Associate Degree Program

INFORMATION TECHNOLOGY AND NETWORKING

Specialization: **Automation and Electronic Systems**

TECHNOLOGY
ENGINEERING TECHNOLOGY

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

QUICK FACTS

60
CREDIT HOURS
minimum credit hours required for graduation

11%
GROWTH
nationally from 2016-2026 for Employment of Computer Network Support Specialists[1]

1 + 4
YEAR MONTHS
minimum length to graduation[2]

EVERY COURSE COUNTS

EVERY COURSE COUNTS

If you choose to continue on, all credits apply directly to your bachelor's, saving you time and money.

IoT KIT

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.

UP TO $300

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.

Why did you choose DeVry?

"I wanted to gain the skills needed to help me get a career of my dreams!"

- Sharese R.,
2015 graduate, Computer Information Systems

DeVry University

[1] https://www.bls.gov/ooh/computer-and-information-technology/computer-support-specialists.htm. Data reflects a national projected percentage change in employment from 2016-2026 and may not reflect local economic conditions.
[2] Not including breaks. Assumes year-round, full-time enrollment. Additional program information may be found at https://www.devry.edu/degree-programs.html.

Associate Degree Program

Information Technology and Networking | Automation and Electronic Systems

TECHNOLOGY
ENGINEERING TECHNOLOGY

ESSENTIALS

26 CREDIT HOURS

Communication Skills

ENGL112	Composition
SPCH275	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
PHYS204	Applied Physics with Lab

Personal and Professional Development

CARD205	Career Development
COLL148	Critical Thinking and Problem-Solving

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

PROGRAM

1 CREDIT HOURS

Technology Career Preparation

CEIS299	Careers and Technology

SPECIALIZED

12 CREDIT HOURS

Automation and Electrical Systems (AES)

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

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