ELECTRICAL ENGINEERING TECHNOLOGY, B.S. (CAPITAL)

Begin Campus: Any Penn State Campus
End Campus: Harrisburg

Program Description
Not all options are available at every campus. Contact the campus you are interested in attending to determine which options are offered.

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 ABET, www.abet.org (http://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.

Students are directed to https://bulletins.psu.edu/undergraduate/general-education/ for an explanation of the Penn State General Education requirements.

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 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 at Penn State Harrisburg.

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>5-16</td>
</tr>
<tr>
<td>Requirements for the Major</td>
<td>85-96</td>
</tr>
</tbody>
</table>

18 of the 45 credits for General Education are included in the Requirements for the Major. This includes: 3 credits of GWS courses; 9 credits of GN courses; 6 credits of GQ 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 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/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.)
- Quantification (GQ): 6 credits
- Writing and Speaking (GWS): 9 credits

Knowledge Domains
- Arts (GA): 6 credits
- Health and Wellness (GHW): 3 credits
- Humanities (GH): 6 credits
- Social and Behavioral Sciences (GS): 6 credits
- Natural Sciences (GN): 9 credits
Integrative Studies (may also complete a Knowledge Domain requirement)
- Inter-Domain or Approved Linked Courses: 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). 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.

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>Project Proposal Preparation</td>
<td>1</td>
</tr>
<tr>
<td>ENGL 202C</td>
<td>Effective Writing: Technical Writing</td>
<td>3</td>
</tr>
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</table>

Prescribed Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<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>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 420</td>
<td>Electrical Design Project</td>
<td>3</td>
</tr>
</tbody>
</table>

Additional Courses

Select 2-3 credits of the following: 1

- EDSGN 100 Introduction to Engineering Design
- EGT 101 Technical Drawing Fundamentals
- EGT 102 and Introduction to Computer Aided Drafting

Select 3 credits of the following:

- CMPSC 101 Introduction to C++ Programming
- CMPSC 121 Introduction to Programming Techniques
- CMPSC 201 Programming for Engineers with C++

Select 6-8 credits of the following: 1

- PHYS 150 Technical Physics I & PHYS 151 and Technical Physics II
- PHYS 211 General Physics: Mechanics & PHYS 212 and General Physics: Electricity and Magnetism

Select 3-4 credits of the following:

- CMPEN 271 Introduction to Digital Systems & CMPEN 275 and Digital Design Laboratory
- CMPET 117 Digital Electronics & CMPET 120 and Digital Electronics Laboratory

Select 3-4 credits of the following: 1

- CMPET 211 Embedded Processors and DSP
- CMPEN 271 Introduction to Digital Systems & CMPEN 275 and Digital Design Laboratory

Select 3-4 credits of the following: 1

- EE 310 Electronic Circuit Design I
- EET 205 Semiconductor Laboratory & EET 210 and Fundamentals of Semiconductors

Select 3-5 credits of the following: 1

- EE 485 Energy Systems and Conversion
- EET 213W Fundamentals of Electrical Machines Using Writing Skills

Additional Courses: Require a grade of C or better

Select 5-8 credits of the following: 1

- EE 210 Circuits and Devices & EE 314 and Signals and Circuits II
- EE 315 Electrical Signals and Circuits with Lab
- EET 311 Alternating Current Circuits & EET 114 and Electrical Circuits II

Requirements for the Option

Select an option

1 Courses required by PSU 2 EET programs.
2 EET 114 does not require a grade of C or better.
Requirements for the Option
Computer 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>CMPEN 431</td>
<td>Introduction to Computer Architecture</td>
<td>3</td>
</tr>
<tr>
<td>CMPET 401</td>
<td>Data Communication and Networking</td>
<td>3</td>
</tr>
<tr>
<td>CMPET 402</td>
<td>Data Communication and Networking Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CMPET 403</td>
<td>Switching Circuit Design</td>
<td>4</td>
</tr>
</tbody>
</table>

**Prescribed Courses**

**Additional Courses**

2nd Programming Elective

Select 3 credits of the following:

- CMPSC 122 Intermediate Programming
- CMPSC 402 UNIX and C

Applications Elective

Select 4 credits of technical electives of the following:

