



Bachelor's Degree Program
**ENGINEERING
TECHNOLOGY – ELECTRONICS**
Specialization: **Renewable Energy**

PROGRAM AVAILABILITY

The Engineering Technology – Electronics with Renewable Energy specialization degree program is only offered [online](#). For students interested in an [on-site](#) degree program, please refer to the Electronics Engineering Technology with Renewable Energy specialization 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, students may take the Engineering Technology – Electronics degree program without a specialization.

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

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

Social Sciences

- ECON410** Environmental Economics
- 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

- BIOS135** Foundations in Biology and Chemistry with Lab
- PHYS310** College Physics I with Lab
- PHYS320** College Physics II with Lab
- SCI204** Environmental Science 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

- CISI70C** 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

Courses in blue are part of the DeVry Tech Path

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.

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, 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 Program | Engineering Technology - Electronics SPECIALIZATION: RENEWABLE ENERGY

COLLEGE OF
ENGINEERING & INFORMATION SCIENCES

ABOUT THIS SPECIALIZATION

DeVry University's Renewable Energy specialization provides a strong engineering technology and electronics background with an emphasis on green technologies, such as wind, solar, geothermal and biomass power. As a graduate, you can be well-versed in alternative energy generation, as well as the impact of environmental science, economics and sociology on green technology.

You can also obtain the knowledge needed to understand how engineering design, planning and project management can utilize renewable sources of energy, along with the production, transmission and storage of sustainable energy sources. Our specialization in Renewable Energy can prepare you for Engineering Technology positions that are increasingly being affected by green technologies and initiatives.

Graduates of DeVry University's Engineering Technology – Electronics degree program with a specialization in Renewable Energy may consider careers including, but not limited to, the following:

- Electronics Technician
- Energy Engineering Technician
- Technical Project Manager
- Test Engineers and Technologists

For comprehensive consumer information, visit 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. For additional program information, visit 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. 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/thecc 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. ©2017 DeVry Educational Development Corp. All rights reserved. Version 06/27/17

KNOWLEDGE AND SKILLS

CONSERVATION PRINCIPLES IN ENGINEERING AND TECHNOLOGY — Examine conservation laws of mass, energy, charge and momentum, and apply fundamental engineering concepts to problems in electrical circuits.

FUNDAMENTALS OF POWER AND ALTERNATIVE ENERGY SOURCES — Explore to power switching circuits, including simulation and construction of systems needed to convert power derived from both conventional systems and alternative energy sources such as solar and wind.

ENVIRONMENTAL SCIENCE AND SOCIAL STUDY — Learn to identify causes of environmental problems and apply practical solutions. This includes exploring cultural norms, ideologies, beliefs, and economic and gender-related factors that affect finding and providing sustainable solutions to environmental problems.

SCIENCE, TECHNOLOGY AND MANAGEMENT — Learn the science and technology behind renewable energy while considering business decisions required for investing in and managing systems using this technology. Explore renewable energies including solar technologies, fuels synthesized from biomass, hydrogen, wind and others.

ENGINEERING AND TECHNOLOGY — Gain 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 — Learn about circuit boards, processors, chips, electronic equipment and computer hardware and software, including applications and programming.

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.

ANALYZE DATA OR INFORMATION — Identify the underlying principles, reasons or facts and break 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

Renewable Energy

- ECET301** Conservation Principles in Engineering and Technology with Lab
- REET300** Introduction to Alternative Energy Technologies with Lab
- REET420** Power Electronics and Alternative Energy Applications with Lab
- REET425** Electric Machines and Power Systems with Lab
- SUST310** Renewable Energy: Science, Technology and Management

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