ELECTRICAL ENGINEERING, B.S. (CAPITAL)

Begin Campus: Any Penn State Campus
End Campus: Harrisburg

Program Description
The Bachelor of Science degree in Electrical Engineering provides a solid background in electrical engineering sciences. It also provides an opportunity for students to pursue interests in electrical and electronic circuits, including digital circuits and VLSI and its fabrication, microprocessors and their applications, electromagnetics, communications, control systems, and digital image processing and computer vision. Through participation in a senior capstone design, the curriculum emphasizes written as well as verbal communication and teamwork approach among the students to attain a common goal.

This program helps its graduates develop capabilities to analyze and design a variety of electrical and electronic systems found in many industrial and government settings as well as provide a foundation for further graduate studies. A strong background in the fundamentals is built through a broad base core in basic sciences (physics and chemistry) and mathematics as well as engineering sciences.

What is Electrical Engineering?
Electrical engineering is a broad discipline of study that includes circuit design, analog and digital electronics, electromagnetics, electro-optics, control systems, power systems, communications, and signal/image processing. Electrical engineers study and apply physics and mathematics to design electrical and electronic systems and their components for a wide range of applications such as mobile phones, wireless communications, consumer electronics, computers, computer networks, power generation, machine learning, robotics, nanoelectronics, nanophotonics, bioelectronics, autonomous transportation, wearable electronics, and metamaterials.

You Might Like This Program If...
• You enjoy problem-solving and math.
• You prefer to use analysis and the scientific method to understand things.
• You enjoy working on multidisciplinary teams on complex problems.
• You want to pursue a career in electrical engineering or its sub-branches.

Entrance to Major
Entry to the Electrical Engineering major requires that the student has completed: MATH 140, MATH 141, PHYS 211, CHEM 110, and CHEM 111.

A 2.00 or higher cumulative grade-point average is required.

Degree Requirements
For the Bachelor of Science degree in Electrical Engineering a minimum of 135 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>Requirements for the Major</td>
<td>114</td>
</tr>
</tbody>
</table>

24 of the 45 credits for General Education are included in the Requirements for the Major. This includes: 3 credits of GWS courses; 6 credits of GS 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. 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.

**Prescribed Courses**

<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>CMPEH 472</td>
<td>Microprocessors</td>
<td>4</td>
</tr>
<tr>
<td>EDSGN 100S</td>
<td>Introduction to Engineering Design</td>
<td>3</td>
</tr>
<tr>
<td>EE 210</td>
<td>Circuits and Devices</td>
<td>4</td>
</tr>
<tr>
<td>EE 311</td>
<td>Electronic Circuit Design II</td>
<td>3</td>
</tr>
<tr>
<td>EE 317</td>
<td>Circuits II and Data Acquisition</td>
<td>2</td>
</tr>
<tr>
<td>EE 330</td>
<td>Engineering Electromagnetics</td>
<td>4</td>
</tr>
<tr>
<td>EE 341</td>
<td>Semiconductor Device Principles</td>
<td>3</td>
</tr>
<tr>
<td>EE 405</td>
<td>Capstone Proposal Preparation</td>
<td>1</td>
</tr>
<tr>
<td>EE 461</td>
<td>Communications I</td>
<td>4</td>
</tr>
<tr>
<td>EE 481</td>
<td>Control Systems</td>
<td>4</td>
</tr>
<tr>
<td>EE 485</td>
<td>Energy Systems and Conversion</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 211</td>
<td>Statics</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 202C</td>
<td>Effective Writing: Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 320Y</td>
<td>Design for Global Society</td>
<td>3</td>
</tr>
<tr>
<td>MATH 220</td>
<td>Matrices</td>
<td>2</td>
</tr>
<tr>
<td>MATH 230</td>
<td>Calculus and Vector Analysis</td>
<td>4</td>
</tr>
<tr>
<td>MATH 250</td>
<td>Ordinary Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 213</td>
<td>General Physics: Fluids and Thermal Physics</td>
<td>2</td>
</tr>
<tr>
<td>PHYS 214</td>
<td>General Physics: Wave Motion and Quantum Physics</td>
<td>2</td>
</tr>
<tr>
<td>SSET 295</td>
<td>Internship</td>
<td>1</td>
</tr>
</tbody>
</table>

