

# ENGINEERING TECHNOLOGY



## ABOUT THIS PROGRAM

### IS THIS PROGRAM FOR YOU?

If you have an interest in a science, technology, engineering or math (STEM) career field exploring how technology is used to improve processes in a production environment, then the undergraduate [Engineering Technology certificate program](#) may be the right program for you.

### A PROGRAM TO FUEL YOUR FUTURE

Learn and apply the fundamental engineering technology principles needed to support the installation, testing and maintenance of automated, computer-based and distributed systems. Customize your program to explore your interest choosing from the following specialization options as you prepare to pursue your career goals:

- General Option: Tailor the program to your interests and/or apply prior college credit or applicable military experience.
- Machine Learning and Design Techniques: Learn how systems are designed and ways to improve processes using machine learning.
- Medical Technology and Healthcare Systems: Explore technology as it relates to the medical field such as imaging technology, telemedicine and medical instrumentation.
- Renewable Energy and Sustainable Power: Study alternative energy technologies and applications and the basics of electric machines and power systems.

## CAREER OPPORTUNITIES

Graduates of DeVry's Engineering Technology certificate program may consider, but are not limited to entry-level opportunities in such positions as:

- Electrical and Electronic Engineering Technologists and Technicians
- Electro-mechanical and Mechatronics Technologists and Technicians
- Industrial Engineering Technologists and Technicians
- Engineering Technologist and Technicians (except drafters)

## QUICK FACTS

**39**  
CREDIT HOURS  
minimum credit hours  
required for graduation

**13**  
COURSES

**1**  
YEAR  
minimum length  
for graduation<sup>1</sup>

### TECH CORE

#### ANCHORED IN TECH CORE

Prepare to be immersed in coursework designed to help you build interdisciplinary skills you'll need for today's Internet of Things (IoT) economy. Project work and activities allow you to develop relevant skills in:

- Digital Devices
- Operating Systems
- Networking and Security
- Programming

### IoT PROJECTS

#### WORK WITH IOT TECHNOLOGIES & SYSTEMS

Immerse yourself in the Internet of Things (IoT) world and obtain hands-on experience with IoT, cloud, software and security technologies and systems.

### SKILLS FOCUSED

#### CERTIFICATION EXAM ALIGNED CURRICULUM

Experience elements of our technology curriculum focused on real-world industry standards and prepare for certification opportunities that help validate your knowledge and skills. Examples of some of the certification opportunities that a student may prepare to pursue include:

- CompTIA A+
- CompTIA ITF+
- CompTIA Linux+
- CompTIA Network+
- CompTIA Cloud +
- CompTIA Security+
- Lean Six Sigma Yellow Belt<sup>2</sup>
- Autodesk Certified User<sup>2</sup>

<sup>1</sup>Not including breaks. Assumes year-round, full-time enrollment. Additional program information may be found at <https://www.devry.edu/online-programs.html>.

<sup>2</sup>Only elements of our Engineering Technology certificate program with a specialization in Machine Learning and Design Techniques are aligned to help prepare students to pursue the Lean Six Sigma Yellow Belt and Autodesk Certified User certification exams. The other specialization options, including the general option, do not align with these two certification exams.

# Undergraduate Certificate | Tech Engineering Technology

## PROGRAM

### MATHEMATICS

MATH114 Algebra for College Students

### TECH CORE

CEIS101C Introduction to Technology and Information Systems

CEIS106 Introduction to Operating Systems

CEIS110 Introduction to Programming

CEIS114 Introduction to Digital Devices

NETW191 Fundamentals of Information Technology and Networking

NETW211 Fundamentals of Cloud Computing

### AUTOMATION AND ELECTRONIC SYSTEMS

ECT226 Electronic Device and System Foundations

ECT286 Automation and Controls

### CAREER PREPARATION

CEIS299 Careers and Technology

## WHAT YOU'LL LEARN

### MATHEMATICS

- Solve complex problems

### 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

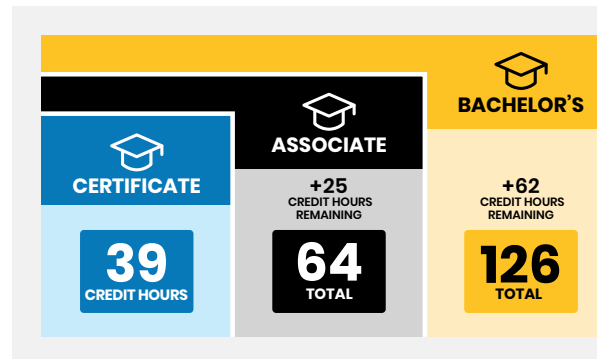
- Design and analyze circuits ensuring proper construction, voltage and currents
- Understand the essential components of control systems designs and how to apply ladder logic to debug or maintain applications

### SPECIALIZED

Students may choose from one of four specializations as a part of this Engineering Technology Certificate Program:

*Available specializations include:*

- General Option
- Machine Learning and Design Techniques
- Medical Technology and Healthcare Systems
- Renewable Energy and Sustainable Power



### EARN A CREDENTIAL AT EVERY STEP

Once you earn our Engineering Technology Certificate, you may choose to continue your education at your pace at DeVry by applying all credits toward an Associate degree in Engineering Technology, which then stacks directly into the Bachelor's degree in Engineering Technology program.\*

\*The figures displayed represent the minimum credit hours required for graduation. At the time of application to the next credential level, an evaluation of qualifying transfer credit will occur and the most beneficial outcome will be applied.

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In New York, DeVry University operates as DeVry College of New York. DeVry University is accredited by The Higher Learning Commission (HLC), <https://www.hlcommission.org>. Keller Graduate School of Management is included in this accreditation. DeVry is certified to operate by the State Council of Higher Education for Virginia. Arlington Campus: 1400 Crystal Dr., Ste. 120, Arlington, VA 22202. DeVry University is authorized for operation as a postsecondary educational institution by the Tennessee Higher Education Commission, <https://www.tn.gov/thecc>. Nashville Campus: 301 S. Perimeter Park Dr., Ste. 100, Nashville, TN 37211. 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 <https://www.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. ©2021 DeVry Educational Development Corp. All rights reserved. Version 12/10/2021