

# NETWORKING ESSENTIALS



## ABOUT THIS PROGRAM

### IS THIS PROGRAM FOR YOU

Are you interested in how organizations and businesses are networked to exchange and secure information? Then you may be interested in this Networking Essentials certificate program.

### A PROGRAM TO FUEL YOUR FUTURE

Prepare to develop an understanding of network systems and their application to practical business situations. 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 systems.

## CAREER OPPORTUNITIES

Graduates of DeVry's Networking Essentials certificate program may consider, but are not limited to, the following careers:

*Entry level opportunities in positions, such as:*

- Computer Network Support Technician
- Local Area Network Administrator
- Network Systems Administrator
- Network Technician

## QUICK FACTS

**23**  
CREDIT HOURS  
minimum credit hours  
required for graduation

**8**  
COURSES

**12**  
MONTHS  
minimum length for graduation<sup>1</sup>



### ANCHORED IN TECH CORE

Prepare to be immersed in coursework designed to help you build interdisciplinary skills you'll need for today's Internet of Things (IoT) economy. Project work and activities allow you to develop relevant skills in:

- Connectivity
- Operating Systems



### PORTABLE IOT KIT

You can simulate the Internet of Things (IoT) experience wherever you are. With our portable IoT Kit<sup>2</sup>, you'll get hands-on experience using digital devices, sensors and other tools to build relevant IoT systems.



### INDUSTRY ALIGNED CURRICULUM

Experience curriculum aligned to real-world industry standards and prepare for certification opportunities that help validate your knowledge and skills.

- CompTIA Cloud+
- CompTIA Linux+
- CompTIA Network+
- CCNA



### EVERY COURSE COUNTS

The Networking Essentials certificate can serve as a stepping stone to our Information Technology and Networking associate degree with a specialization in Network Systems Administration or Information Technology and Networking bachelor's degree. If you choose to continue on with your education, all credits apply to these credentials, saving you time and money.

<sup>1</sup> Not including breaks. Assumes year-round, full-time enrollment. Additional program information may be found at <https://www.devry.edu/online-programs.html>.

<sup>2</sup> The Portable IoT Kit is a required expense and is not complimentary.

# Networking Essentials

## PROGRAM OUTLINE

### MATHEMATICS

MATH114 Algebra for College Students

### TECH CORE

CEIS101C Introduction to Technology and Information Systems

CEIS106 Introduction to Operating Systems

NETW191 Fundamentals of Information Technology and Networking

NETW211 Fundamentals of Cloud Computing

### NETWORK SYSTEMS ADMINISTRATION

NETW260 Intermediate Information Technology and Networking I

NETW270 Intermediate Information Technology and Networking II

### CAREER PREPARATION

CEIS299 Careers and Technology

## WHAT YOU'LL LEARN

### MATHEMATICS

- Analyze data
- Solve problems

### 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)

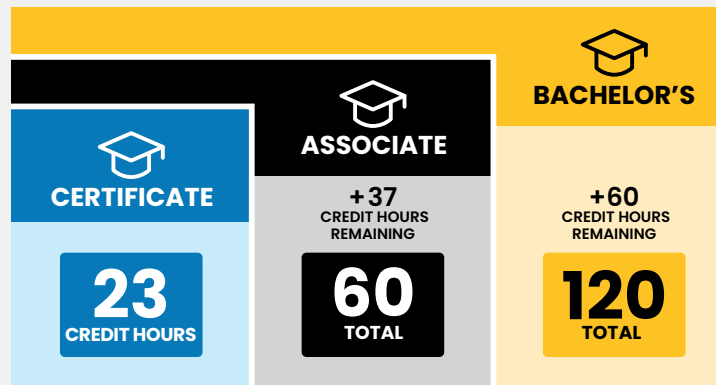
### NETWORK SYSTEMS ADMINISTRATION

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

### CAREER PREPARATION

- Apply principles of technology in the building, testing, operation and maintenance of connected and distributed digital-based systems and networks

## Earn a credential at every step.



\*The figures displayed represent the minimum credit hours required for graduation. 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.

## HOW DO CREDENTIALS STACK?

**Here's an example:** When you earn a Networking Essentials Undergraduate Certificate, all courses you complete in the program apply to your Associate Degree in Information Technology with a specialization in Network Systems Administration. When you complete the associate, all courses stack into our bachelor's in Information Technology and Networking with any specialization. Build your confidence – and your resume – when you start your journey at DeVry<sup>1</sup>.

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In New York, DeVry University operates as DeVry College of New York. DeVry University is accredited by The Higher Learning Commission (HLC), [www.hlcommission.org](http://www.hlcommission.org). Keller Graduate School of Management is included in this accreditation. DeVry is certified to operate by the State Council of Higher Education for Virginia, Arlington Campus: 1400 Crystal Dr., Ste. 120, Arlington, VA 22202. DeVry University is authorized for operation as a postsecondary educational institution by the Tennessee Higher Education Commission, [www.tn.gov/thec](http://www.tn.gov/thec). Nashville Campus: 3343 Perimeter Hill Dr., Nashville, TN 37211. Unresolved complaints may be reported to the Illinois Board of Higher Education through the online complaint system <http://complaints.ibhe.org/> or by mail to 1 N. Old State Capitol Plaza, Ste. 333, Springfield, IL 62701-1377. Program availability varies by location. In site-based programs, students will be required to take a substantial amount of coursework online to complete their program. ©2020 DeVry Educational Development Corp. All rights reserved. 9/14/20