**Prescribed Courses: Require a grade of C or better**

**Additional Courses**
Select one of the following:

- **ECON 14** Principles of Economics
- **ECON 102** Introductory Microeconomic Analysis and Policy
- **ECON 104** Introductory Macroeconomic Analysis and Policy
- **CMPSC 121** Introduction to Programming Techniques
- **CMPSC 201** Programming for Engineers with C++
- **CMPSC 202**

Select one of the following:

- **STAT 200** Elementary Statistics (requires a grade of C or better)
- **STAT 401** Experimental Methods
- **STAT 414** Introduction to Probability Theory
- **STAT 418** Introduction to Probability and Stochastic Processes for Engineering

**Supporting Courses and Related Areas**
Select 11-12 credits in consultation with an academic adviser and in keeping with the student’s interests.

**Integrated B.S./M.S. Program in Electrical Engineering**
The Electrical Engineering program offers a limited number of academically superior Bachelor of Science candidates the opportunity to enroll in an integrated, continuous program of study leading to both the Bachelor of Science and the Master of Science in Electrical Engineering. The ability to coordinate as well as concurrently pursue the two degree programs enables students to earn the two degrees in five years.

Students in the IUG program must satisfy the degree requirements for both Bachelor of Science and Master of Science degrees. However, the total course load is reduced due to the maximum of 12 credits that can count towards both degrees. A minimum of 7 credits proposed to count for both degrees must be at the 500 level. Thesis credits may not be double counted. The fourth year of the IUG program differs from the fourth year of the Bachelor of Science program due to the courses that count toward the Master of Science Degree requirements. Student performance will be monitored on an on-going basis. In addition, a formal evaluation of student’s academic performance will be conducted at the end of the first semester of the senior year for a typical student in the program. Students who have not maintained a 3.4 GPA in their Math and Electrical Engineering courses will be put on probationary status with respect to the IUG program. Their ability to continue in the IUG program will be based on academic performance in the last semester of their senior year. As part of the review in the senior year, students will be advised about the thesis requirement in the graduate program.
Students have the choice of receiving the B.S. degree at the end of the fourth year or waiting until the end of the fifth year to receive both degrees. Students who elect to receive the B.S. degree at the end of the fourth year will pay graduate tuition for courses taken in the fifth year; students opting to receive both degrees at the end of the fifth year will pay undergraduate tuition for all five years. If for any reason a student admitted to the IUG program is unable to complete the requirements for the Master of Science degree, the student will be permitted to receive the Bachelor of Science degree assuming all the undergraduate degree requirements have been satisfactorily completed. If students successfully complete courses listed in the recommended schedule, they will satisfy the requirements for the Bachelor of Science degree by the end of their fourth year.

Admission Requirements
To initiate the application process, students must submit an Integrated Undergraduate-Graduate (IUG) Degree in Electrical Engineering Application Form, an official transcript, three letters of professional recommendation from individuals who can evaluate the applicant’s potential, and a personal statement of technical interest and goals. A faculty adviser will help undergraduate candidates determine a sequence of courses that will prepare them for acceptance into the Integrated Undergraduate-Graduate (IUG) degree program. In order to apply for the IUG program, students must have completed a minimum of 81 credits; therefore a typical student would apply after completing the fifth semester and before the end of the sixth semester. For consideration for acceptance into the program, students must have cumulative grade point average (GPA) of 3.4 or better and collective GPA of 3.4 or better in the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMPEN 271</td>
<td>Introduction to Digital Systems</td>
<td>3</td>
</tr>
<tr>
<td>CMPEN 275</td>
<td>Digital Design Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>EE 315</td>
<td>Electrical Signals and Circuits with Lab (or equivalent)</td>
<td>5</td>
</tr>
<tr>
<td>EE 341</td>
<td>Semiconductor Device Principles</td>
<td>3</td>
</tr>
<tr>
<td>CMPEH 472</td>
<td>Microprocessors</td>
<td>4</td>
</tr>
</tbody>
</table>

All designated MATH, PHYS and CMPSC courses

Applications will be evaluated based on students’ overall academic performance, in addition to the above requirements. In all cases, admission to the program will be at the discretion of the Graduate Admissions Committee of the Electrical Engineering program.

