ELECTRICAL AND COMPUTER ENGINEERING TECHNOLOGY, B.S.

Begin Campus: Any Penn State Campus
End Campus: Erie

Program Description
This major prepares graduates for careers in such varied areas as electronics, microprocessors, computer hardware and software, communications, instrumentation and control, and power. The major consists of two options, one in Electrical Engineering Technology, the other in Computer Engineering Technology. Both options provide education in applied mathematics, physics, electrical and electronic circuit analysis and design, microprocessors, instrumentation and quality control. The Electrical Engineering Technology option provides specialty education in control theory, communication systems, and power systems. The Computer Engineering Technology option provides specialty education in software development, embedded computer systems, and networking. Both options in the major culminate with a capstone design project involving an actual design or manufacturing problem, often sponsored by industry. Graduates may qualify as engineering technologists working side-by-side with engineers, scientists, and other skilled workers in these capacities. Occupations include electrical and electronic systems design, microprocessor applications, instrumentation and control, computer programming, electrical testing, plant engineering, quality control, management, and technical sales and service.

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

What is Electrical and Computer Engineering Technology?
The study of electrical and computer engineering technology (ECET) offers a strong education in electrical and electronic systems design, computer programming, microprocessor applications, automation, programmable logic controllers, instrumentation and control, and electrical testing. ECET is different from traditional theory-based electrical engineering degree programs, and also unlike skills-based programs that are focused on repair and maintenance. The applied nature of ECET offers not only working knowledge of the foundational theories of engineering, but also the hands-on laboratory focus that enables students to analyze, design, and implement the many uses of electrical and computer systems. The degree program is industry focused and emphasizes solving real-world problems in the workplace.

You Might Like This Program If...
- You’re fascinated by what’s inside electrical and computer systems.
- You’re interested in knowing how electrical and computer systems work, how to design new systems, and how to test existing systems.
- You’re looking for a hands-on applied engineering discipline.
- You’re interested in both engineering and computing—and in the application of these two disciplines in solving real-world problems.

Entrance to Major
To be eligible for entrance to the Electrical and Computer Engineering Technology major, a student must have:
1. attained at least a 2.00 cumulative grade-point average;
2. completed MATH 81 or MATH 26, and MATH 82 or MATH 22, and MATH 83 or MATH 140, and PHYS 250, and earned a grade of C or better in each of these courses.

Degree Requirements
For the Bachelor of Science degree in Electrical and Computer 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>Requirements for the Major</td>
<td>107</td>
</tr>
</tbody>
</table>

24 of the 45 credits for General Education are included in the Requirements for the Major. This includes: 9 credits of GN courses; 6 credits of GQ courses; 6 credits of GWS courses; and 3 credits of GS courses.

Per Senate Policy 83.80.5, the college dean or campus chancellor and program faculty may require up to 24 credits of coursework in the major to be taken at the location or in the college or program where the degree is earned.

Requirements for the Major
Each student must earn at least a grade of C in each 300- and 400-level course in the major field.

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).

Common Requirements for the Major (All Options)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS 100</td>
<td>Effective Speech</td>
<td>3</td>
</tr>
<tr>
<td>CMPET 5</td>
<td>Engineering Methods in Engineering Technology</td>
<td>1</td>
</tr>
<tr>
<td>CMPET 120</td>
<td>Digital Electronics Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CMPET 211</td>
<td>Embedded Processors and DSP</td>
<td>3</td>
</tr>
<tr>
<td>EET 101</td>
<td>Electrical Circuits I</td>
<td>3</td>
</tr>
<tr>
<td>EET 109</td>
<td>Electrical Circuits Laboratory I</td>
<td>1</td>
</tr>
<tr>
<td>EET 212W</td>
<td>Op Amp and Integrated Circuit Electronics</td>
<td>4</td>
</tr>
<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 Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>EET 280</td>
<td>System Integration Project</td>
<td>1</td>
</tr>
<tr>
<td>ENGL 202C</td>
<td>Effective Writing: Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>MATH 210</td>
<td>Calculus with Engineering Technology Applications</td>
<td>3</td>
</tr>
<tr>
<td>MATH 211</td>
<td>Intermediate Calculus and Differential Equations with Applications</td>
<td>3</td>
</tr>
</tbody>
</table>

