ENGINEERING TECHNOLOGY

Specialization: Renewable Energy and Sustainable Power



ABOUT THIS PROGRAM

IS THIS PROGRAM FOR YOU?

If you are interested in exploring the technology necessary to produce renewable energy and making sustainable energy universally available, then this might be the right program for you.

A PROGRAM TO FUEL YOUR FUTURE

The Renewable Energy and Sustainable Power specialization provides an opportunity for students to explore alternative energy technologies including photovoltaics, solar thermal systems, wind power and more. Students will utilize cloud-based design and analysis tools to perform various power calculations, explore energy infrastructure and resources and identify types of alternative energy sources used globally and in the United States.

CAREER OPPORTUNITIES

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

- Electrical and Electronic Engineering Technologists and Technicians
- Electro-Mechanical and Mechatronics **Technologists and Technicians**
- · Engineering Technician
- · Engineering Technologist and Technicians, Except Drafters, All Other
- Field Service Assistant
- Field Service Technician
- · Industrial Engineering Technologists and **Technicians**
- Renewable Energy Technician
- Solar Technician

WHAT YOU'LL LEARN

ESSENTIALS

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

TECH CORE

- Illustrate the basics of computing and explain the value of data and troubleshooting
- Install and configure operating systems using Command Line Interface (CLI)
- Solve technical problems using an algorithmic approach and basic programming and coding methods
- · Network, secure, and deploy digital devices and sensors into the internet of things ecosystem

PROGRAM

- Design and analyze circuits ensuring proper construction, voltage and currents
- Understand the essential components of control systems designs and how to apply ladder logic to debug or maintain applications

SPECIALIZED

- · Understand sustainability issues involving global challenges engineers face across multiple disciplines
- Understand common alternate energy sources and how they work
- Study essential power electronic circuitry in energy systems and devices
- Explore power systems and how power is generated, transmitted and delivered to the consumer

QUICK FACTS

required for graduation

COURSES

ACCREDITATION MATTERS



ETAC of ABET accredits postsecondary, degreegranting programs that meet their global standards for technical education. This is a global mark of quality that is respected by employers and professional associations within the Engineering Technology field. The Associate in Engineering Technology degree program is accredited by The Engineering Technology Accreditation Commission of ABET (ETAC of ABET) www.abet.org.



CERTIFICATION EXAM ALIGNED CURRICULUM

Experience elements of our technology curriculum focused on real-world industry standards and prepare for certification opportunities to help validate your knowledge and skills, such as:

- CompTIA Linux+ CompTIA A+ CompTIA ITF+
- · PCEP Certified Entry-Level Python Programmer



ACCELERATE ON YOUR SCHEDULE

Choose the schedule that best fits your goals and commitments. You can earn your **Associate Degree** in as little as 1 years 4 months.

Or, follow a normal schedule and complete your program in 2 years.

- * Minimum completion time does not include breaks and assumes 3 semesters of year-round, full-time enrollment in 15-17 credit hours a semester per 12-month period.
- ** Normal completion time includes breaks and assumes 2 semesters of enrollment in 15-17 credit hours per semester per 12-month period.



Engineering Technology - Renewable Energy and Sustainable Power

ESSENTIALS 26
COMMUNICATION SKILLS

ENGL112 Composition

Select one

SPCH275 Public Speaking

SPCH276 Intercultural Communication 🕏

HUMANITIES

Select one

ETHC232 Ethical and Legal Issues in the Professions

ETHC334 Diversity, Equity and Inclusion in the Workplace 🕏

SOCIAL SCIENCES

SOCS185 Culture and Society ⊗

MATHEMATICS AND NATURAL SCIENCES

MATH114 Algebra for College Students

TECH204 Everyday Physics

PERSONAL AND PROFESSIONAL DEVELOPMENT

CARD205 Career Development

COLL148 Critical Thinking and Problem-Solving

BE AN ACTIVE PART OF AN INCLUSIVE FUTURE



Customize your curriculum by choosing Diversity, Equity and Inclusion (DE&I) course alternates for your Communication Skills, Humanities and Social Science courses. These course options – denoted by this icon - highlight relevant topics to help empower you to promote an inclusive workplace.

TECH CORE

12

CREDIT HOURS

Introduction to Digital Devices

CEIS101 Introduction to Technology and Information Systems

CEIS106 Introduction to Operating Systems
CEIS110 Introduction to Programming

SPECIALIZED

10 CREDIT HOURS

RENEWABLE ENERGY AND SUSTAINABLE POWER

TECH215 Introduction to Sustainability

Select two

CEIS114

REET302 Introduction to Alternative Energy Technologies

REET322 Power Electronics and Alternative Energy

Applications

REET326 Electric Machines and Power Systems

PROGRAM

16 CREDIT HOURS

PROGRAM FOCUS

ECT226 Electronic Device and System Foundations

ECT286 Automation and Control

Three of:

ECT308 Introduction to Computer-Aided Design

ECT313 Generative Design ECT315 Industrial IoT

ECT320 Manufacturing Processes and System

ECT325 Electromechanical Systems

NETW191 Fundamentals of Information Technology and

Networking

NETW212 Introduction to Cloud Computing

SEC285 Fundamentals of Information System Security

TECH301 Design of Experiments

CAREER PREPARATION

CEIS298 Introduction to Technical Project Management

Earn a credential at every step.



BACHELOR'S

+62
CREDIT HOURS
REMAINING

126



This Associate in Engineering Technology with a specialization in Renewable Energy and Sustainable Power can serve as a steppingstone to our Engineering Technology bachelor's degree. If you choose to continue on with your education, all credits apply to this credential. Build your confidence – and your resume – when you start your journey at DeVry.*

*The figures displayed represent the minimum credit hours required for graduation. Additional coursework may be necessary to complete program requirements. At the time of application to the next credential level, an evaluation of qualifying credits will occur and the most beneficial outcome will be applied. Future programmatic changes could impact the application of credits to a future program. Refer to the academic catalog for details.

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