td>
<td>3</td>
</tr>
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<td><strong>Total Credits</strong></td>
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<td>18</td>
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<table>
<thead>
<tr>
<th></th>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EET 214</td>
<td>3 EET 212</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EET 215</td>
<td>1 EET 275</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CMPET 211</td>
<td>3 PHYS 151 or CHEM 110 and CHEM 111</td>
<td>3-4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 250†</td>
<td>4 PHYS 251</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Education Course</td>
<td>3 STS 200, 233, or 245</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Education Course or Technical Elective</td>
<td>3-4 Technical Elective or General Education Course</td>
<td>3-4</td>
<td></td>
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<td><strong>Total Credits</strong></td>
<td>17-18</td>
<td>20-22</td>
<td></td>
<td></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
University Requirements and General Education Notes:

US and IL are abbreviations used to designate courses that satisfy University 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.

GWS, GQ, GN, GA, GH, and GS are abbreviations used to identify General Education program courses. General Education includes Foundations (GWS and GQ) and Knowledge Domains (GN, GA, GH, and GS). Foundations courses (GWS and GQ) require a grade of ‘C’ or better.

College Notes:
A student’s career/graduate school plans should be considered in developing an individual academic plan. Be sure to consult an adviser in this department when scheduling courses.

MCH T 111
MCH T 111 and STS 233 can be swapped (STS 233 in Semester 2 and MCH T 111 in Semester 4) if a student starts in Math 21 in the first semester.

Technical Electives
Students must have an additional 10 credits of technical elective from the following list: BET 201, BISC 3, CHEM 101, CHEM 110, CHEM 111, CMPSC 101, CMPSC 201C, EET 214, EET 215, EET 275, EET 297, EMET 230, IST 210, IST 220, MATH 83, MATH 140, MATH 141, PHYS 151, PHYS 251, TELECOM 140.

Technical Elective Option CHEM 101 is typically offered in Fall semester only and CMPSC 121 (Math 140 Co-requisite) is typically offered in Spring only. Math 140 can be used as a technical elective and is offered every semester and is recommended if a student intends to pursue B.S. degree.

Technical Elective typically offered in Spring semester BISC 3. Math 140 can be used as technical elective and offered every semester and is recommended if a student intends to pursue a B.S. degree.

PHYS 250
Most Students should take Physics 251, however students can use both CHEM 110 and 111 to satisfy this requirement.

STS 233
MCH T 111 and STS 233 can be swapped (STS 233 in Semester 2 and MCH T 111 in Semester 4) if a student starts in Math 21 in the first semester.

Electrical Engineering Technology at York 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

<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>EDSGN 100</td>
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</tr>
<tr>
<td></td>
<td>IET 101</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>EET 105</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MATH 26 (GQ)†‡</td>
<td>3-4</td>
</tr>
<tr>
<td>Spring</td>
<td>3 CMPET 117*</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>3 CMPET 120‡</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>3 MCHT 111</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>3 PHYS 150 or 250 (GN)</td>
<td>3-4</td>
</tr>
</tbody>
</table>

Second Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>EET 114*</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>1 EET 214</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>4 EET 215</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>3 Technical Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>3-4 General Education Course</td>
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<tr>
<td></td>
<td>16-17</td>
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</tr>
</tbody>
</table>

Total Credits 65-67

* 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 University 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.

GWS, GQ, GN, GA, GH, and GS are abbreviations used to identify General Education program courses. General Education includes Foundations (GWS and GQ) and Knowledge Domains (GN, GA, GH, and GS). Foundations courses (GWS and GQ) require a grade of ‘C’ or better.

College Notes:
Scheduling patterns for courses not taught each semester: Some major/option courses are offered only Fall or Spring semester, as listed on guide.

The courses in this major are sequential. If take out of sequence, scheduling conflicts may arise.

Program Notes:
Track Selections - see audit

Academic Advising Notes: Academic planning guides should always be used in conjunction with a degree audit and consultation with an adviser.

Career Paths:
For students that do not continue on for a Bachelor of Engineering Technology Degree, there are various opportunities in the field for Electrical Engineering Technology. In many industrial settings, an Engineer works on the design of an electronic device, such as an electronic sensor, or system, such as a robotic arm, and the technician helps to build and test it. The technician might also be responsible for building test equipment to test the device or system once it is manufactured. In addition, the Electronic Technician might also be involved in servicing equipment in the field or be involved in sales.
MORE INFORMATION ABOUT POTENTIAL CAREER OPTIONS FOR GRADUATES OF THE ELECTRICAL ENGINEERING TECHNOLOGY PROGRAM (http://career.engr.psu.edu)

MORE INFORMATION ABOUT OPPORTUNITIES FOR GRADUATE STUDIES (http://www.engr.psu.edu/students/grad-prospective/default.aspx)

Accreditation
This program is accredited by the Engineering Technology Accreditation Commission of ABET, www.abet.org (http://www.abet.org).

MORE INFORMATION ABOUT ABET ACCREDITATION (http://www.abet.org)

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