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

**EVERY COURSE COUNTS**
If you choose to continue on with your education, all credits apply directly to your bachelor’s, saving you time and money.¹

**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.

**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.

### CREDIT HOURS
60 minimum credit hours required for graduation

### GROWTH
10% nationally from 2018-2028 for Employment of Computer Support Specialists¹

### YEAR + MONTHS
1 + 4 minimum length to graduation²

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¹ [https://www.bls.gov/ooh/computer-and-information-technology/computer-support-specialists.htm](https://www.bls.gov/ooh/computer-and-information-technology/computer-support-specialists.htm)  Data reflects a national projected percentage change in employment from 2018-2028 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](https://www.devry.edu/degree-programs.html). 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.
ESSENTIALS

COMMUNICATION SKILLS
ENGL112 Composition
SPCH275 Public Speaking

HUMANITIES
ETHC232 Ethical and Legal Issues in the Professions

SOCIAL SCIENCES
SOC185 Culture and Society

MATHEMATICS AND NATURAL SCIENCES
MATH114 Algebra for College Students
PHYS204 Applied Physics with Lab

PERSONAL AND PROFESSIONAL DEVELOPMENT
CARD205 Career Development
COL148 Critical Thinking and Problem Solving

TECH CORE

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

TECHNOLOGY CAREER PREPARATION
CEIS299 Careers and Technology

SPECIALIZED

AUTOMATION AND ELECTRICAL SYSTEMS (AES)
ECT222 Circuit Analysis Fundamentals
ECT225 Electronic Devices and Systems
ECT284 Automation and Control Systems with Lab

BUILD SKILLS WITH STACKABLE DEGREES
You don’t have to wait four years to show a credential on your resume. At DeVry, several programs are designed to stack.
• Start with a shorter credential that takes less time so it’s more affordable
• Flexible online and on-site classes build your professional skills right away
• Every course counts toward the next degree level

HOW DO CREDENTIALS STACK?
Here’s an example: When you earn an Associate Degree in Information Technology and Networking with a specialization in Automation and Electronic Systems, every course you completed in the program applies to your Bachelor’s Degree in Electronics Engineering Technology. Build your confidence – and your resume – when you start your journey at DeVry.

1 The figures displayed represent the minimum credit hours required for graduation. Additional coursework may be necessary to complete program requirements. For the AITN program, in the Automation and Electronic Systems specialization every course counts towards the Bachelor’s in Electronics Engineering Technology and Bachelor’s in Engineering Technology: Electronics, in the Network Systems Administration specialization every course counts towards the Bachelor’s in Information Technology and Networking, in the Information Systems and Programming specialization every course counts towards the Bachelor’s in Software Development and the Bachelor’s in Computer Information Systems. 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.