

# CYBERSECURITY AND NETWORKING



## ABOUT THIS 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

Our Cyber Security Associate Degree teaches the technical and professional skills sought out and needed by modern employers. The combination of these skills works together to prepare learners to become well-rounded contributors in the workplace.

#### 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 this program. Giving you the chance to earn your certificate on the way to your associate degree.

## 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\*

\*may require additional years of experience

## 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

**21**  
COURSES

**32%**  
GROWTH  
nationally from 2022-2032 for  
employment of Information  
Security Analysts<sup>1</sup>

**NICCS™**  
NATIONAL INITIATIVE FOR CYBERSECURITY CAREERS AND STUDIES

### NICCS VERIFIED CURRICULUM

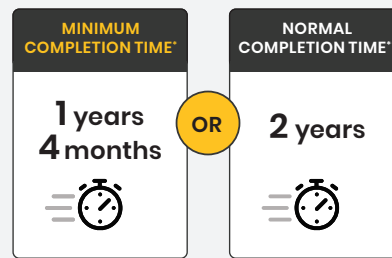
DeVry University's cybersecurity curriculum is acknowledged and verified as an approved provider by the National Initiative for Cybersecurity Careers and Studies (NICCS). NICCS is an online training initiative and portal that follows the National Initiative for Cybersecurity Education framework and connects students, educators and industry to cybersecurity resources and U.S. training providers.

### 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 ITF+
- CompTIA Linux+
- CompTIA Network+
- CompTIA Cloud+
- CompTIA Project+
- CompTIA CySA+
- EC-Council CEH
- CompTIA PenTest+
- (ISC)² CCSP



### ACCELERATE AT YOUR PACE

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.

\*Per 12-month period, assumes completion of 3 semesters, enrollment in 13-17 credit hours per semester and continuous, full-time year-round enrollment with no breaks.

\*\*Per 12-month period, assumes completion of 2 semesters and full-time enrollment in 13-17 credit hours per semester.

<sup>1</sup><https://www.bls.gov/ooh/computer-and-information-technology/information-security-analysts.htm> Growth projected on a national level. Local growth will vary by location. BLS projections are not specific to DeVry University students or graduates and may include earners at all stages of their career and not just entry level.

# 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



#### 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

NETW211 Fundamentals of Cloud Computing

SEC285 Fundamentals of Information Systems Security

## PROGRAM

**15**  
CREDIT HOURS

### CYBERSECURITY

SEC290 Fundamentals of Infrastructure Security

SEC395 Cybersecurity Architecture and Engineering

SEC399 Cybersecurity Career Preparation

*Select one*

SEC311 Ethical Hacking

SEC322 Penetration Testing

*Select one*

SEC305 Cybersecurity and Data Privacy

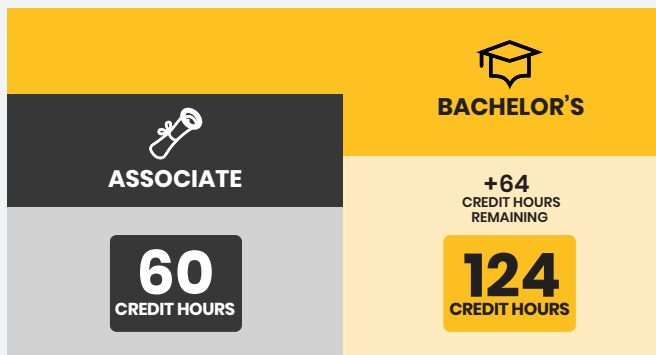
SEC340 Business Continuity

SEC380 Cloud Computing Security

### CAREER PREPARATION

CEIS298 Introduction to Technical Project Management

### Earn a Credential at Every Step



#### HOW DO CREDENTIAL STACK? HERE'S AN EXAMPLE

When you earn the Cybersecurity and Networking associate degree, all courses you complete in the program apply to our Cybersecurity and Networking bachelor's degree program. Build your confidence – and your resume – when you start your journey at DeVry.

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.

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