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 ienterprise 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*		NORMAL COMPLETION TIME**
1 year 4 months	OR	**2 years**

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.

DeVry University

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
TECH204 — Everyday Physics

PERSONAL AND PROFESSIONAL DEVELOPMENT

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

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 course options – denoted by this icon – highlight relevant topics to help empower you to promote an inclusive workplace.

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

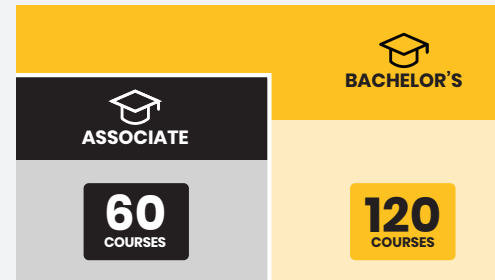### AUTOMATION AND ELECTRONIC SYSTEMS

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

BACHELOR'S

ASSOCIATE

60 COURSES

120 COURSES

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.

DeVry University