

# ENGINEERING TECHNOLOGY

Specialization: General Option



## ABOUT THIS PROGRAM

### IS THIS PROGRAM FOR YOU?

If you are interested in a STEM career field exploring how technology is used to improve processes in a production environment, then this may be the right program for you.

### A PROGRAM TO FUEL YOUR FUTURE

Develop a basic understanding of the engineering principles needed to support the maintenance, installation and testing of automated, computer-based and/or distributed systems when you pursue the General Option. This track was designed to provide students the fundamentals while also providing the flexibility to customize your program based on your interest or transfer qualifying credits from prior college or applicable military experience.

### CAREER OPPORTUNITIES

Graduates of DeVry's Engineering Technology associate degree with a General Option specialization 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 Technologist and Technicians, Except Drafters, All Other
- Industrial Engineering Technologists and Technicians

## 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

## QUICK FACTS

**64**  
CREDIT HOURS  
minimum credit hours  
required for graduation

**21**  
COURSES

### ACCREDITATION MATTERS

ETAC of ABET accredits postsecondary, degree-granting 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](http://www.abet.org).



### 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.

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

**SKILLS  
FOCUSED**

### 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 – General Option

### ESSENTIALS

**26**  
CREDIT HOURS

#### COMMUNICATION SKILLS

ENGL112 Composition  
SPCH275 Public Speaking

#### HUMANITIES

ETHC232 Ethical and Legal Issues in the Professions

#### 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

### TECH CORE

**12**  
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

### SPECIALIZED

**10**  
CREDIT HOURS

#### GENERAL OPTION

Students select applicable 300-level courses from the College of Engineering & Information Sciences and the College of Business & Management provided prerequisites are met.

### 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.



### HOW DO CREDENTIALS STACK?

This Associate in Engineering Technology 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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