

# Electrical Engineering Technology, BSET

The Bachelor of Science in Electrical Engineering Technology degree offers students an opportunity to acquire the knowledge, skills, and analytical tools and techniques to become technologists supporting the design, implementation, integration, analysis, testing, and support of electronic circuits and electrical systems that are critical to the achievement of enterprise, project, research, and business goals.

This focused bachelor's degree includes courses in mathematics, physics, electric circuit theory, analog and digital circuits and systems, power circuits and systems, and electric circuit and system analysis. The program offers the course work needed to prepare students for examinations leading to professional certifications, such as the NCEES PE exam, as well as continuing academic education, such as graduate school programs.

The Bachelor of Science in Engineering Technology in Electrical Engineering Technology is accredited by the Engineering Technology Accreditation Commission of ABET, Inc.

## Program Requirements

Complete all courses listed below unless otherwise indicated.

## University-Wide Requirement

Minimum 120 total semester hours required

Minimum 2.000 GPA required

Students must earn a minimum of 60 Northeastern University semester hours in order to receive a bachelor's degree.

*Note:* Individual program requirements may exceed the above minima.

## NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (<http://catalog.northeastern.edu/professional-studies/university-academics/nupath>).

## Foundation Courses

50 semester hours required

Code	Title	Hours
<b>English</b>		
Complete one of the following:		4
ENG 1105 and ENG 1106	College Writing 1 and Lab for ENG 1105	
ENG 1103 and ENG 1104	College Writing 1 for Nonnative Speakers and Lab for ENG 1103	
Complete the following course with corresponding lab:		
ENG 3105 and ENG 3106	Writing for the Professions: Science and Engineering and Lab for ENG 3105	4
<b>Mathematics</b>		
MTH 2100	Calculus 1	3
MTH 2105	Calculus 2	3
MTH 2110	Calculus 3	3
MTH 3200	Differential Equations	3
MTH 3300	Applied Probability and Statistics	3

## Physics

PHY 1200 and PHY 1201	Physics 1 and Lab for PHY 1200	4
PHY 2200 and PHY 2201	Physics 2 and Lab for PHY 2200	4

## Chemistry or Biology

Choose one of the following sequences:		4
CHM 1100 and CHM 1101	General Chemistry 1 and Lab for CHM 1100	
BIO 1100 and BIO 1101	Principles of Biology 1 and Lab for BIO 1100	

## Technology

GET 1100	Introduction to Engineering and Technology	3
GET 1150	Foundations of Engineering Graphics and Design	3
GET 2100	Computer Engineering Programming and Analysis	3
GET 2200	Engineering Economy	3

## Philosophy

PHL 2140	Ethical Issues in Science and Engineering	3
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## Major Courses

39 semester hours required

Code	Title	Hours
<b>Circuits</b>		
EET 2000 and EET 2001	Circuits 1 and Lab for EET 2000	5
EET 2100 and EET 2101	Circuits 2 and Lab for EET 2100	5
EET 3100 and EET 3101	Electronics 1 and Lab for EET 3100	5
EET 3200 and EET 3201	Electronics 2 and Lab for EET 3200	5
EET 3300 and EET 3301	Digital Logic and Lab for EET 3300	5
EET 3400 and EET 3401	Digital Electronics and Lab for EET 3400	5
<b>Systems</b>		
CET 2100	Essentials of Computer Organization	3
EET 3750	Linear Systems	3
EET 3800	Control Systems	3

## Technical Electives

Complete 9 semester hours in technical electives at the 3000 or 4000 level from the following subject areas:

Code	Title	Hours
CET, EET, ITC, MET		9
At least one elective must be in EET.		

## Capstone Experiences

6 semester hours required

Code	Title	Hours
GET 4840	Engineering Technology Capstone Project Preparation and Proposal	2
GET 4850	Engineering Technology Capstone Project Execution	4

## Electives

Complete a minimum of 23 semester hours to reach 127 semester hours.

### Plan of Study

Term 1	Hours
Complete one of the following:	4
ENG 1105 and ENG 1106	
ENG 1103 and ENG 1104	
GET 1100	3
MTH 2100	3
GET 1150	3
Open elective	3
	16
Term 2	Hours
MTH 2105	3
GET 2100	3
PHY 1200 and PHY 1201	4
GET 2200	3
Choose one of the following:	4
BIO 1100 and BIO 1101	
CHM 1100 and CHM 1101	
	17
Term 3	Hours
ENG 1107 and ENG 1108	4
EET 2000 and EET 2001	5
PHY 2200 and PHY 2201	4
MTH 2110	3
	16
Term 4	Hours
MTH 3200	3
EET 2100 and EET 2101	5
ENG 3105 and ENG 3106	4
Open elective	3
	15
Term 5	Hours
EET 3100 and EET 3101	5

EET 3300 and EET 3301	5
EET 3750	3
MTH 3300	3
	16
Term 6	Hours
EET 3200 and EET 3201	5
EET 3400 and EET 3401	5
CET 2100	3
PHL 2140	3
	16
Term 7	Hours
EET 3800	3
GET 4840	2
Technical elective	3
Technical elective	3
Open elective	1-3
Open elective	3
	15-17
Term 8	Hours
GET 4850	4
Technical elective	3
Open elective	3
Open elective	3
Open elective	3
	16

Total Hours: 127-129