

# CYBER SECURITY



## ABOUT THIS PROGRAM

### IS THIS PROGRAM FOR YOU?

If you're interested in pursuing a career in cybersecurity and defending organizations from malicious attacks, then this program may be for you.

### A PROGRAM TO FUEL YOUR FUTURE

Prepare to develop the critical skills needed to defend organizations and government agencies from data breaches with this certificate program. Through online simulations and assignments, you will create strategies necessary to secure networks, apply information assurance policies to mitigate risks and leverage your knowledge of ethical and legal issues to apply the appropriate security solutions.

## CAREER OPPORTUNITIES

Graduates of [DeVry's Cyber Security certificate program](#) may consider, but are not limited to, the following careers:

*Entry level opportunities in such positions as:*

- Network System Administrator
- Information Security Analyst
- Cyber Security Analyst
- Computer User Support Specialist

## QUICK FACTS

**40**  
CREDIT HOURS  
minimum credit hours  
required for graduation

**14**  
COURSES

**31%**  
GROWTH  
nationally from 2019-2029 for  
employment of Information  
Security Analysts<sup>1</sup>

**1 + 4**  
YEAR MONTHS  
minimum length for graduation<sup>2</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:

- Programming
- Hardware
- Connectivity
- Security
- Operating Systems



### 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 ALIGNED 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 Linux+
- CompTIA Network+
- CompTIA Cloud+
- CompTIA Security+
- CompTIA PenTest+
- EC Council Certified Network Defender
- EC Council Certified Ethical Hacker
- PCEP – Certified Entry-Level Python Programmer



### EVERY COURSE COUNTS

The Cyber Security certificate can serve as a stepping stone to our Information Technology and Networking or Computer Information Systems bachelor's degrees when you specialize in cyber security. If you choose to continue on with your education, all credits apply to your bachelor's degree, saving you time and money.

<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.

<sup>2</sup> Not including breaks. Assumes year-round, full-time enrollment. Additional program information may be found at <https://www.devry.edu/online-programs.html>.

## PROGRAM OUTLINE

### MATHEMATICS

MATH114 Algebra for College Students

### TECH CORE

CEIS101C Introduction to Technology and Information Systems  
CEIS106 Introduction to Operating Systems  
CEIS110 Introduction to Programming  
CEIS114 Introduction Digital Devices  
NETW191 Fundamentals of Information Technology & Networking  
NETW211 Fundamentals of Cloud Computing  
SEC285 Fundamentals of Information Security

### CYBER SECURITY

SEC290 Fundamentals of Infrastructure Security  
SEC310 Principles and Theory of Security Management  
SEC311 Ethical Hacking  
SEC321 Network Security Testing with Lab

### CAREER PREPARATION

CEIS299 Careers and Technology  
CEIS499 Preparation for the Profession

## 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)

### CYBER SECURITY

- Create strategies to secure networks, mitigate risks and protect information assets
- Implement, validate and update security infrastructure and measures
- Apply and manage information assurance policies, while upholding ethical, legal and regulatory guidelines

### CAREER PREPARATION

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

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