

Bachelor of Science in Electrical Engineering Technology

The Bachelor of Science graduate with a major in Electrical Engineering Technology (E E T) 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.



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PennState
Harrisburg

**School of Science,
Engineering, and Technology**



**Bachelor of Science in
Electrical Engineering
Technology**

Curriculum

The E E T major aims to 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; and promising job placement.

This program is accredited by the Engineering Technology Accreditation Commission of ABET, www.abet.org.



Courses

For a B.S. degree in Electrical Engineering Technology, a minimum of 128 credits is required.

In addition to [General Education requirements](#) (45 credits), this major requires the following:

PRESCRIBED COURSES (27 credits)

CHEM 110 GN(3), CHEM 111 GN(1), MATH 140 GQ(4), MATH 141 GQ(4) (Sem: 1-6)
EET 312(4), EET 331(4), ENGL 202C GWS(3) (Sem: 5-6)
EET 419(1), EET 420W(3) (Sem: 7-8)

ADDITIONAL COURSES (32-43 credits)

Select 2*-3 credits from: EG T 101(1) and EG T 102(1) or EDSGN 100(3) (Sem: 1-2)

Select 3 credits from: CMPSC 101 GQ(3), CMPSC 121 GQ(3) or CMPSC 201 GQ(3) (Sem: 1-5)

Select 6*-8 credits from sequence a or b:

a.) PHYS 150 GN(3) and PHYS 151 GN(3) (Sem: 3-4)

b.) PHYS 211 GN(4) and PHYS 212 GN(4) (Sem: 1-4)

Select 3-4 credits from MATH 230(4), MATH 250(3), MATH 336(3), MATH 408(3), MATH 411(3), MATH 444(3), MATH 446(3), or STAT 200 GQ(4) (Sem: 5-6)

Select 5-8* credits from course sequence a, b, or c:

a.) EET 114(4) and EET 311(4) (Sem: 1-6)

b.) E E 210(4) and E E 314(3) (Sem: 3-6)

c.) E E 315(5) (Sem: 5-6)

Select 4* credits from: CMPEN 271(3) and CMPEN 275(1) or CMPET 117(3) and CMPET 120(1) (Sem: 1-4)

Select 3*-4 credits from: CMPEH 472(4) or CMPET 211(3) (Sem: 3-6)

Select 3*-4 credits from: EET 205(1) and EET 210(2) or E E 310(4) (Sem: 3-6)

Select 3-5* credits from: EET 213W(5) or E E 485(3) (Sem: 3-6)

*Courses required by PSU 2 EET programs

REQUIREMENTS FOR THE OPTION : 26 credits

GENERAL ELECTRICAL ENGINEERING TECHNOLOGY OPTION : (26 credits)

ADDITIONAL COURSES (26 credits)

System Elective: Select 8 credits of technical electives from: EET 408(4), EET 409(4), EET 433(4) (Sem: 7-8)

Electronics Elective: Select 4 credits from: EET 402(4), EET 423(4), EET 431(4) (Sem: 7-8)

GEET Technical Electives: Select 8 credits of GEET technical electives from: CMPEH 449(3), CMPET 401(3), CMPET 402(1), CMPEN 431(3), E E 418(3), E E 453(3), E E 458(3), EET 401(4), CMPET 403(3), EET 410(4), CMPET 412(4), EET 413(4), EET 414(4), EET 456(4), EET 478(4), ET 496(1) (Sem: 7-8)

Select 6 credits from any previous elective list plus CMPSC 452(3), E MCH 211(3), E MCH 212(3), M E 201(3) (Sem: 6-8)

[1] A student enrolled in this major must receive a grade of C or better, as specified in Senate Policy 82-44.

Undergraduate Admissions Requirements

Minimum high school course requirements for admission to baccalaureate (four-year) degree programs are listed below. Keep in mind that specific programs may have additional requirements or recommendations.

English

Four units, including one unit each in composition and literature, are required.

Social Studies/Art/Humanities

Three units in any combination of social studies, arts, and humanities are required.

World Language

Two units in a single world language other than English are required. However, a student may be admitted with fewer than two units in a world language other than English, but must correct this deficiency by the time s/he earns 60 credits or graduates from Penn State, whichever comes first. This deficiency may be corrected by passing one three- or four-credit college level world language course or by demonstrating proficiency equivalent to two units of high school world language study.

Either a third unit in the same language or an additional unit in a second world language other than English is recommended.

Science

Three units of science are required. Preparation in chemistry and physics is recommended but not required for our Science and Engineering/Engineering Technology programs

Math

Three units of mathematics are required (four are recommended), selected from any combination of algebra, geometry, and trigonometry. Some programs have additional mathematics requirements. Our Business, Engineering/Engineering Technology, and Science programs require one-half unit of trigonometry or higher level math within the required three units

Penn State requires proof of graduation or a GED for admission to four-year degree programs.

*In most high school curricula, one unit = one year.

Visit Undergraduate Admissions: Admissions Requirements for more information (<http://goo.gl/eVGAMB>)