#### UNDERGRADUATE CERTIFICATE | TECH

# **CYBER SECURITY**

#### **ABOUT THIS PROGRAM**

## **TECH** CORE

#### **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:

Security

- Programming Hardware Operating Systems
  - Connectivity

## **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

#### **OUICK FACTS**

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

RSECURITY CAREERS AND STUDIES

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

## 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**

14

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.<sup>2</sup>

MINIMUM	NORMAL	<b>A</b>
COMPLETION TIME	COMPLETION TIME	C
1 year 2 months = 💮	DR 1 year 6 months	g U 1 So 1 *M se se ** en

#### ACCELERATE AT YOUR PACE

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

Minimum completion time does not include breaks and assumes 3 emesters of year-round, full-time enrollment in 8-13 credit hours a emester per 12-month period.

\*Normal completion time includes breaks and assumes 2 semesters of nrollment in 8-13 credit hours per semester per 12-month period.



<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.

<sup>2</sup>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
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)

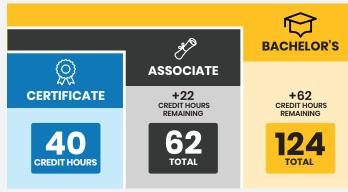
#### CYBER SECURITY

- 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.<sup>3</sup>

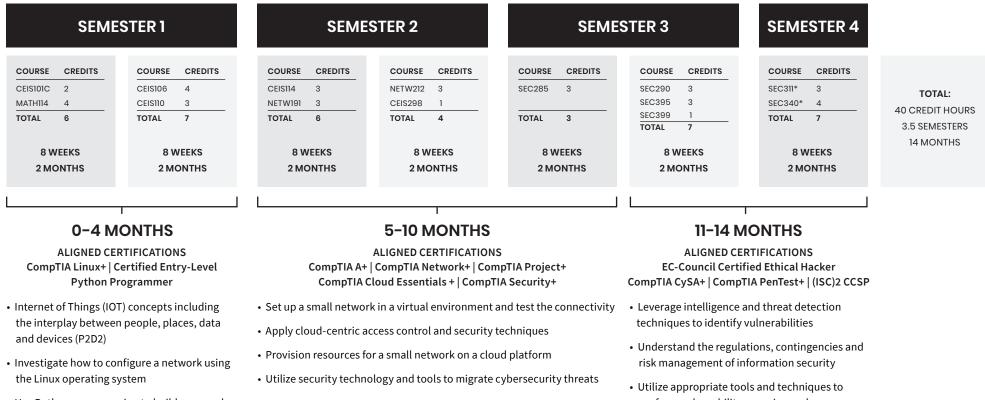
<sup>3</sup>The figures displayed represent the minimum credit hours required for graduation. Additional coursework may be necessary to complete program requirements. At the time of application to the next credential level, an evaluation of qualifying transfer credit will occur and the most beneficial 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.



 Use Python programming to build apps and application frameworks

- 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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In New York, DeVry University operates as DeVry College of New York. DeVry University is accredited by The Higher Learning Commission (HLC), www.hlcommission.org. The University's 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 <u>Tennessee Higher Education Commission</u>, www.tn.gov/thec. Lisle Campus: 4225 Naperville Rd., Ste. 400, Lisle, IL 60532. Unresolved complaints may be reported to the Illinois Board of Higher Education through the online compliant system https://complaints.ibhe.org/ or by mail to 1 N. Old State Capitol Plaza, Ste. 333, Springfield, IL 6270-11377. Program availability varies by location. In site-based programs, students will be required to take a substantial amount of coursework online to complete their program. ©2024 DeVry Educational Development Corp. All rights reserved. Version 5/13/2024

