



# Bachelor's Degree Program ELECTRONICS ENGINEERING TECHNOLOGY<sup>1</sup>

Specialization: **Standard Option**

TECHNOLOGY  
ENGINEERING TECHNOLOGY

## ABOUT THIS DEGREE PROGRAM

### TECH CORE

#### A Foundation in Technology

This program is anchored with Tech Core, curriculum designed to help you build a foundation of interdisciplinary skills you'll need for today's Internet of Things (IoT) economy. You'll learn relevant skills in

operating systems, programming, hardware, connectivity and security – giving you a hands-on foundation in engineering technology, information technology and software and information systems.

#### A Program to Fuel Your Future

Learn how devices are networked and connected via communications technologies, how industrial control systems work to monitor, collect, exchange and analyze data, and how embedded microcomputer systems are created for electro-mechanical and automation application.

#### Is This Program for You?

Want to pursue a career in working with automated, digital systems? This program, which gives you hands-on experience with microprocessors, signal processing, control systems and mechatronics, may be the right fit for you.

## CAREER OPPORTUNITIES

Graduates of DeVry's Electronics Engineering Technology degree program may consider, but are not limited to, the following careers:

- Electrical Engineering Technician
- Electro-mechanical Technician
- Electronics Engineering Technician
- Electronics Technologist
- Field Technical Specialist
- Hardware Systems Technologist
- Test Systems Technologist

## WHAT YOU'LL LEARN

### Essentials

- Communicate methods and findings
- Collaborate in dynamic work environments
- Solve complex problems
- Analyze numerical data
- Apply appropriate technologies

### Tech Core

- Produce, secure, operate and troubleshoot small enterprise networks
- Network, secure and deploy digital devices and sensors into the IoT ecosystem
- Solve technical problems using an algorithmic approach and basic programming and coding methods
- Install and configure operating systems using command-line interface (CLI)

### Program

- Install and upgrade networked, computer-controlled systems
- Test and measure electronic systems
- Troubleshoot automation and control systems
- Work with programmable logic controller as they applied to commercial, motor and industrial control
- Design and simulate analog and digital communications systems
- Execute designs for electronic control of mechanical systems
- Evaluate transmission media as sources of system security vulnerability
- Create embedded microcomputer systems for control electro-mechanical applications.

## QUICK FACTS

**140**  
CREDIT HOURS  
minimum credit hours  
required for graduation<sup>3,4</sup>

**14.7%**  
GROWTH  
nationally from 2016-2026 for Employment  
of electrical/electronics engineering  
technicians in Construction field<sup>5</sup>

**3**  
YEARS  
minimum length  
to graduation<sup>6</sup>



### ACCREDITATION MATTERS

ETAC of ABET promotes technical education excellence by offering programmatic accreditation to Institutions that meet their quality standards. This is a global mark of quality that is valued by employers and professional associations within the field Engineering Technology.

The Electronics Engineering Technology and Engineering Technology – Electronics degree programs are accredited, by location, by The Engineering Technology Accreditation Commission of ABET (ETAC of ABET) [www.abet.org](http://www.abet.org).

### IoT KIT

#### PORTABLE IOT KIT

You can simulate the Internet of Things (IoT) experience wherever you are. With our portable IoT Kit, you'll get hands-on experience in how IoT technologies work in the real world. Your kit will include digital devices, sensors and other tools you will use to build relevant IoT systems.



#### CERTIFICATION EXAM REIMBURSEMENT

We reimburse qualified students up to \$300 for the cost of one industry certification exam attempt across a wide range of fields.

DeVry   
University

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<sup>1</sup>The online version of this program is Engineering Technology - Electronics <sup>2</sup>Must declare a specialization by 30 credit hours for associate degree program and 60 credit hours for bachelor's degree program. <sup>3</sup>133 for students enrolled at a New Jersey Location <sup>4</sup>142 for students enrolled at a Pennsylvania location. <sup>5</sup>[https://www.bls.gov/emp/ind-occ-matrix/occ\\_xlsx/occ\\_17-3023.xlsx](https://www.bls.gov/emp/ind-occ-matrix/occ_xlsx/occ_17-3023.xlsx) Data reflects a national projected percentage change in employment from 2016-2026 and may not reflect local economic conditions. <sup>6</sup>Not including breaks. Assumes year-round, full-time enrollment. Additional program information may be found at <https://www.devry.edu/degree-programs.html>.



## ESSENTIALS

**59**  
 CREDIT HOURS

### Communication Skills

ENGL112 <sup>1</sup>	Composition
ENGL135	Advanced Composition
ENGL216	Technical Writing
SPCH275	Public Speaking

### Humanities<sup>2</sup>

LAS432	Technology, Society and Culture
ETHC232	Ethical and Legal Issues in the Professions

### Social Sciences

ECON312	Principles of Economics
SOCS185	Culture and Society
SOCS325 <sup>3</sup>	Environmental Sociology

### Mathematics and Natural Sciences

ECET345	Signals and Systems with Lab
MATH114	Algebra for College Students
MATH190	Pre-Calculus
MATH260	Applied Calculus I
MATH270	Applied Calculus II
PHYS204	Applied Physics with Lab

### Personal and Professional Development

CARD405	Career Development
COLL148	Critical Thinking and Problem Solving

<sup>1</sup> Students enrolled at a New Jersey location take ENGL108 in lieu of this course.

<sup>2</sup> Students enrolled at a Pennsylvania location must take HUMN451 as part of this requirement.

<sup>3</sup> Students enrolled at a Nevada location must take POLI332 in lieu of this requirement.

## TECH CORE

**21**  
 CREDIT HOURS

### Tech Core

CEIS101	Introduction to Technology and Information Systems
CEIS106	Introduction to Operating Systems
CEIS110	Introduction to Programming
CEIS114	Introduction to Digital Devices
NETW190	Fundamentals of Information Technology and Networking I
NETW200	Fundamentals of Information Technology and Networking II
SEC285	Fundamentals of Information Security

### What's your experience with professors?

“A lot of them worked in the field. In electrical engineering and computer engineering they have the knowledge about what they are teaching.”

- Kristian R.,

Computer Information Systems student

## PROGRAM

**60**  
 CREDIT HOURS

### Automation and Electrical Systems

ECT222	Circuit Analysis Fundamentals
ECT225	Electronic Devices and Systems
ECT284	Automation and Control Systems with Lab

### Information Systems and Programming

CIS170C	Programming with Lab
CIS247C	Object-Oriented Programming with Lab

### Application Development

CIS355A	Business Application Programming with Lab
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### Senior Project

CEIS392	Product, Project, and People Management
CEIS494	Senior Project I
CEIS496	Senior Project II

### Technology Career Preparation

CEIS299	Careers and Technology
CEIS499	Preparation for the Profession

### Engineering Technology Foundations:

#### Electronic and Electrical Systems

CEIS305	Operating Systems
ECET310	Communications Systems with Lab
ECET340	Microprocessor Interfacing with Lab
ECET350	Signal Processing with Lab
ECET365	Embedded Microprocessor Systems with Lab
ECET402	Mechatronics with Lab
NETW310	Wired, Optical and Wireless Communications with Lab
REET425	Electric Machines and Power Systems with Lab