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
- Electro-mechanical Technician
- Electronics Engineering Technician
- Electronics Technologist
- Field Technical Specialist
- Hardware Systems Technologist
- Test Systems Technologist

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 graduation1

3-IN-1
Earn two additional credentials with our unique 3-in-1 design. All courses in our Information Technology (IT) Essentials certificate program and Information Technology and Networking associate degree are embedded in this program. So you can earn a certificate and an associate degree on the way to your bachelor’s degree.

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.

IoT KIT
You can simulate the Internet of Things (IoT) experience wherever you are. With our IoT Kit², you’ll get hands-on experience in how IoT technologies work in the real world. Your kit will include digital devices, sensors and cloud-based 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.
2 The IoT Kit is a required expense and is not complimentary.
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
SOSC185  Culture and Society
SOSC325  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
NETW191  Fundamentals of Information Technology and Networking
NETW211  Fundamentals of Cloud Computing
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

EMBEDDED PROGRAMS
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DEMONSTRATE SKILLS AT EVERY STEP

Visit DeVry.edu  |  Call 888.DeVry.04

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: 1400 Crystal Dr., Ste. 120, 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. ©2020 DeVry Educational Development Corp. All rights reserved. Version 12/28/20