Prescribed Courses: Require a grade of C or better

CMPET 117 Digital Electronics 3
EET 114 Electrical Circuits II 4
EET 118 Electrical Circuits Laboratory 1
EET 315 Linear and Discrete System Analysis 3
EET 341 Measurements and Instrumentation 3
EET 480 Electrical and Computer Systems Senior Seminar 1
EET 490W Electrical/Computer Senior Design Project 3
MGMT 409 Project Management for Engineers 3

Additional Courses

ECON 102 Introductory Microeconomic Analysis and Policy 3
or ECON 104 Introductory Macroeconomic Analysis and Policy
EET 2 or ET 2 Introduction to Engineering Technology 1
EGT 101 and
EGT 102, or EGT 119 Introduction to CAD for Electrical and Computer Engineering 2

Select one of the following sequences: 10

Sequence A

CHEM 110 Chemical Principles I
CHEM 111 Experimental Chemistry I
PHYS 250 Introductory Physics I (requires a grade of C or better)

2 credits of science

Sequence B

PHYS 150 Technical Physics I (requires a grade of C or better)
PHYS 151 Technical Physics II (requires a grade of C or better)

4 credits of science

Select 3 credits of the following: 3

EET 275 Introduction to Programmable Logic Controls
EET 220 and 1 credit in 200 level or higher of technical electives from school-approved list

Additional Courses: Require a grade of C or better

EET 450 or QC 450 Quality Control and Quality Improvement 3
MATH 22 College Algebra II and Analytic Geometry 3
or MATH 82 Technical Mathematics II
MATH 26 Plane Trigonometry 3
or MATH 81 Technical Mathematics I
MATH 83 Technical Calculus 4
or MATH 140 Calculus With Analytic Geometry I

Requirements for the Option

Requirements for the Option: Require a grade of C or better

Select an option 18

Requirements for the Option

Electrical Engineering Technology Option (18 credits)

Code Title Credits
Prescribed Courses
Prescribed Courses: Require a grade of C or better
EET 330 Wireless Communications Systems 3

Supporting Courses and Related Areas

Supporting Courses and Related Areas: Require a grade of C or better
Select 9 credits of technical electives at the 300 or 400 level from school-approved list (students may apply 6 credits of ROTC) 9

Computer Engineering Technology Option (18 credits)

Code Title Credits
Prescribed Courses
Prescribed Courses: Require a grade of C or better
CMPET 333 Computer Networking 3
CMPET 456 Advanced Microprocessors, High Level Interfacing 3
CMPET 457 Software Engineering 3

Supporting Courses and Related Areas

Supporting Courses and Related Areas: Require a grade of C or better
Select 9 credits of technical electives at the 300 or 400 level from school-approved list (students may apply 6 credits of ROTC) 9

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 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.)

• 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 (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.

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

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

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

Suggested Academic Plan
The suggested academic plan(s) listed on this page are the plan(s) that are in effect during the 2022-23 academic year. To access previous years' suggested academic plans, please visit the archive (https://bulletins.psu.edu/undergraduate/archive/) to view the appropriate Undergraduate Bulletin edition (Note: the archive only contains suggested academic plans beginning with the 2018-19 edition of the Undergraduate Bulletin).

Computer Engineering Technology Option
(CMPEET): Electrical and Computer Engineering Technology, B.S. at Erie 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.

Electrical and Computer Engineering Technology, B.S.
### Electrical and Computer Engineering Technology, B.S.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EET 480*</td>
<td>1 Technical Elective (300, 400-level)†</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 409*</td>
<td>3 General Education Course</td>
<td>3</td>
</tr>
<tr>
<td>Technical Elective (300, 400-level)*</td>
<td>3 General Education Course (GN)</td>
<td>2</td>
</tr>
<tr>
<td>Technical Elective (300, 400-level)*</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits 128**

* 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.

