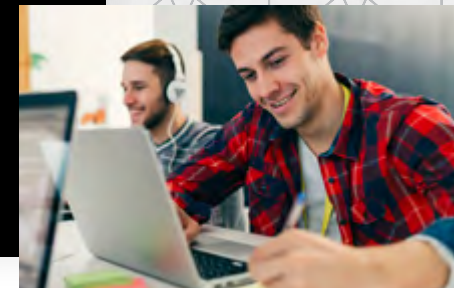


INFORMATION TECHNOLOGY & NETWORKING

Specialization: Automation and Electronic Systems



ABOUT THIS DEGREE PROGRAM

TECH CORE 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
YEAR MONTHS
minimum length to graduation²



EVERY COURSE COUNTS

If you choose to continue on with your education at DeVry, all credits apply toward a Bachelor's degree in Engineering Technology³.



WORK WITH IOT TECHNOLOGIES & SYSTEMS

Immerse yourself in the Internet of Things (IoT) world and obtain hands-on experience with IoT, cloud, software and security technologies and 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.



BE AN ACTIVE PART OF AN INCLUSIVE FUTURE

Customize your curriculum by choosing Diversity, Equity and Inclusion (DE&I) 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.

¹ <https://www.bls.gov/ooh/computer-and-information-technology/computer-support-specialists.htm>. Growth projected on a national level. 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 For the Associate in Information Technology and Networking program with a specialization in Automation and Electronic Systems, every course counts towards the Bachelor's in Engineering Technology program. 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.

Information Technology & Networking | Automation and Electronic Systems

ESSENTIALS

26
CREDIT HOURS

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

SOCS185 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

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 Systems Security

PROGRAM

1
CREDIT HOUR

CAREER PREPARATION

CEIS299 Careers and Technology

SPECIALIZED

12
CREDIT HOURS

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

Demonstrate Skills at Every Step

ASSOCIATE

CERTIFICATE

23
CREDIT
HOURS

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.

visit [DeVry.edu](https://www.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), <https://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, <https://www.tn.gov/thecc>. Nashville Campus: 301 S. Perimeter Park Dr., Ste. 100, 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 <https://www.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 8/26/2021