ABOUT THIS DEGREE PROGRAM

A FOUNDATION IN TECHNOLOGY
This program is anchored with Tech Core, curriculum designed to help you build a foundation of interdisciplinary skills you’ll need for today’s Internet of Things (IoT) economy. You’ll learn relevant skills in operating systems, programming, hardware, connectivity and security – giving you a hands-on foundation in engineering technology, information technology and software and information systems.

A PROGRAM TO FUEL YOUR FUTURE
Learn how devices are networked and connected via communications technologies, how industrial control systems work to monitor, collect, exchange and analyze data, and how embedded microcomputer systems are created for electro-mechanical and automation application.

IS THIS PROGRAM FOR YOU?
Want to pursue a career in working with automated, digital systems? This program, which gives you hands-on experience with microprocessors, signal processing, control systems and mechatronics, may be the right fit for you.

CAREER OPPORTUNITIES
Graduates of DeVry’s Engineering Technology - Electronics degree program may consider, but are not limited to, the following careers:
- Electrical Engineering Technician
- Electronics Engineer
- Electronics Technologist
- Field Technical Specialist
- Hardware Systems Technologist
- Test Systems Technologist
- Field Service Engineer
- Sales Engineer
- Applications Engineer

WHAT YOU’LL LEARN

ESSENTIALS
- Communicate methods and findings
- Collaborate in dynamic work environments
- Solve complex problems
- Analyze numerical data
- Apply appropriate technologies

TECH CORE
- Produce, secure, operate and troubleshoot small enterprise networks
- Network, secure and deploy digital devices and sensors into the IoT 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
- Install and upgrade networked, computer-controlled systems
- Test and measure electronic systems
- Troubleshoot automation and control systems
- Work with programmable logic controller as they applied to commercial, motor and industrial control
- Design and simulate analog and digital communications systems
- Execute designs for electronic control of mechanical systems
- Evaluate transmission media as sources of system security vulnerability
- Create embedded microcomputer systems for control electro-mechanical applications

QUICK FACTS

139
CREDIT HOURS
minimum credit hours required for graduation

3
Years
minimum length to graduation

ACCREDITATION MATTERS
ETAC of ABET promotes technical education excellence by offering programmatic accreditation to Institutions that meet their quality standards. This is a global mark of quality that is valued by employers and professional associations within the Engineering Technology field.

The Engineering Technology – Electronics degree program is accredited by The Engineering Technology Accreditation Commission of ABET (ETAC of ABET) www.abet.org.

PORTABLE IoT KIT
You can simulate the Internet of Things (IoT) experience wherever you are. With our portable IoT Kit, you’ll get hands-on experience in how IoT technologies work in the real world. Your kit will include digital devices, sensors and other tools you will use to build relevant IoT systems.

CERTIFICATION EXAM REIMBURSEMENT
We reimburse qualified students up to $300 for the cost of one industry certification exam attempt across a wide range of fields.

1 Not including breaks. Assumes year-round, full-time enrollment. Additional program information may be found at https://www.devry.edu/degree-programs.html.
Bachelor's Degree Program
Engineering Technology - Electronics | Standard Option

ESSENTIALS

COMMUNICATION SKILLS
- ENGL112 Composition
- ENGL135 Advanced Composition
- ENGL216 Technical Writing
- SPCH275 Public Speaking

HUMANITIES
- ETHC23 Ethical and Legal Issues in the Professions
- LAS432 Technology, Society, and Culture

SOCIAL SCIENCES
- ECON312 Principles of Economics
- SOCS185 Culture and Society
- SOCS325 Environmental Sociology

MATHEMATICS AND NATURAL SCIENCES
- ECET345 Signals and Systems with Lab
- MATH114 Algebra for College Students
- MATH190 Pre-Calculus
- MATH221 Statistics for Decision-Making
- MATH265 Applied Calculus
- PHYS204 Applied Physics with Lab

PERSONAL AND PROFESSIONAL DEVELOPMENT
- CARD405 Career Development
- COLL148 Critical Thinking and Problem-Solving

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
- NETW190 Fundamentals of Information Technology and Networking I
- NETW200 Fundamentals of Information Technology and Networking II
- SEC285 Fundamentals of Information Security

PROGRAM

AUTOMATION AND ELECTRONIC SYSTEMS
- ECT222 Circuit Analysis Fundamentals
- ECT225 Electronic Devices and Systems
- ECT284 Automation and Control Systems with Lab

INFORMATION SYSTEMS AND PROGRAMMING
- CIS170C Programming with Lab
- CIS247C Object-Oriented Programming with Lab

APPLICATION DEVELOPMENT
- CIS355A Business Application Programming with Lab

SENIOR PROJECT
- CEIS392 Product, Project, and People Management
- CEIS494 Senior Project I
- CEIS496 Senior Project II

TECHNOLOGY CAREER PREPARATION
- CEIS299 Careers and Technology
- CEIS499 Preparation for the Profession

SPECIALIZED

STANDARD OPTION
- CEIS312 Introduction to Artificial Intelligence and Machine Learning
- ECET310 Communications Systems with Lab
- ECET340 Microprocessor Interfacing with Lab
- ECET350 Signal Processing with Lab
- ECET365 Embedded Microprocessor Systems with Lab
- ECET402 Mechatronics with Lab
- NETW310 Wired, Optical and Wireless Communications with Lab
- REET425 Electric Machines and Power Systems with Lab

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In New York, DeVry University operates as DeVry College of New York. DeVry University is accredited by the Higher Learning Commission (HLC), www.hlcommission.org. Keller Graduate School of Management is included in this accreditation. DeVry is certified to operate by the State Council of Higher Education for Virginia. Arlington Campus: 2450 Crystal Dr., Arlington, VA 22202. DeVry University is authorized for operation as a postsecondary educational institution by the Tennessee Higher Education Commission, www.tn.gov/thec. Nashville Campus: 3343 Perimeter Hill Dr., Nashville, TN 37211. Programs, course requirements and availability vary by location. Some courses may be available online only. All students enrolled in site-based programs will be required to take some coursework online and, for some programs and locations, a substantial portion of the program may be required to be completed online. DeVry's academic catalog, available via devry.edu/catalogs, contains the most current and detailed program information, including admission, progression and graduation requirements. Information contained herein is effective as of date of publishing. ©2019 DeVry Educational Development Corp. All rights reserved. Version 12/9/19