- CMPET 412 Microcomputers
- EET 456 Automation and Robotics

**CMPET Technical Electives**

Select 8 credits of the following:

- EE 341 Semiconductor Device Principles
- EE 441 Semiconductor Integrated Circuit Technology
- EE 453 Fundamentals of Digital Signal Processing
- EET 402 High-Frequency Circuit Design
- EET 408 Communication System Design
- EET 413 Optoelectronics
- EET 414 Biomedical Instrumentation
- EET 431 Advanced Electronic Design
- EET 433 Control System Analysis and Design
- EET 478 Digital Communication Systems
- ET 496 Independent Studies

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>EET 408</td>
<td>Communication System Design</td>
<td>8</td>
</tr>
<tr>
<td>EET 409</td>
<td>Power System Analysis I</td>
<td></td>
</tr>
<tr>
<td>EET 433</td>
<td>Control System Analysis I</td>
<td></td>
</tr>
</tbody>
</table>

**System Elective**

Select 8 credits of technical electives of the following:

- EE 402 High-Frequency Circuit Design
- EET 431 Advanced Electronic Design

**Electronics Elective**

Select 4 credits of 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 Microcomputers

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

**Harrisburg**

AB Shafaye, M.S.
Program Chair
Olmsted Building, W256a
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mes121@psu.edu

**Wilkes-Barre**

Timothy Sichler
Program Co-Coordinator, Electrical Engineering Technology
P.O. Box 264
Lehman, PA 18627
570-675-9135
tjs37@psu.edu

**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).
Harrisburg Campus

General Option

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>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ENGL 15 or 30†</td>
<td>3</td>
<td>CMPS 101, 121, or 201</td>
<td>3</td>
</tr>
<tr>
<td>MATH 140†</td>
<td>4</td>
<td>MATH 141</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 110†</td>
<td>3</td>
<td>EDSEG 100 or EGT 101</td>
<td>2-3</td>
</tr>
<tr>
<td>CHEM 111†</td>
<td>1</td>
<td>PHYS 151 or 211†</td>
<td>3-4</td>
</tr>
<tr>
<td>PHYS 150 or 211†</td>
<td>3-4</td>
<td>General Education Course</td>
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<tr>
<td>General Education Course (GHW)</td>
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Total Credits 15.5-16.5

Second Year

<table>
<thead>
<tr>
<th>Fall</th>
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<th>Spring</th>
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<tr>
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<td>General Education Course</td>
<td>3</td>
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<tr>
<td>General Education Course</td>
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<td>ENGL 202C‡</td>
<td>3</td>
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<td>General Education Course</td>
<td>3</td>
<td>General Education Course (GHW)</td>
<td>1.5</td>
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<tr>
<td>CMPEN 271*</td>
<td>3</td>
<td>Electives</td>
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<tr>
<td>CMPEN 275*</td>
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</table>

16 | 16.5

Third Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EE 315*</td>
<td>5</td>
<td>EET 312*</td>
<td>4</td>
</tr>
<tr>
<td>CMPEH 472</td>
<td>4</td>
<td>EET 331†</td>
<td>4</td>
</tr>
<tr>
<td>MATH 230 (or MATH 250, MATH 408, MATH 430, MATH 444, MATH 446, STAT 200)</td>
<td>4</td>
<td>EE 310</td>
<td>4</td>
</tr>
<tr>
<td>SET Elective</td>
<td>3</td>
<td>EE 485</td>
<td>3</td>
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</tbody>
</table>

16 | 15

Fourth Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EET 419</td>
<td>1</td>
<td>EET 420W*</td>
<td>3</td>
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<tr>
<td>Electronics Elective</td>
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<td>GEET Technical Elective</td>
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<tr>
<td>GEET Technical Elective</td>
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<td>SET Elective</td>
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<tr>
<td>System Elective</td>
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<td>Elective</td>
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<tr>
<td>Elective</td>
<td>4</td>
<td>System Elective</td>
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</tbody>
</table>

17 | 17

Total Credits 128-131

* 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

Electives:

Electives are needed to meet minimum program requirements of 128 credits
EE 315 - Electrical Signals and Circuits with Lab, course only offered in Fall semester.
EET 331 Electronic Design, course only offered in Spring semester
EE 485 Energy Systems and Conversion, course only offered in Spring semester.

