



Bachelor's Degree Programs

# ELECTRONICS ENGINEERING TECHNOLOGY [CAMPUS]

# ENGINEERING TECHNOLOGY - ELECTRONICS [ONLINE]

## ABOUT THESE DEGREE PROGRAMS

Electronics are the core of everything from personal communication devices to sophisticated medical equipment, to the cars and trucks we drive. The Electronics Engineering Technology and Engineering Technology - Electronics degree programs at DeVry University can prepare you with the skills needed for designing, building and improving tomorrow's electronic products and systems. DeVry University has a long history of preparing individuals to work in the electronics industry.

As a student, you can work with the latest technologies and designs, plus test new ones, providing you with real-world insight. You can learn key troubleshooting skills and become immersed in today's engineering hardware and software technologies. You can also learn how to lead and/or be a part of a technical team.

In addition, Electronics Engineering Technology and Engineering Technology - Electronics students can specialize in the area of Renewable Energy.

The Electronics Engineering Technology and Engineering Technology - Electronics degree programs are accredited by The Engineering Technology Accreditation Commission (ETAC) of the Accreditation Board for Engineering and Technology (ABET). Some courses may be taken interchangeably between onsite and online to fulfill graduation requirements. The most recent information on which programs are ETAC of ABET accredited at which locations is available in the Academic Catalog and at <http://www.devry.edu/academics/accreditation.html>.

## GENERAL EDUCATION COURSEWORK

### Communication Skills

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

### Humanities

HUMN303	Introduction to the Humanities
ETHC445	Principles of Ethics
LAS432	Technology, Society, and Culture

### Social Sciences

ECON312	Principles of Economics
SOCS185	Culture and Society
SOCS325	Environmental Sociology

### Mathematics and Analytical Methods

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

### Natural Sciences

PHYS204	Applied Physics with Lab
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### 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.

## CORE-DEGREE COURSEWORK

### Electronic Circuits and Devices

ECET110	Electronic Circuits and Devices I with Lab
ECET210	Electronic Circuits and Devices II with Lab
ECET220	Electronic Circuits and Devices III with Lab
ECET350	Signal Processing with Lab

### Digital Circuits and Microprocessors

CEIS100	Introduction to Engineering Technology and Information Sciences
ECET105	Digital Fundamentals with Lab
ECET230	Digital Circuits and Systems with Lab
ECET330	Microprocessor Architecture with Lab
ECET340	Microprocessor Interfacing with Lab

### Computer Programming and Networking

CIS170C	Programming with Lab
CIS247C	Object-Oriented Programming with Lab
CIS355A	Business Application Programming with Lab
ECET375	Data Communications and Networking with Lab

### Senior Project Design and Development

ECET390	Product Development
ECET492L	Senior Project Development Lab I
ECET493L	Senior Project Development Lab II
ECET494L	Senior Project Development Lab III

### Technology Integration

ECET299	Technology Integration I
ECET497	Technology Integration II

## ACCREDITATION MATTERS

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). 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. To learn more visit [www.abet.org](http://www.abet.org).



Programs, course requirements and availability vary by location. Some courses may be available online only. All students enrolled in site-based programs will be required to take some coursework online and, for some programs and locations, a substantial portion of the program may be required to be completed online. DeVry's academic catalog, available via [devry.edu/catalogs](http://devry.edu/catalogs), contains the most current and detailed program information, including admission, progression and graduation requirements. Information contained herein is effective as of date of publishing.



## Bachelor's Degree Programs

### Electronics Engineering Technology

### Engineering Technology - Electronics

COLLEGE OF  
ENGINEERING & INFORMATION SCIENCES

#### CAREERS IN ELECTRONICS ENGINEERING TECHNOLOGY AND ENGINEERING TECHNOLOGY - ELECTRONICS

Electronics engineers are sought after in many different industries — from consumer product design, to medical device manufacturing to communications. Your ability to design and develop these solutions can make you a valuable asset to any team.

