ASSOCIATE DEGREE PROGRAM | TECH - ENGINEERING TECHNOLOGY

INFORMATION TECHNOLOGY & NETWORKING
Specialization: Automation and Electronic Systems

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
Get the opportunity to learn about consumer and industry-based automation, including how to install, operate, test, maintain and troubleshoot electronic equipment systems. These systems can be found in many applications including robotic production lines, transportation networks and power grids.

IS THIS PROGRAM FOR YOU?
If you're interested in technology and want to provide greater quality, safety and control in the production of goods and services, then this might be the right program for you.

CAREER OPPORTUNITIES
Graduates of DeVry’s Information Technology and Networking associate degree program with a specialization in Automation and Electronic Systems may consider, but are not limited to, the following careers:

• Computer Network Support Specialist
• Computer Systems Analyst
• Electro-mechanical Technician
• Electronics Technologist
• Field Technical Specialist

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
• Apply knowledge of math and science principles through programming to solve well-defined technology problems
• Design solutions for technology-driven problems
• Contribute to the design of systems, components and/or processes
• Conduct standard tests, measurements and experiments, and analyze and interpret results.

SPECIALIZED
• Install and upgrade networked computer-controlled systems
• Test and measure electronic systems
• Troubleshoot automation and control systems
• Work with programmable logic controllers as they apply to commercial, motor and industrial control applications

QUICK FACTS

60 CREDIT HOURS
minimum credit hours required for graduation

8% GROWTH
nationally from 2019-2029
for Employment of Computer Support Specialists¹

1 + 4 MONTHS
minimum length to graduation²

EVERY COURSE COUNTS
If you choose to continue on with your education, all credits apply toward a Bachelor’s degree in Engineering Technology - Electronics.³

IoT KIT
You can simulate the Internet of Things (IoT) experience wherever you are. With our IoT Kit⁴, 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 https://www.bls.gov/ooh/computer-and-information-technology/computer-support-specialists.htm. Local growth will vary by location.
² Not including breaks. Assumes year-round, full-time enrollment. Additional program information may be found at https://www.devry.edu/online-programs.html.
³ 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.
⁴ The IoT Kit is a required expense and is not complimentary.

DeVry University
Associate Degree Program

Information Technology & Networking | Automation and Electronic Systems

**ESSENTIALS**

**COMMUNICATION SKILLS**

- ENGL112 Composition 26 CREDIT HOURS
- SPCCH275 Public Speaking

**HUMANITIES**

- ETHC232 Ethical and Legal Issues in the Professions

**SOCIAL SCIENCES**

- SOCS185 Culture and Society

**MATHEMATICS AND NATURAL SCIENCES**

- MATH114 Algebra for College Students 12 CREDIT HOURS
- PHYS204 Applied Physics with Lab

**PERSONAL AND PROFESSIONAL DEVELOPMENT**

- CARD205 Career Development
- COLL148 Critical Thinking and Problem-Solving

**TECH CORE**

**TECH CORE**

- CEIS101 Introduction to Technology and Information Systems 21 CREDIT HOURS
- 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 Systems Security

**PROGRAM**

**CAREER PREPARATION**

- CEIS299 Careers and Technology 1 CREDIT HOUR

**SPECIALIZED**

**AUTOMATION AND ELECTRONIC SYSTEMS**

- ECT222 Circuit Analysis Fundamentals
- ECT225 Electronic Devices and Systems
- ECT284 Automation and Control Systems with Lab

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Demonstrate Skills at Every Step

**ASSOCIATE**

- 23 CREDIT HOURS

**CERTIFICATE**

- 60 CREDIT HOURS

**EMBEDDED PROGRAMS**

DeVry offers a unique 2-in-1 design that allows our Information Technology (IT) Essentials certificate to be embedded within the program. Giving you the chance to earn your certificate on the way to your associate degree.

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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: 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 37221. 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. ©2021 DeVry Educational Development Corp. All rights reserved. Version 2/4/21