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.

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

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

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 Information Technology and Networking when you specialize in Cyber Security. If you choose to continue on with your education, all credits apply to your bachelor’s degree.

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40 CREDIT HOURS
minimum credit hours required for graduation

14 COURSES

35% GROWTH
nationally from 2021-2031 for employment of Information Security Analysts

ANNUAL SALARY

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.

*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.
## 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

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### Earn a Credential at Every Step

<table>
<thead>
<tr>
<th>Certificate</th>
<th>Associate</th>
<th>Bachelor’s</th>
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<tbody>
<tr>
<td><strong>40 Credit Hours Remaining</strong></td>
<td><strong>+22 Credit Hours Remaining</strong></td>
<td><strong>+58 Credit Hours Remaining</strong></td>
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<td><strong>62 Total</strong></td>
<td><strong>120 Total</strong></td>
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</tbody>
</table>

### 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 Information Technology and Networking with a specialization in Cyber Security. Build your confidence - and your resume - when you start your journey at DeVry.¹

¹The 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.
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**

<table>
<thead>
<tr>
<th>COURSE</th>
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<tr>
<td>CEIS110</td>
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8 WEEKS 2 MONTHS

**SEMESTER 2**

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<td>NETW191</td>
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8 WEEKS 2 MONTHS

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8 WEEKS 2 MONTHS

**SEMESTER 3**

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8 WEEKS 2 MONTHS

**SEMESTER 4**

<table>
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<tr>
<td>SEC340*</td>
<td>4</td>
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<td><strong>TOTAL</strong></td>
<td><strong>7</strong></td>
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</tbody>
</table>

8 WEEKS 2 MONTHS

**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

*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.

visit DeVry.edu | Call 888.DeVry.04

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 Tennessee Higher Education Commission, www.tn.gov/thec. Naperville Campus: 1200 E. Diehl Rd., Naperville, IL 60563. Unresolved complaints may be reported to the Illinois Board of Higher Education through the online compliant system http://complaints.ibhe.org/ or by mail to 1 N. Old State Capitol Plaza, Ste. 333, Springfield, IL 62701-1377. 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. ©2023 DeVry Educational Development Corp. All rights reserved. Version 7/25/2023