1 Course will satisfy First-Year Seminar requirement.
2 Course will satisfy Writing Across the Curriculum requirement.

### Program Notes:

- Only students who have gone through the entrance to major process and have been accepted into this major may register for junior and senior-level EET and CMPET courses.
- Permissible Math substitutions: MATH 26 instead of MATH 81, MATH 22 instead of MATH 82, MATH 140 instead of MATH 83.

### Advising Notes:

If ENGL 15 is full, schedule an S/H/A, 2nd semester ENGL15, 3rd semester CAS 100, and 4th semester PHYS 250.

### School-Approved Electives for Electrical and Computer Engineering Technology

**Electrical Engineering Technology Options:**

- CMPET 333 (3:2:2) – Computer Networking
- CMPET 456 (3:2:2) – Advance Microprocessors, High Level Interfacing
- CMPET 457 (3:2:2) – Software Engineering

**Computer Engineering Technology Options:**

- EET 330 (3:2:2) – Wireless Communication Systems
- EET 416 (3:2:2) – Fluid and Thermal Design in Electrical Systems
- EET 440 (3:2:2) – Applied Feedback Controls

**Electrical or Computer Engineering Technology Options:**

- EET 395* (1-3) – Internship
- EET 397* (1-3) – Special Topics
- EET 461 (3:2:2) – Power Electronics
- EET 475 (3:2:2) – Intermediate Programmable Logic Controllers
- EET 495* (1-3) – Internship
- EET 496* (1-3) – Independent Studies
- EET 497* (1-3) – Special Topics

*Requires prior approval from the Electrical and Computer Engineering Technology Department Chair

Upon approval by the department chair, students may be allowed to select technical elective courses from other disciplines.
### Electrical Engineering Technology Option (EET): Electrical and Computer Engineering Technology, B.S. at Erie 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>Fall Credits</th>
<th>Spring Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EET 2†</td>
<td>1 CMPET 5</td>
</tr>
<tr>
<td>EET 101</td>
<td>3 CMPET 117*</td>
</tr>
<tr>
<td>EET 109</td>
<td>1 CMPET 120</td>
</tr>
<tr>
<td>ENGL 15 or 30H†</td>
<td>3 EET 114*</td>
</tr>
<tr>
<td>MATH 81†‡#†</td>
<td>3 EET 118</td>
</tr>
<tr>
<td>General Education Course</td>
<td>3 MATH 82†‡#†</td>
</tr>
<tr>
<td>General Education Course (GHW)</td>
<td>1.5 PHYS 250†‡#†</td>
</tr>
</tbody>
</table>

**15.5**

#### Second Year

<table>
<thead>
<tr>
<th>Fall Credits</th>
<th>Spring Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMPET 211</td>
<td>3 CAS 100†‡</td>
</tr>
<tr>
<td>EET 212Wª</td>
<td>4 CHEM 110†</td>
</tr>
<tr>
<td>EET 214</td>
<td>3 CHEM 111†</td>
</tr>
<tr>
<td>EET 215</td>
<td>1 EET 275</td>
</tr>
<tr>
<td>MATH 83†‡</td>
<td>4 EET 280</td>
</tr>
<tr>
<td>General Education Course</td>
<td>3 EET 119</td>
</tr>
<tr>
<td>General Education Course (GHW)</td>
<td>3 MATH 210</td>
</tr>
</tbody>
</table>

**18**

#### Third Year

<table>
<thead>
<tr>
<th>Fall Credits</th>
<th>Spring Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMPET 301*</td>
<td>3 CMPET 355*</td>
</tr>
<tr>
<td>EET 341*</td>
<td>3 EET 315*</td>
</tr>
<tr>
<td>ENGL 202C††</td>
<td>3 EET 330</td>
</tr>
<tr>
<td>MATH 211</td>
<td>3 ECON 102 or 104†</td>
</tr>
<tr>
<td>General Education Course</td>
<td>3 General Education Course</td>
</tr>
<tr>
<td>General Education Course (GHW)</td>
<td>1.5</td>
</tr>
</tbody>
</table>