Degree Requirements
Students in the IUG program must satisfy the degree requirements for both Bachelor of Science and Master of Science degrees. The total course load is reduced due to the maximum of 12 credits that can count towards both degrees. The minimum of 7 credits double-counted must be at the 500 level. Thesis credits may not be double counted.

B.S. Degree Portion Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Education</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td>Electives</td>
<td>0-4</td>
</tr>
<tr>
<td></td>
<td>Requirements for the Major</td>
<td>110-113</td>
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<tr>
<td></td>
<td>Total B.S. Requirements: 134 credits</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(12 double-counted with the M.S. Requirements)</td>
<td></td>
</tr>
</tbody>
</table>

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

(21 of these are included in the REQUIREMENTS FOR MAJOR)

Requirements for the Major

Prescribed Courses
As listed by the B.S. E ENG bulletin with the following change CMPSC 8436 can be replaced by an EEO 400 or System 400 Elective

Additional Courses
Select one of the following:
- ECON 102 Total Microeconomic Analysis and Policy
- ECON 104 Total Macroeconomic Analysis and Policy
- ECON 14 Principles of Economics

Select one of the following:
- CMPSC 201 Programming for Engineers with C++
- CMPSC 121 Introduction to Programming Techniques
- CMPSC 202

Select one of the following:
- MATH 444
- MATH 446
- STAT 200 Elementary Statistics

Select 5-7 credits of the following:
- EE 315 Electrical Signals and Circuits with Lab
- EE 210 Circuits and Devices
- EE 314 Signals and Circuits II

Supporting Courses and Related Areas
- EMCH 524A Mathematical Methods in Engineering 3
Select an option:

### Electronics-Electromagnetics-Optics
- One EEO 400-level course
- One EEO 500-level course

### Systems Option
- One System 400-level course
- One System 500-level course

**M.S. Degree Portion**

Total M.S. Requirements: 31 credits

(12 double-counted with B.S. Requirements)

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**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)

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**Harrisburg**

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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).

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**Ending 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.

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### First Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 110&lt;sup&gt;#t&lt;/sup&gt;</td>
<td>3</td>
<td>CAS 100&lt;sup&gt;‡&lt;/sup&gt;</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 111&lt;sup&gt;#t&lt;/sup&gt;</td>
<td>1</td>
<td>EDSGN 100</td>
<td>3</td>
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<tr>
<td>ENGL 15 or 30&lt;sup&gt;‡&lt;/sup&gt;</td>
<td>3</td>
<td>MATH 141&lt;sup&gt;x#t&lt;/sup&gt;</td>
<td>4</td>
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<td>MATH 140&lt;sup&gt;x#t&lt;/sup&gt;</td>
<td>4</td>
<td>PHYS 211&lt;sup&gt;x#t&lt;/sup&gt;</td>
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<tr>
<td>General Education Course</td>
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<td>General Education Course</td>
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<td>General Education Course (GHW)</td>
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<td>General Education Course (GHW)</td>
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### Second Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMPEN 271&lt;sup&gt;‡&lt;/sup&gt;</td>
<td>3</td>
<td>CMPSC 121, 201, or 202&lt;sup&gt;2&lt;/sup&gt;</td>
<td>3</td>
</tr>
<tr>
<td>CMPEN 275&lt;sup&gt;‡&lt;/sup&gt;</td>
<td>1</td>
<td>ECON 102, 104, or 14&lt;sup&gt;†&lt;/sup&gt;</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 211</td>
<td>3</td>
<td>ENGL 202C&lt;sup&gt;‡†&lt;/sup&gt;</td>
<td>3</td>
</tr>
<tr>
<td>MATH 220&lt;sup&gt;†&lt;/sup&gt;</td>
<td>2</td>
<td>MATH 250</td>
<td>3</td>
</tr>
<tr>
<td>MATH 230&lt;sup&gt;†&lt;/sup&gt;</td>
<td>4</td>
<td>PHYS 213&lt;sup&gt;†&lt;/sup&gt;</td>
<td>2</td>
</tr>
<tr>
<td>PHYS 212&lt;sup&gt;x†&lt;/sup&gt;</td>
<td>4</td>
<td>PHYS 214&lt;sup&gt;†&lt;/sup&gt;</td>
<td>2</td>
</tr>
<tr>
<td>SSET 295</td>
<td>1</td>
<td></td>
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</tr>
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<td>Total Credits 17</td>
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<td>17</td>
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</table>

