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 <u>DeVry's Cyber Security certificate program</u> 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

OUICK FACTS

40 CREDIT HOURS

minimum credit hours required for graduation

14 COURSES **32%** GROWTH

nationally from 2022-2032 for employment of Information Security Analysts¹



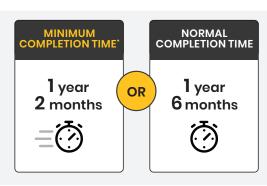
NICCS VERIFIED CURRICULUM

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 bachelor's degree.²



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.

*Per 12-month period, assumes completion of 3 semesters, enrollment in 9-12 credit hours per semester and continuous, year-round enrollment with no breaks.

**Per 12-month period, assumes completion of 2 semesters and enrollment in 8-13 credit hours per semester.



¹https://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.

²The 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.

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
NETW211	Fundamentals of 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



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

 $^{\rm 3}\text{The}$ 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.



Cyber Security

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.

SEME	STER 1	
CREDITS	COURSE	CREDITS
2	CEIS106	4
4	CEIS110	3
6	TOTAL	7
EEKS	8 V	VEEKS
NTHS	2 M	ONTHS
	CREDITS 2 4 6	2 CEIS106 4 CEIS110 6 TOTAL EEKS 8 V

SEMESTER 2				
COURSE	CREDITS		COURSE	CREDITS
CEIS114	3		NETW211	3
NETW191	3		CEIS298	1
TOTAL	6		TOTAL	4
	ZEEKS ONTHS			EEKS ONTHS

COURSE	CREDITS
SEC285	3
TOTAL	3
8 W	EEKS
2 MC	ONTHS

s	COURSE	CREDITS
	SEC290	3
	SEC395	3
_	SEC399	1
	TOTAL	7
		EEKS ONTHS

SEMESTER 3

COURSE	CREDITS
SEC311*	3
SEC340*	4
TOTAL	7
	EEKS

SEMESTER 4

TOTAL:
40 CREDIT HOURS
3.5 SEMESTERS
14 MONTHS

0-4 MONTHS

ALIGNED CERTIFICATIONS

CompTIA Linux+ | Certified Entry-Level
Python Programmer

- 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

5-10 MONTHS

ALIGNED CERTIFICATIONS

CompTIA A+ | CompTIA Network+ | CompTIA Project+

CompTIA Cloud+ | CompTIA Security+

- 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

11-14 MONTHS

ALIGNED CERTIFICATIONS
EC-Council Certified Ethical Hacker
CompTIA CySA+ | CompTIA PenTest+ | (ISC)2 CCSP

- 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

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^{*}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.