

# CYBERSECURITY AND NETWORKING



## ABOUT THIS PROGRAM

### IS THIS PROGRAM FOR YOU?

If you are interested in an Information Technology (IT) career field exploring how technology is used to identify vulnerabilities in networks, software and devices, and how to protect them from a cyberattack, then this may be the right program for you.

### A PROGRAM TO FUEL YOUR FUTURE

DeVry University's Associate of Science in Cybersecurity and Networking program can help prepare you to develop with the skills necessary to implement, maintain and enhance the network security and efficiency of an organization.

## CAREER OPPORTUNITIES

Graduates of DeVry's Cybersecurity and Networking associate degree program may consider, but are not limited to, the following careers:

- Computer Network Support Specialists
- Information Security Analysts

## 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 Internet of Things (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)

### SPECIALIZED

- Apply behavioral analytics to networks and devices to prevent, detect, and counter cybersecurity threats through continuous security monitoring
- Develop a balanced perspective on the administrative and technological elements of information security
- Apply principles of technology in the building, testing, operation and maintenance of connected and distributed digital-based systems and networks

## QUICK FACTS

**62**  
CREDIT HOURS  
minimum credit hours  
required for graduation

**20**  
COURSES

**1 + 4**  
YEAR MONTHS  
minimum length to graduation<sup>1</sup>

**TWO**  
IN  
**ONE**

### 2-IN-1

When students enroll in the Associate in Cybersecurity and Networking program, they will earn the IT Essentials certificate along the way.

**IoT**  
PROJECTS

### IoT PROJECTS

Immerse yourself in the Internet of Things (IoT) world and obtain hands-on experience with IoT, cloud, software and security technologies and systems.

**EVERY**  
COURSE  
COUNTS

### EVERY COURSE COUNTS

When choosing the cybersecurity learning pathway, all credits earned in the Cyber Security Certificate are designed to stack into the Associate in Cybersecurity and Networking. After earning your associate degree, every course applies toward the Bachelor's Degree in Information Technology and Networking with a specialization in Cyber Security.<sup>2</sup>

**SKILLS**  
FOCUSED

### SKILL FOCUSED CURRICULUM

Experience elements of our technology curriculum focused on real-world industry standards and prepare for certification opportunities that help validate your knowledge and skills.

- CompTIA A+
- CompTIA ITF+
- CompTIA Linux+
- CompTIA Network+
- CompTIA Cloud+
- CompTIA Security+
- CompTIA CySA+
- EC-Council CEH
- CompTIA PenTest+
- (ISC)<sup>2</sup> CCSP

<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> For the Associate in Cybersecurity and Networking program, every course counts toward the Bachelor's in Information Technology and Networking program with a specialization in Cyber Security. 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.

# Cybersecurity and Networking

## 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

**15**  
CREDIT HOURS

### CYBERSECURITY

SEC290 Fundamentals of Infrastructure Security

SEC310 Principles and Theory of Security Management

*Select one*

SEC311 Ethical Hacking

SEC321 Network Security Testing with Lab

*Select one*

SEC340 Business Continuity

SEC360 Data Privacy and Security

SEC380 Cloud Computing Security

### CAREER PREPARATION

CEIS299 Careers and Technology

### Demonstrate Skills at Every Step

**ASSOCIATE**

**CERTIFICATE**

**23**  
CREDIT  
HOURS

**62**  
CREDIT  
HOURS

### EMBEDDED PROGRAMS

DeVry offers a unique 2-in-1 design that allows our Information Technology (IT) Essentials certificate to be embedded within this program. Giving you the chance to earn your certificate on the way to your associate degree.

The figures displayed represent the minimum credit hours required for graduation. Additional coursework may be necessary to complete program requirements.

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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), <https://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, <https://www.tn.gov/thecc>. Nashville Campus: 301 S. Perimeter Park Dr., Ste. 100, Nashville, TN 37211. Programs, course requirements and availability vary by location. Some courses may be available online only. All students enrolled in site-based programs will be required to take some coursework online and, for some programs and locations, a substantial portion of the program may be required to be completed online. DeVry's academic catalog, available via <https://www.devry.edu/catalogs>, contains the most current and detailed program information, including admission, progression and graduation requirements. Information contained herein is effective as of date of publishing. ©2022 DeVry Educational Development Corp. All rights reserved. Version 9/1/2022