



# Bachelor's Degree Program ENGINEERING TECHNOLOGY – ELECTRONICS

## PROGRAM AVAILABILITY

The Engineering Technology – Electronics degree program is only offered [online](#). For students interested in an [on-site](#) degree program, please refer to the Electronics Engineering Technology program guide for more information.

### ABOUT THIS DEGREE PROGRAM

Electronics are the core of everything from personal communication devices to sophisticated medical equipment, to the cars and trucks we drive. The Engineering Technology – Electronics (ET–E) degree program 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, Engineering Technology – Electronics students can specialize in the area of Renewable Energy.

The Engineering Technology – Electronics degree program is offered online only, and is currently not accredited by the Engineering Technology Accreditation Commission (ETAC) of the Accreditation Board for Engineering and Technology (ABET). ETAC of ABET requires separate reviews of each engineering technology program, both online and at each physical location. DeVry will seek accreditation for this program as soon as appropriate, in accordance with ETAC of ABET procedures. Future accreditation is not guaranteed.

Through our TechPath approach, we've put technology at the core of our programs in business, tech and health – including this program. Every TechPath class you take revolves around a unique learning rubric developed at DeVry. We call it People-Process-Data-Devices or P2D2. You'll gain real skills in collaboration, be able to adapt to new structures, and be comfortable working with data and a wide spectrum of tech-forward tools. P2D2 is a key component of what makes TechPath a smart, new way of getting the knowledge you need to be ready to hit the ground running in the way successful companies work today.

### GENERAL EDUCATION COURSEWORK

#### Communication Skills

- ENGL112** Composition
- ENGL135** Advanced Composition
- ENGL216** Technical Writing
- SPCH275** Public Speaking Humanities

#### 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
- MATH190** Pre-Calculus
- MATH260** Applied Calculus I
- MATH270** Applied Calculus II

#### Natural Sciences

- PHYS310** College Physics I with Lab
- PHYS320** College Physics II with Lab

#### Personal and Professional Development

- CARD405** Career Development
- COLL148** Critical Thinking and Problem-Solving

### 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

## DID YOU KNOW?

DeVry University provides highly interactive coursework and several innovative resources when taking engineering technology courses online. This includes test equipment hardware kits and access to a dedicated home lab manager to assist students with software and hardware configuration, in their own home lab environment.



## Bachelor's Degree Program Engineering Technology - Electronics

COLLEGE OF  
ENGINEERING & INFORMATION SCIENCES

### CAREERS IN ELECTRONICS ENGINEERING TECHNOLOGY

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 Engineering Technology – Electronics degree program focuses on advanced skill development, using the most current tools and techniques. You can also build on the written and verbal communication skills that will help you to lead teams of engineers to solve 21st century business and electronics challenges.

Graduates of DeVry University's Engineering Technology – Electronics degree program 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 07/03/17

### 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 of 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

- ECET310** Communications Systems with Lab
- ECET365** Embedded Microprocessor Systems with Lab
- ECET465** Advanced Networks with Lab
- ECET402** Mechatronics with Lab
- ECT284** Automation and Control Systems with Lab
- REET425** Electric Machines and Power Systems with Lab

Courses in blue are part  
of the DeVry Tech Path

DeVry   
University

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