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.

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 Security+
- CompTIA Network+
- CompTIA Cloud+
- CompTIA Linux+

CAREER OPPORTUNITIES
Graduates of DeVry’s Engineering Technology Bachelor’s degree program may consider, but are not limited to, the following careers:

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

WHAT YOU’LL LEARN

ESSENTIALS
- Communicate methods and findings
- Collaborate in a dynamic work environment
- Solve complex problems
- Analyze numerical data
- Apply appropriate technologies
- Interactive problem solving and data modeling
- Apply technical writing skills to develop
- Explore and apply basic elements of effective documentation relevant to the workplace communication including public speaking

TECH CORE
- Produce, secure, operate and troubleshoot a small enterprise network
- Network, secure and deploy digital devices and sensors into the Internet of Things 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
- Apply knowledge of industrial processes toward the design and implementation of an integrated industrial IoT system
- Explore basic engineering technology concepts related to communication, problem-solving, design and ethics
- Understand various types of media used to connect computing and digital devices to secure networks
- Explore fundamental concepts of signals and systems as applied to image processing, energy systems, networks, communications and controls
- Analyze a technology based problem, utilize engineering principles to form a solution and apply project management skills to implement those solutions

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.

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- CompTIA Cloud+

ACCELERATE AT YOUR PACE
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.

*Per 12-month period, assumes completion of 3 semesters, enrollment in 12-18 credit hours per semester and continuous, full-time year-round enrollment with no breaks.
**Per 12-month period, assumes completion of 2 semesters and full-time enrollment in 12-18 credit hours per semester.
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

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

TECH CORE 21 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
NETW211 Fundamentals of Cloud Computing
SEC285 Fundamentals of Information System Security

HUMANITIES
LAS432 Technology, Society, and Culture

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

TECH CORE
CEIS301 Engineering Technology Fundamentals
ECT345 Signals and Systems
MATH114 Algebra for College Students
MATH190 Pre-Calculus
MATH221 Statistics for Decision Making
MATH265 Applied Calculus
PHYS204 Applied Physics with Lab

AUTOMATION AND ELECTRONIC SYSTEMS
ECT226 Electronic Device and System Foundations
ECT286 Automation and Control
ECT315 Industrial IoT
NETW310 Wired, Optical and Wireless Communications with Lab

ANALYSIS AND DESIGN
CEIS308 Systems and Computer Aided Design
CEIS310 Process Improvement with Machine Learning
CEIS312 Introduction to Artificial Intelligence and Machine Learning

CAREER PREPARATION
CEIS299 Careers and Technology
CEIS499 Preparation for the Profession
MGMT404 Project Management
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.

BE AN ACTIVE PART OF AN INCLUSIVE FUTURE
Customize your curriculum by choosing Diversity, Equity and Inclusion (DEI) 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.