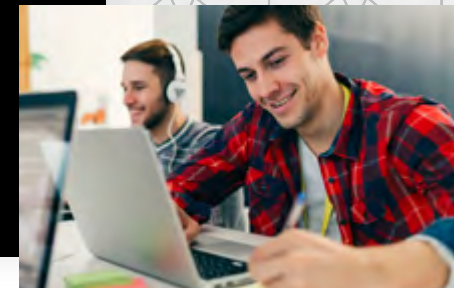# INFORMATION TECHNOLOGY & NETWORKING

Specialization: Network Systems Administration

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

In this specialization, you'll learn network protocols including how to design and secure LAN, VLAN and WAN networks, and how to enable the interface, connection and security of multiple computing systems and software platforms.

IS THIS PROGRAM FOR YOU?

Are you interested in how organizations and businesses are networked, and exchange and secure information? Then you may be interested in this program studying network systems and administration.

CAREER OPPORTUNITIES

Graduates of DeVry's Information Technology and Networking associate degree program with a specialization in Network Systems Administration may consider, but are not limited to, the following careers:

- Computer Network Support Specialist
- Computer Systems Analyst
- Information Technology Specialist
- Local Area Network Administrator
- Network Technical Analyst

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
- Use network protocols, such VoIP
- Design typical LAN, VLAN and WAN networks
- Configure, test and troubleshoot wireless routers and clients
- Identify and mitigate network risk

QUICK FACTS

60
CREDIT HOURS
minimum credit hours required for graduation

8%
GROWTH
nationally from 2019–2029 for Employment of Computer Support Specialists[1]

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

EVERY COURSE COUNTS
If you choose to continue on with your education at DeVry, all credits apply toward a Bachelor's degree in Information Technology and Networking.[3]

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.

DeVry University

www.manaraa.com

Information Technology & Networking | Network Systems Administration

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 HOURS

CAREER PREPARATION

CEIS299 — Careers and Technology

SPECIALIZED

12 CREDIT HOURS

NETWORK SYSTEMS ADMINISTRATION

NETW260 — Intermediate Information Technology and Networking I
NETW270 — Intermediate Information Technology and Networking II
NET310 — Wired, Optical and Wireless Communications with Lab
SEC290 — Fundamentals of Infrastructure Security

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 Networking Essentials certificate to be embedded within the program. Giving you the chance to earn your certificate on the way to your associate degree.

DeVry University

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