### Third Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EE 210&lt;sup&gt;‡&lt;/sup&gt;</td>
<td>4</td>
<td>EE 310&lt;sup&gt;‡&lt;/sup&gt;</td>
<td>4</td>
</tr>
<tr>
<td>EE 341</td>
<td>3</td>
<td>EE 317&lt;sup&gt;‡&lt;/sup&gt;</td>
<td>2</td>
</tr>
<tr>
<td>CMPEH 472</td>
<td>4</td>
<td>EE 330</td>
<td>3</td>
</tr>
<tr>
<td>STAT 200, 401, 414, or 418&lt;sup&gt;‡&lt;/sup&gt;</td>
<td>3-4</td>
<td>EE 352&lt;sup&gt;‡&lt;/sup&gt;</td>
<td>4</td>
</tr>
<tr>
<td>SSET 295 (if not previously done)</td>
<td>1</td>
<td>EE 485</td>
<td>3</td>
</tr>
<tr>
<td>General Education Course</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Credits 17-19</td>
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<td>17</td>
<td></td>
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</table>

### Fourth Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EE 311</td>
<td>3</td>
<td>EE 406</td>
<td>3</td>
</tr>
<tr>
<td>EE 405</td>
<td>1</td>
<td>Technical Elective II</td>
<td>3</td>
</tr>
<tr>
<td>EE 461</td>
<td>4</td>
<td>Technical Elective III</td>
<td>3</td>
</tr>
<tr>
<td>EE 481</td>
<td>4</td>
<td>Technical Elective IV</td>
<td>2-3</td>
</tr>
<tr>
<td>Technical Elective I</td>
<td>3</td>
<td>ENGR 320Y&lt;sup&gt;†&lt;/sup&gt;</td>
<td>3</td>
</tr>
<tr>
<td>General Education Course</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Credits 18</td>
<td></td>
<td>14-15</td>
<td></td>
</tr>
</tbody>
</table>

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* 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
<sup>1</sup> CMPSC 121 Introduction to Programming Techniques, recommended.
<sup>2</sup> STAT 200 Elementary Statistics requires a grade of C or better and satisfies both major and General Education requirements.
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:

Following courses are offered only in semesters as listed below:

Fall: EE 341, EE 311, EE 461

Spring: EE 330, EE 485

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

Career Paths

According to the U.S. Bureau of Labor Statistics, employment of electrical engineers is projected to grow 7 percent from 2016 to 2026, about as fast as the average for all occupations. The rapid pace of technological innovation will likely drive demand for electrical and electronics engineers in research and development, an area in which engineering expertise will be needed to design distribution systems related to new technologies. These engineers will play key roles in new developments with solar arrays, semiconductors, and communications technologies.

Careers

Graduates of the program have gained positions in a number of specialty areas including digital circuits and VSLI and its fabrication, microprocessors and their applications, electromagnetics, communications, control systems, digital image processing, and computer engineering. Career opportunities for these specialties are available in a multitude of industries including computers, automobile, power, communications, manufacturing, pure and applied research, and biomedical and environmental fields.

Opportunities for Graduate Studies

The Bachelor of Science degree in Electrical Engineering is designed to provide a solid background for students who plan to pursue graduate studies, including Penn State's Master of Engineering and Master of Science in Electrical Engineering programs.

Accreditation

This program is accredited by the Engineering Accreditation Commission of ABET.

More information about ABET accreditation (http://www.abet.org)

Contact

Harrisburg

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Olmsted Building W256
Middletown, PA 17057
717-948-6093
dmm79@psu.edu
http://harrisburg.psu.edu/science-engineering-technology/ee-eet/bachelor-science-electrical-engineering