

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

TWO
—
IN
—
ONE

DEMONSTRATE SKILLS AT EVERY STEP

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 a certificate on the way to your associate degree.¹

SKILLS
FOCUSED

SKILL FOCUSED CURRICULUM

Elements of our technology curriculum help prepare you to pursue certification opportunities that can validate your knowledge and skills.

- CompTIA A+
- CompTIA ITF+
- CompTIA Network+
- CompTIA Cloud Essentials+
- CompTIA Linux+
- CompTIA Security+

MINIMUM COMPLETION TIME*

1 year
4 months

NORMAL COMPLETION TIME**

2 years

OR

ACCELERATE ON YOUR SCHEDULE

Choose the schedule that best fits your goals and commitments. You can earn your **Associate Degree** in as little as **1 years 4 months**.

Or, follow a normal schedule and complete your program in 2 years.

*Minimum completion time does not include breaks and assumes 3 semesters of year-round, full-time enrollment in 13-17 credit hours a semester per 12-month period.
**Normal completion time includes breaks and assumes 2 semesters of enrollment in 13-17 credit hours per semester per 12-month-period.

¹ Future programmatic changes could impact the ability to earn additional credentials en route to an eligible degree program. Refer to the academic catalog for details.

Information Technology & Networking | Automation and Electronic Systems

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
TECH204 Everyday Physics

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
NETW191 Fundamentals of Information Technology and Networking
NETW212 Introduction to Cloud Computing
SEC285 Fundamentals of Information Systems Security

PROGRAM

1
CREDIT HOUR

CAREER PREPARATION

CEIS298 Introduction to Technical Project Management

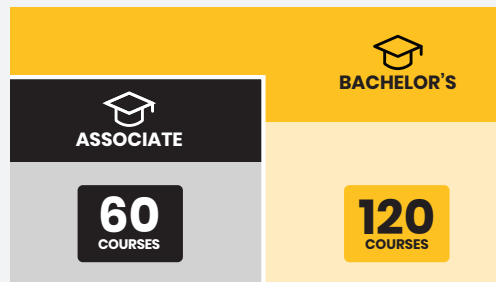
SPECIALIZED

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

EARN A CREDENTIAL AT EVERY STEP



HOW DO CREDENTIALS STACK?

When you earn an Associate Degree in Information Technology and Networking with a specialization in Automation and Electronic Systems, eligible courses completed in the program apply to a Bachelor's Degree in Information Technology.**

Build your confidence – and your resume – when you start your journey at DeVry.

**The figures displayed represent the minimum credit hours required for graduation. Additional coursework may be necessary to complete program requirements. Future programmatic changes could impact the ability to earn additional credentials en route to an eligible degree program. Refer to the academic catalog for details.

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