ABOUT THIS PROGRAM

IS THIS PROGRAM FOR YOU?
If you are interested in understanding how machine learning models can help inform process improvements, then this may be the right program for you.

A PROGRAM TO FUEL YOUR FUTURE
Explore how systems are designed and ways to improve existing processes leveraging machine learning when you pursue this specialization.

Students will utilize computer design tools to create three dimensional models and explore process improvements. This includes developing, testing and training machine learning models to apply linear regression for making predictions.

CAREER OPPORTUNITIES
Graduates of DeVry's Engineering Technology associate degree program with a specialization in Machine Learning and Design Techniques may consider, but are not limited to, the following careers:

• Electrical and Electronic Engineering Technologists and Technicians
• Engineering Prototyping and Fabrication Tech Support Specialist
• Electro-Mechanical and Mechatronics Technologists and Technicians
• Engineering CAD Technician
• Engineering Technologist and Technicians, Except Drafters, All Other
• Industrial Engineering Technologists and Technicians
• Manufacturing Engineering Technician

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
• 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

SPECIALIZED
• Utilize data and analysis techniques to solve problems and drive decisions
• Leverage computer-aided design (CAD) software to facilitate the generation, modification and optimization of system design
• Explore and apply process improvement methodologies to evaluate and enhance the performance of systems
• Solve technical problems using an algorithmic approach and basic programming and coding methods

QUICK FACTS

64 CREDIT HOURS
minimum credit hours required for graduation

21 COURSES

1 + 4 YEAR MONTHS
minimum length to graduation

EMBEDDED PROGRAM
DeVry offers a unique 2-in-1 design that allows our Engineering Technology certificate program with a specialization in Machine Learning and Design Techniques to be embedded within this Associate in Engineering Technology degree program, giving you the chance to earn your certificate on the way to your associate degree.

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 Network+
• CompTIA Security+
• CompTIA Linux+
• PCEP Certified Entry-Level Python Programmer
• CompTIA ITF+
• CompTIA Cloud+
• CompTIA Linux+
• Autodesk Certified User

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 options highlight relevant topics to help empower you to promote an inclusive workplace.
ESSENTIALS

COMMUNICATION SKILLS

ENGL112 Composition

Select one

SPCH275 Public Speaking

SPCH276 Intercultural Communication

HUMANITIES

Select one

ETHC232 Ethical and Legal Issues in the Professions

ETHC334 Diversity, Equity and Inclusion in the Workplace

SOCIAL SCIENCES

SOC185 Culture and Society

MATHEMATICS AND NATURAL SCIENCES

MATH114 Algebra for College Students

PHYS204 Applied Physics with Lab

PERSONAL AND PROFESSIONAL DEVELOPMENT

CARD205 Career Development

COLL148 Critical Thinking and Problem-Solving

This icon indicates Diversity, Equity & Inclusion Courses

TECH CORE

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

NETW285 Fundamentals of Information System Security

PROGRAM

AUTOMATION AND ELECTRONIC SYSTEMS

ECT226 Electronic Device and System Foundations

ECT286 Automation and Controls

CAREER PREPARATION

CEIS299 Careers and Technology

SPECIALIZED

MACHINE LEARNING AND DESIGN TECHNIQUES

MATH221 Statistics for Decision Making

Select two

CEIS308 Systems and Computer Aided Design

CEIS310 Process Improvement with Machine Learning

CEIS312 Introduction to Artificial Intelligence and Machine Learning

PERSONAL AND PROFESSIONAL DEVELOPMENT

CARD205 Career Development

COLL148 Critical Thinking and Problem-Solving

Earn a credential at every step.

ASSOCIATE

64 CREDIT HOURS

BACHELOR'S

126 TOTAL

+62 CREDIT HOURS REMAINING

HOW DO CREDENTIALS STACK?

This Associate in Engineering Technology with a specialization in Machine Learning and Design Techniques 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. 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.