**15**

#### Fourth Year

<table>
<thead>
<tr>
<th>Fall Credits</th>
<th>Spring Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EET 416*</td>
<td>3 EET 490Wª</td>
</tr>
<tr>
<td>EET 440*</td>
<td>3 QC 450*</td>
</tr>
<tr>
<td>EET 480*</td>
<td>1 Technical Elective (300, 400-level)*</td>
</tr>
<tr>
<td>MGMT 409*</td>
<td>3 General Education Course</td>
</tr>
<tr>
<td>Technical Elective (300, 400-level)*</td>
<td>3 General Education Course (GN)</td>
</tr>
</tbody>
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*Requires prior approval from the Electrical and Computer Engineering Technology Department Chair
Upon approval by the department chair, students may be allowed to select technical elective courses from other disciplines.

Career Paths
Within the B.S. in Electrical and Computer Engineering Technology there are two options for emphasis study: Electrical Engineering Technology and Computer Engineering Technology. You’ll choose the option that best fits your career aspirations. Penn State Behrend has a comprehensive support system to help you identify and achieve your goals for college and beyond. Meet with your academic adviser often and take advantage of the services offered by the Academic and Career Planning Center beginning in your first semester.

Careers
Because of the breadth of experience with both electrical and computer systems, graduates can begin their careers in such areas as electrical and electronic systems design, embedded systems and microcontroller/software applications, automation and process control, field service and application engineering, system integration and testing, quality control, and technical sales and service. Employers of recent Behrend B.S. in Electrical and Computer Engineering Technology graduates include Rovisys, Process and Data Automation, SKF Aeroengine, GE, Northrop Grumman, Lockheed Martin, Eriez Magnetics, First Energy, FMC Technologies, Lutron, and Westinghouse.

MORE INFORMATION ABOUT POTENTIAL CAREER OPTIONS FOR GRADUATES OF THE ELECTRICAL AND COMPUTER ENGINEERING TECHNOLOGY PROGRAM (http://behrend.psu.edu/school-of-engineering/academic-programs/electrical-computer-engineering-technology/)

Opportunities for Graduate Studies
Master’s degree programs in engineering or engineering technology are an option for graduates of the B.S. in Electrical and Computer Engineering Technology. Advanced degree programs delve more deeply into areas of specialization such as embedded systems, automation and process control, software development, networking, and power systems. Or, you can use a master’s degree to learn management skills; Penn State Behrend offers a Master of Manufacturing Management (M.M.M) degree program for aspiring organizational leaders.

MORE INFORMATION ABOUT OPPORTUNITIES FOR GRADUATE STUDIES (http://behrend.psu.edu/school-of-engineering/academic-programs/master-of-manufacturing-management/)

Professional Resources
• ABET (http://www.abet.org/)
• Institution of Electrical and Electronics Engineers (https://www.ieee.org/)
• IEEE Computer Society (https://www.computer.org/)
• Association for Computing Machinery (https://www.acm.org/)
• Institution of Engineering and Technology (http://www.theiet.org/)
• Society of Women Engineers (http://societyofwomenengineers.swe.org/)
• National Society of Black Engineers (http://www.nsbe.org/home.aspx)

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

ABET is a nonprofit, non-governmental accrediting agency for programs in applied and natural science, computing, engineering and engineering technology and recognized as an accreditor by the Council for Higher Education Accreditation. ABET accreditation is voluntary and provides assurance that a college or university program meets the quality standards of the profession for which that program prepares graduates. The School of Engineering at Penn State Behrend consistently places in the Top 50 in U.S. News & World Report’s rankings of the nation’s undergraduate engineering programs.

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

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://psu.edu/state-licensure-disclosures/) interactive map.

Contact
Erie
SCHOOL OF ENGINEERING
242 Jack Burke Research and Economic Development Center
5101 Jordan Road
Erie, PA 16563
814-898-6153
engineering@psu.edu

http://behrend.psu.edu/school-of-engineering (http://behrend.psu.edu/school-of-engineering/)