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

40 CREDIT HOURS
minimum credit hours required for graduation

13 COURSES

35% GROWTH
nationally from 2021-2031 for employment of Information Security Analysts1

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.

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 three semesters with no breaks through continuous, year-round enrollment in the required number of credit hours per semester, which varies by program. See catalog for details.

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.
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

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
SEC310 Principles and Theory of Security Management

One of:
SEC311 Ethical Hacking
SEC321 Network Security Testing with Lab

One of:
SEC340 Business Continuity
SEC360 Data Privacy and Security
SEC380 Cloud Computing Security

CAREER PREPARATION
CEIS299 Careers and Technology

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.

The 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.

visit DeVry.edu | Call 888.DeVry.04
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.

### RECOMMENDED PLAN OF STUDY

<table>
<thead>
<tr>
<th>SEMESTER 1</th>
<th>COURSE</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEIS100C</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>MATH114</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

**8 WEEKS**  **2 MONTHS**

<table>
<thead>
<tr>
<th>SEMESTER 2</th>
<th>COURSE</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEIS114</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>NETW111</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

**8 WEEKS**  **2 MONTHS**

<table>
<thead>
<tr>
<th>SEMESTER 3</th>
<th>COURSE</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEC285</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SEC310</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>7</td>
<td></td>
</tr>
</tbody>
</table>

**8 WEEKS**  **2 MONTHS**

<table>
<thead>
<tr>
<th>SEMESTER 4</th>
<th>COURSE</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEC311*</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SEC340*</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>7</td>
<td></td>
</tr>
</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 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

©2023 DeVry Educational Development Corp. All rights reserved. Version 6/21/2023