Bachelor's Degree Program

ELECTRONICS ENGINEERING TECHNOLOGY[1]

Specialization: **Renewable Energy**

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 electric machines generate electricity, how power is transmitted and managed, and how a variety of renewable and sustainable energy sources work.

Is This Program for You?

Want to pursue a career working with sustainable and renewable energy technologies? Then this program may be the right fit for you.

CAREER OPPORTUNITIES

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

- Electrical Engineering Technician
- Electronics Engineering Technician
- Energy Analyst
- Energy Conservation Specialist
- Energy Monitoring Specialist
- Power and Energy Technologist
- Power and Renewable Energy 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

Specialized

- Evaluate electric machines, power systems and power transmission
- Design and simulate power switching circuits, rectifiers, AC-DC and DC-DC converters, inverters and motor drives
- Address the science, technological, engineering and business considerations when implementing alternative and renewable energy sources
- Examine and apply conservation laws of mass, energy, charge and momentum

QUICK FACTS

140
CREDIT HOURS
minimum credit hours required for graduation[2,3]

17%
of U.S. electricity generation were from renewable energy sources in 2017[4]

3
YEARS
minimum length to graduation[5]

ABET Engineering Technology Accreditation Commission

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.

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.

UP TO $300

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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[1]The online version of this program is Engineering Technology - Electronics [2]133 for students enrolled at a New Jersey Location [3]142 for students enrolled at a Pennsylvania location.
[4]Renewable Energy Explained, U.S. Energy Information Administration, Independent Statistics & Analysis, found at https://www.eia.gov/energyexplained/index.php?page=renewable_home, updated July 10, 2018, visited on the internet October 17, 2018.
[5]Not including breaks. Assumes year-round, full-time enrollment. Additional program information may be found at https://www.devry.edu/degree-programs.html.

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Electronics Engineering Technology | Renewable Energy

TECHNOLOGY
ENGINEERING TECHNOLOGY

ESSENTIALS

59 CREDIT HOURS

Communication Skills

ENGL112[1]	Composition
ENGL135	Advanced Composition
ENGL216	Technical Writing
SPCH275	Public Speaking

Humanities[2]

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

Social Sciences

ECON312	Principles of Economics
SOCS185	Culture and Society
SOCS325[3]	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

[1] Students enrolled at a New Jersey location take ENGL108 in lieu of this course.
[2] Students enrolled at a Pennsylvania location must take HUMN451 as part of this requirement.
[3] 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

30 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

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

SPECIALIZED

30 CREDIT HOURS

Engineering Technology Foundations: Sustainability and Renewable Energy

BIOS135	Foundations in Biology and Chemistry
ECET301	Conservation Principles in Engineering and Technology with Lab
ECET350	Signal Processing 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
SCI204	Environmental Sciences with Lab
SUST310	Renewable Energy: Science, Technology and Management

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