

CYBER SECURITY



ABOUT THIS PROGRAM



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

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 develop the skills 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:

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

QUICK FACTS

40
CREDIT HOURS
minimum credit hours
required for graduation

14
COURSES

32%
GROWTH
nationally from 2022-2032 for
employment of Information
Security Analysts¹



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.

EVERY COURSE COUNTS

The Cyber Security certificate can serve as a stepping stone to the Associate of Cybersecurity and Networking and/or the Bachelor's of Cybersecurity and Networking. If you choose to continue on with your education, all credits apply to your associate and/or bachelor's degree.²



MINIMUM COMPLETION TIME*

1 year 2 months



NORMAL COMPLETION TIME

1 year 6 months

ACCELERATE AT YOUR PACE

Choose the schedule that best fits your goals and commitments. You can earn your **Undergraduate Certificate** in as few as **1 year 2 months**. Or, follow a normal schedule and complete your program in 1 year 6 months.

^{*}Minimum completion time does not include breaks and assumes 3 semesters of year-round, full-time enrollment in 8-13 credit hours a semester per 12-month period.

^{**}Normal completion time includes breaks and assumes 2 semesters of enrollment in 8-13 credit hours per semester per 12-month period.

¹<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.

²Future programmatic changes could impact the application of credits to a future program. Refer to the academic catalog for details.

Cyber Security

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
 NETW212 Introduction to Cloud Computing
 SEC285 Fundamentals of Information System Security

CYBER SECURITY

SEC290 Fundamentals of Infrastructure Security
 SEC395 Cybersecurity Architecture and Engineering
 SEC399 Cybersecurity Career Preparation

One of:

SEC311 Ethical Hacking
 SEC322 Penetration Testing

One of:

SEC305 Cybersecurity and Data Privacy
 SEC340 Business Continuity
 SEC380 Cloud Computing Security

CAREER PREPARATION

CEIS298 Introduction to Technical Project Management

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

- 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

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.

HOW DO CREDENTIALS STACK?

Here's an example: When you earn a Cyber Security Undergraduate Certificate, all courses you complete in the program apply to your Associate Degree in Cybersecurity and Networking. When you complete the associate, all courses are designed to stack into our Bachelor's in Cybersecurity and Networking. Build your confidence - and your resume - when you start your journey at DeVry.³

³The figures displayed represent the minimum credit hours required for graduation. Additional coursework may be necessary to complete program requirements. 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. Future programmatic changes could impact the application of credits to a future program. Refer to the academic catalog for details.

RECOMMENDED PLAN OF STUDY

DeVry's Cyber Security Certificate program is designed to prepare you with the knowledge and skills needed to pursue up to 8 external industry-specific certifications* within 14 months, should you choose to seek professional certification or licensure exams. Our recommended course sequencing fosters the development of these skills early on and throughout the entire program.

SEMESTER 1		SEMESTER 2		SEMESTER 3		SEMESTER 4		TOTAL: 40 CREDIT HOURS 3.5 SEMESTERS 14 MONTHS
COURSE	CREDITS	COURSE	CREDITS	COURSE	CREDITS	COURSE	CREDITS	
CEIS101C	2	CEIS106	4	CEIS114	3	SEC290	3	
MATH114	4	CEIS110	3	NETW191	3	SEC395	3	
TOTAL	6	TOTAL	7	TOTAL	6	TOTAL	7	
8 WEEKS		8 WEEKS		8 WEEKS		8 WEEKS		
2 MONTHS		2 MONTHS		2 MONTHS		2 MONTHS		
0-4 MONTHS		5-10 MONTHS				11-14 MONTHS		
ALIGNED CERTIFICATIONS		ALIGNED CERTIFICATIONS				ALIGNED CERTIFICATIONS		
CompTIA Linux+ Certified Entry-Level Python Programmer		CompTIA A+ CompTIA Network+ CompTIA Project+ CompTIA Cloud Essentials + CompTIA Security+				EC-Council Certified Ethical Hacker CompTIA CySA+ CompTIA PenTest+ (ISC)2 CCSP		
<ul style="list-style-type: none"> • Internet of Things (IoT) concepts including the interplay between people, places, data and devices (P2D2) • Investigate how to configure a network using the Linux operating system • Use Python programming to build apps and application frameworks 		<ul style="list-style-type: none"> • Set up a small network in a virtual environment and test the connectivity • Apply cloud-centric access control and security techniques • Provision resources for a small network on a cloud platform • Utilize security technology and tools to migrate cybersecurity threats 				<ul style="list-style-type: none"> • Leverage intelligence and threat detection techniques to identify vulnerabilities • Understand the regulations, contingencies and risk management of information security • Utilize appropriate tools and techniques to perform vulnerability scanning and penetration testing • Implement and manage security operations for cloud environments 		

*Credits and degrees earned from DeVry do not automatically qualify the holder to participate in professional certification or licensure exams. DeVry does not pay or reimburse students enrolled in this program for the cost associated with these external certifications and does not guarantee students will successfully pass such exams.

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