

# 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

**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:

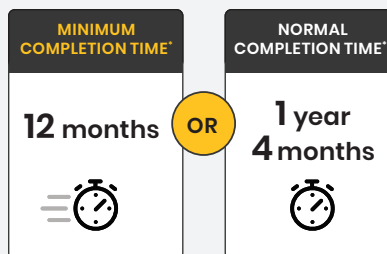
- Digital Devices
- Programming

**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+
- Lean Six Sigma Yellow Belt<sup>1</sup>
- Autodesk Certified User<sup>1</sup>



### ACCELERATE ON YOUR SCHEDULE

Choose the schedule that best fits your goals and commitments. You can earn your **Undergraduate Certificate** in as little as **12 months**.

Or, follow a normal schedule and complete your program in 1 year 4 months.

<sup>1</sup> Minimum completion time does not include breaks and assumes 3 semesters of year-round, full-time enrollment in 13 credit hours a semester per 12-month period.  
<sup>2</sup> Normal completion time includes breaks and assumes 2 semesters of enrollment in 13 credit hours per semester per 12-month period.

<sup>1</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.

## PROGRAM

### MATHEMATICS

MATH114 Algebra for College Students

### TECH CORE

CEIS101C Introduction to Technology and Information Systems  
 CEIS110 Introduction to Programming  
 CEIS114 Introduction to Digital Devices

### 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 Systems  
 ECT325 Electromechanical Systems  
 NETW191 Fundamentals of Information Technology & Networking  
 NETW212 Introduction to Cloud Computing

### CAREER PREPARATION

CARD205 Career Development

## SPECIALIZATION

### SPECIALIZED

Select one specialization from the four options below:

### GENERAL OPTION

Select applicable courses from the College of Engineering & Information Sciences and the College of Business & Management provided prerequisites are met.

### MACHINE LEARNING AND DESIGN TECHNIQUES

TECH221 Data-Driven Decision Making

Two of:

ECT313 Generative Design  
 TECH231 Introduction to Artificial Intelligence Applications  
 TECH310 Process Improvement

### MEDICAL TERMINOLOGY AND HEALTHCARE SYSTEMS

BIOS105 Fundamentals of Human Anatomy and Physiology

Two of:

BMET314 Medical Instrumentation  
 BMET316 Medical Imaging Technology  
 BMET318 Telemedicine

### RENEWABLE ENERGY AND SUSTAINABLE POWER

TECH215 Introduction to Sustainability

Two of:

REET302 Introduction to Alternative Energy Technologies  
 REET322 Power Electronics and Alternate Energy Applications  
 REET326 Electric Machines and Power Systems

## WHAT YOU'LL LEARN

### MATHEMATICS

- Solve complex problems

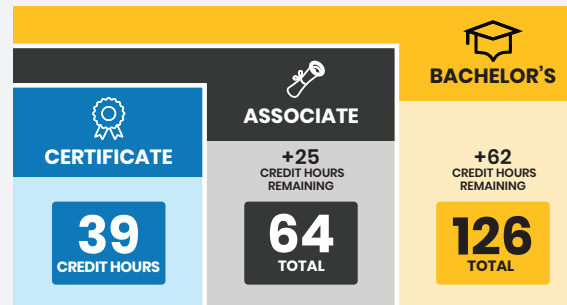
### TECH CORE

- Illustrate the basics of computing and explain the value of data and troubleshooting.
- 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 FOCUS

- 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

### Earn a credential at every step.



### 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. 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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