CYBERSECURITY AND NETWORKING



ABOUT THIS PROGRAM

TECH CORE

A FOUNDATION IN TECHNOLOGY

This program is anchored with Tech Core, curriculum designed to help you build a foundation of interdisciplinary

skills you'll need for today's Internet of Things (IoT) economy. You'll learn relevant skills in operating systems, programming, hardware, connectivity and security – giving you a hands-on foundation in engineering technology, information technology and software and information systems.

A PROGRAM TO FUEL YOUR FUTURE

Our Cyber Security Associate Degree teaches the technical and professionals skills sought out and needed by modern employers. The combination of these skills works together to prepare learners to become well-rounded contributors in the workplace.

DEMONSTRATE SKILLS AT EVERY STEP

DeVry offers a unique 2-in-1 design that allows our Information Technology (IT) Essentials certificate to be embedded within this program. Giving you the chance to earn your certificate on the way to your associate degree.

CAREER OPPORTUNITIES

Graduates of DeVry's Cybersecurity and Networking associate degree program may consider, but are not limited to, the following careers:

- Computer Network Support Specialists
- Information Security Analysts*

*may require additional years of experience

WHAT YOU'LL LEARN

ESSENTIALS

- Communicate methods and findings
- Collaborate in dynamic work environments
- Solve complex problems
- Analyze numerical data
- Apply appropriate technologies

TECH CORE

- Produce, secure, operate and troubleshoot small enterprise networks
- Network, secure and deploy digital devices and sensors into the Internet of Things (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)

SPECIALIZED

- 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

QUICK FACTS

62
CREDIT HOURS

minimum credit hours required for graduation

21 COURSES

32%

GROWTH

nationally from 2022-2032 for employment of Information Security Analysts¹

NICCS™

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.

SKILLS FOCUSED

SKILL FOCUSED CURRICULUM

Experience elements of our technology curriculum focused on real-world industry standards and prepare for certification opportunities that help validate your knowledge and skills.

- CompTIA ITF+
- CompTIA Linux+
- CompTIA Linux
 CompTIA Network+
- CompTIA Cloud+
- d+ EC-Council CEH
- CompTIA Project+
- CompTIA PenTest+



ACCELERATE AT YOUR PACE

Choose the schedule that best fits your goals and commitments. You can earn your **Associate Degree** in as little as **1 years 4 months**. Or, follow a normal schedule and complete your program in 2 years.

*Per 12-month period, assumes completion of 3 semesters, enrollment in 13-17 credit hours per semester and continuous, full-time year-round enrollment with no breaks

**Per 12-month period, assumes completion of 2 semesters and full-time enrollment in 13-17 credit hours per semester.



Cybersecurity and Networking

ESSENTIALS

26 **CREDIT HOURS**

COMMUNICATION SKILLS

ENGL112 Composition

Select one

SPCH275 **Public Speaking**

SPCH276 Intercultural Communication 🕏

HUMANITIES

Select one

ETHC232 Ethical and Legal Issues in the Professions

ETHC334 Diversity, Equity and Inclusion in the Workplace 🕏

SOCIAL SCIENCES

SOCS185 Culture and Society ®

MATHEMATICS AND NATURAL SCIENCES

MATH114 Algebra for College Students PHYS204 Applied Physics with Lab

PERSONAL AND PROFESSIONAL DEVELOPMENT

CARD205 Career Development

COLL148 Critical Thinking and Problem-Solving

BE AN ACTIVE PART OF AN INCLUSIVE FUTURE



Customize your curriculum by choosing Diversity, Equity and Inclusion (DE&I) course alternates for your Communication Skills, Humanities and Social Science courses. These course options denoted by this icon - highlight relevant topics to help empower you to promote an inclusive workplace.

TECH CORE

CREDIT HOURS

TECH CORE

CEIS101 Introduction to Technology and Information

Systems

CEIS106 Introduction to Operating Systems

CEIS110 Introduction to Programming Introduction to Digital Devices CEIS114

NETW191 Fundamentals of Information Technology

and Networking

NETW211 **Fundamentals of Cloud Computing**

Fundamentals of Information Systems Security SEC285

PROGRAM

CREDIT HOURS

CYBERSECURITY

SEC290 Fundamentals of Infrastructure Security

SEC395 Cybersecurity Architecture and Engineering

SEC399 Cybersecurity Career Preparation

Select one

SEC311 **Ethical Hacking** SEC322 **Penetration Testing**

Select one

SEC305 Cybersecurity and Data Privacy

SEC340 **Business Continuity**

SEC380 **Cloud Computing Security**

CAREER PREPARATION

CEIS298 Introduction to Technical Project Management

Earn a Credential at Every Step



HOW DO CREDENTIAL STACK? HERE'S AN EXAMPLE

When you earn the Cybersecurity and Networking associate degree, all courses you complete in the program apply to our Cybersecurity and Networking bachelor's degree program. 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.

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Cybersecurity and Networking

RECOMMENDED PLAN OF STUDY

DeVry's Associate in Cybersecurity and Networking degree program is designed to prepare you with the knowledge and skills needed to pursue up to 11-13 external industry-specific certifications* within 1 year 4 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	
COURSE CREDITS ENGLI12 4 SOCS185 3 COULI48 3 MATHI14 4 TOTAL 7 8 WEEKS 8 WEEKS 2 MONTHS 2 MONTHS	COURSE CREDITS CEIS106 4 CEIS110 3 NETW191 3 SPCH276 3 TOTAL 7 8 WEEKS 8 WEEKS 2 MONTHS 2 MONTHS	COURSE CREDITS COURSE CREDITS ETHC334 3 CEIS298 1 NETW2II 3 SEC3II* 3 SEC285 3 SEC290 3 TOTAL 9 TOTAL 7 8 WEEKS 8 WEEKS 2 MONTHS 2 MONTHS	COURSE CREDITS CARD205 2 PHYS204 4 SEC395 3 TOTAL 9 8 WEEKS 8 WEEKS 2 MONTHS 2 MONTHS	TOTAL: 62 CREDIT HOURS 4 SEMESTERS 1 YEAR, 4 MONTHS MINIMUM

0-4 MONTHS

ALIGNED CERTIFICATIONS CompTIA IT Fundamentals

 Illustrate the basics of computing and explain the value of data and troubleshooting

5-8 MONTHS

ALIGNED CERTIFICATIONS
CompTIA Linux+|PCEP Certified Entry-Level
Python Programmer| CompTIA A+|
CompTIA Network+

- Install and configure operating systems using Command Line Interface (CLI)
- Solve technical problems using an algorithmic approach and basic programming and coding methods
- Network, secure, and deploy digital devices and sensors into the internet of things ecosystem
- Produce, secure, operate and troubleshoot a small enterprise networks

9-12 MONTHS

ALIGNED CERTIFICATIONS
CompTIA Cloud+| CompTIA Security+|
CompTIA Project+| CEH| CompTIA CySa+

- Troubleshoot and secure cloud-based IT systems
- Utilize security technology and tools to mitigate cybersecurity threats
- Maintain network security by leveraging an attacker's knowledge on exploiting vulnerabilities
- Apply behavioral analytics to networks and devices to prevent, detect, and counter cybersecurity threats through continuous security monitoring

11-16 MONTHS

ALIGNED CERTIFICATIONS
CompTIA CASP+| IRBIZ| SSCP

- Apply cybersecurity skills needed to secure in-house, cloud-centric and hybrid IT environments
- Plan and implement incidence response, disaster recovery, business continuity, and crisis management
- Implement, monitor and administer IT infrastructure using cybersecurity best practices

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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.