DeVry University's Electronics Engineering Technology and Engineering Technology - Electronics degree programs focus on advanced skill development, using the most current tools and techniques. You can gain experience using the same industry-standard workstations and virtual instrumentation technologies found in engineering firms around the world. You can also build on the written and verbal communication skills that will help you lead teams of engineers to solve 21st century business and electronics challenges.

Graduates of DeVry University's Electronics Engineering Technology and Engineering Technology - Electronics degree programs may consider careers including, but not limited to, the following:

- Application Engineer
- Computer Systems Analyst
- Customer Service Engineer
- Electrical Engineering Technician
- Electronics Technician
- Electronics Engineering Technician
- Engineering Technician
- Field Service Engineer
- Integration Engineer
- Manufacturing Technician
- Sales Engineer
- Test Engineer/Technologist

For comprehensive consumer information, visit [devry.edu/studentconsumerinfo](http://devry.edu/studentconsumerinfo). Important information about the education debt, earnings and completion rates of students who attended this program can be found at [devry.edu/beet-ge](http://devry.edu/beet-ge). For additional program information, visit [devry.edu/beet](http://devry.edu/beet).

In New York, DeVry University operates as DeVry College of New York.

DeVry University is accredited by The Higher Learning Commission (HLC), [www.hlcommission.org](http://www.hlcommission.org). DeVry is certified to operate by the State Council of Higher Education for Virginia. Arlington Campus – 2450 Crystal Dr., Arlington, VA 22202. DeVry University is authorized for operation by the THEC, [www.tn.gov/thec](http://www.tn.gov/thec) Nashville Campus - 3343 Perimeter Hill Dr., Nashville, TN 37211. To report unresolved complaints to the Illinois Board of Higher Education, visit their webpage at <http://complaints.ibhe.org/> or by mail to the Illinois Board of Higher Education, 1 N. Old State Capitol Plaza, Suite 333, Springfield, IL 62701-1377. Program availability varies by location. ©2016 DeVry Educational Development Corp. All rights reserved. Version 09/27/17

#### KNOWLEDGE AND SKILLS

**ENGINEERING AND TECHNOLOGY** — Use knowledge of the practical application of engineering science and technology. This includes applying principles, techniques, procedures and equipment to the design and production of various goods and services.

**COMPUTERS AND ELECTRONICS** — Gain knowledge of circuit boards, processors, chips, electronic equipment and computer hardware and software, including applications and programming.

**CONTROLS AND MECHATRONICS** — Learn the electronic control of mechanical systems, covering sensors and transducers, signal conditioning, actuators, controllers, system models, system transfer functions and dynamic system response.

**SIGNAL PROCESSING** — Explore analog signal processing (ASP) and digital signal processing (DSP), with emphasis on DSP, and program ASP and DSP chips for applications in communications, control systems, digital audio processing and digital image processing.

**MAINTENANCE AND REPAIR** — Service, repair, calibrate, regulate, fine-tune or test machines, devices and equipment that operate primarily on the basis of electrical or electronic (not mechanical) principles.

**COMMUNICATIONS AND NETWORKING** — Examine principles of data communications, including noise effects, multiplexing and transmission methods. Apply protocols, architecture and performance analysis of local and wide area networks.

**ANALYZING DATA OR INFORMATION** — Identify the underlying principles, reasons or facts by breaking down information or data into separate parts.

**DESIGN** — Understand the use of design techniques, tools, and principles involved in the production on electronic equipment, schematics, drawings and models.

**COMPLEX PROBLEM SOLVING** — Identify complex problems and review related information to develop and evaluate options and implement solutions.

#### PROGRAM-SPECIFIC COURSEWORK

<b>ECET310</b>	Communications Systems with Lab
<b>ECET365</b>	Embedded Microprocessor Systems with Lab
<b>ECET465</b>	Advanced Networks with Lab
<b>ECET402</b>	Mechatronics with Lab
<b>ECT284</b>	Automation and Control Systems with Lab
<b>REET425</b>	Electric Machines and Power Systems with Lab