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

Integrative Studies courses are required for the General Education program. N is the suffix at the end of a course number used to designate an Inter-Domain course and Z is the suffix at the end of a course number used to designate a Linked course.

Program Notes:

- Suggested eight semester plan for students starting at the first-year or re-enrolling from science or engineering programs.
- Students enrolling from 2EET programs will generally follow the requirements for the associate degree during the first-year and second-year and then semesters 5 to 8.

NOTE: Following courses are offered only in semesters as listed below.

- Fall: EE 315, EET 311
- Spring: EET 331, EE 485, CMPET 401, CMPET 402, CMPET 403

Students must complete a 3-credit course in "United States Cultures (US)" and a 3-credit course in "International Cultures (IL)."

A.S. to B.S. General Option

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.

Fourth 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>EET 312*</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 111†</td>
<td>1</td>
<td>EET 331†</td>
<td>4</td>
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<tr>
<td>EET 311*</td>
<td>4</td>
<td>MATH 230 (or MATH 250, MATH 408, MATH 430, MATH 444, MATH 446, STAT 200)</td>
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<tr>
<td>ENGL 202C‡</td>
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<td>SET Elective</td>
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</table>
MATH 141† 4 General Education Course

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>General Education Course</td>
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<tr>
<td>General Education Course (GHW)</td>
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**Fourth Year**

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall Credits</th>
<th>Spring Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>16.5</td>
<td>18</td>
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</table>

**Electrical Engineering Technology Option**

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**First Year**

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall Credits</th>
<th>Spring Credits</th>
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<tbody>
<tr>
<td>Fall</td>
<td>15.5-16.5</td>
<td>16-17</td>
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**Second Year**

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall Credits</th>
<th>Spring Credits</th>
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</thead>
<tbody>
<tr>
<td>Fall</td>
<td>16</td>
<td>16</td>
</tr>
</tbody>
</table>

**Third Year**

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall Credits</th>
<th>Spring Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>16</td>
<td>16</td>
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</table>

**Fourth Year**

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall Credits</th>
<th>Spring Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>17</td>
<td>17</td>
</tr>
</tbody>
</table>

**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

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

Integrative Studies courses are required for the General Education program. N is the suffix at the end of a course number used to designate an Inter-Domain course and Z is the suffix at the end of a course number used to designate a Linked course.

**Program Notes:**

NOTE: Following courses are offered only in semester as listed below.

- Fall: EE 315, EET 311
- Spring: EET 331, EE 485, CMPET 401, CMPET 402, CMPET 403

Students must complete a 3-credit course in "United States Cultures (US)" and a 3-credit course in "International Cultures (IL)."
# 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).

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Integrative Studies courses are required for the General Education program. N is the suffix at the end of a course number used to designate an Inter-Domain course and Z is the suffix at the end of a course number used to designate a Linked course.

Program Notes:

The following courses are offered only in semesters as listed below.

- Fall: PHYS 150, CMPEN 271, CMPEN 275, EE 315, CMPEH 472, MATH 230, MATH 430 EET 311
- Spring: PHYS 151, MATH 250, EET 312, EET 331, EE 310, EE 485, CMPEN 431, CMPET 401, CMPET 402, CMPET 403

A.S. to B.S. Computer Engineering Technology Option

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>
<th>Summer</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CHEM 110†</td>
<td>3</td>
<td>CMPEN 431</td>
<td>3</td>
<td>General Education Courses</td>
<td></td>
</tr>
<tr>
<td>CHEM 111†</td>
<td>3</td>
<td>EET 312*</td>
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<td>MATH 230 (or MATH 250, MATH 408, MATH 430, MATH 444, MATH 446, STAT 200)</td>
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General Education Course (GHW) 1.5

Total Credits 16.5

Fourth Year

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Total Credits 17.5

Program Notes:

NOTE: The following courses are offered only in semester as listed below.

- Fall: EE 315, MATH 230, MATH 430 EET 311
- Spring: EET 312, EET 331, EE 485, CMPEN 431, CMPET 401, CMPET 402, CMPET 403

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.

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)

Contact

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