

# ENGINEERING TECHNOLOGY



## ABOUT THIS PROGRAM

### IS THIS PROGRAM FOR YOU?

Want to pursue a career in working with automated, digital systems? This program may be the right fit for you.

### A PROGRAM TO FUEL YOUR FUTURE

Develop a basic understanding of engineering principles and apply your knowledge in the implementation of systems, processes and technical operations. Students have the opportunity to customize their program with electives focused on specific technologies of interest and/or business management coursework aligned to their career interests.

### EMBEDDED PROGRAM

Earn two additional credentials with our unique 3-in-1 design. All courses in our Engineering Technology certificate program with a specialization in Machine Learning and Design Techniques and Associate in Engineering Technology degree program with a specialization in Machine Learning and Design Techniques are embedded in this program. So, you can earn a certificate and an associate degree on the way to your bachelor's degree at DeVry.

### CAREER OPPORTUNITIES

Graduates of DeVry's Engineering Technology bachelor's degree program may consider, but are not limited to, the following careers:

- Electrical Engineering Technologist
- Engineering Technician I/II
- Manufacturing Engineering Technician
- Entry-level Project Engineer
- Maintenance Tech Engineer

## WHAT YOU'LL LEARN

### ESSENTIALS

- Collaborate in a dynamic work environment
- Solve complex problems
- Analyze numerical data
- Apply technical writing skills to develop

### 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
- that can be applied in diverse technology fields including biomedical, mechanical, electrical and electronic design
- Examine the application of AI and ML in tech fields
- Learn six sigma and general statistical principles applied to statistical process control to improve products and processes

## QUICK FACTS

**126**  
CREDIT HOURS  
minimum credit hours  
required for graduation

**40**  
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 Bachelor's 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).



### SKILLS FOCUSED

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

MINIMUM  
COMPLETION TIME\*

**2 years  
8 months**



NORMAL  
COMPLETION TIME\*\*

**4 years**



OR

### ACCELERATE ON YOUR SCHEDULE

Choose the schedule that best fits your goals and commitments. You can earn your **Bachelor's Degree** in as little as **2 years 8 months**.

Or, follow a normal schedule and complete your program in 4 years.

\* Minimum completion time does not include breaks and assumes 3 semesters of year-round, full-time enrollment in 12-18 credit hours a semester per 12-month period.  
\*\* Normal completion time includes breaks and assumes 2 semesters of enrollment in 12-18 credit hours per semester per 12-month period.

# Engineering Technology

## ESSENTIALS

**35**  
CREDIT HOURS

### COMMUNICATION SKILLS

ENGL112	Composition
ENGL135	Advanced Composition
ENGL216	Technical Writing

*Select one*

SPCH275	Public Speaking
SPCH276	Intercultural Communication ☼

### HUMANITIES

LAS432	Technology, Society, and Culture ☼
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*Select one*

ETHC232	Ethical and Legal Issues in the Professions
ETHC334	Diversity, Equity and Inclusion in the Workplace ☼

### SOCIAL SCIENCES

ECON312	Principles of Economics
SOCS185	Culture and Society ☼

*Select one*

SOCS325	Environmental Sociology
SOCS350	Cultural Diversity in the Professions ☼

### PERSONAL AND PROFESSIONAL DEVELOPMENT

CARD405	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

**15**  
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
NETW191	Fundamentals of Information Technology and Networking

## PROGRAM

**63**  
CREDIT HOURS

### MATHEMATICS AND NATURAL SCIENCES

ECT345	Signals and Systems
MATH114	Algebra for College Students
MATH190	Pre-Calculus
MATH265	Applied Calculus
TECH204	Everyday Physics
TECH221	Data-Driven Decision-Making
TECH301	Design of Experiments

### PROGRAM FOCUS

ECT226	Electronic Device and System Foundations
ECT286	Automation and Control
ECT308	Introduction to Computer-Aided Design
TECH231	Introduction to Artificial Intelligence Applications
TECH310	Process Improvement

**Three of:**

ECT313	Generative Design
ECT315	Industrial IoT
ECT320	Manufacturing Processes and Systems
ECT325	Electromechanical Systems
NETW212	Introduction to Cloud Computing
SEC285	Fundamentals of Information Security

### CAREER PREPARATION

CEIS298	Introduction to Technical Project Management
CEIS499	Preparation for the Profession
MGMT404	Project Management
TECH408	Applied AI for Management and Technology
TECH460	Senior Project

## TECHNICAL & BUSINESS SELECTION

**13**  
CREDIT HOURS

Student's select applicable courses from the College of Engineering & Information Sciences and the College of Business & Management provided prerequisites are met. At least two courses must be at the 300-level or higher.

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