

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 professional 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*
- Computer Systems Analyst
- Cybersecurity Specialist
- Incident and Intrusion Analyst

*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™
NATIONAL INITIATIVE FOR CYBERSECURITY CAREERS AND STUDIES

NICCS VERIFIED CURRICULUM

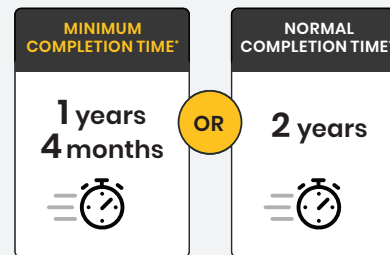
DeVry University's cybersecurity curriculum is acknowledged and verified as an approved provider by the National Initiative for Cybersecurity Careers and Studies (NICCS). NICCS is an online training initiative and portal that follows the National Initiative for Cybersecurity Education framework and connects 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 Network+
- CompTIA Cloud Essentials+
- CompTIA Project+
- CompTIA CySA+
- EC-Council CEH
- CompTIA PenTest+
- (ISC)² CCSP



ACCELERATE ON YOUR SCHEDULE

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.

*Minimum completion time does not include breaks and assumes 3 semesters of year-round, full-time enrollment in 13-17 credit hours a semester per 12-month period.

**Normal completion time includes breaks and assumes 2 semesters of enrollment in 13-17 credit hours per semester per 12-month-period.

¹<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.

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


TECH204 Everyday Physics

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

21
CREDIT HOURS

TECH CORE

CEIS101 Introduction to Technology and Information Systems

CEIS106 Introduction to Operating Systems

CEIS110 Introduction to Programming

CEIS114 Introduction to Digital Devices

NETW191 Fundamentals of Information Technology and Networking

NETW212 Introduction to Cloud Computing

SEC285 Fundamentals of Information Systems Security

PROGRAM

15
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

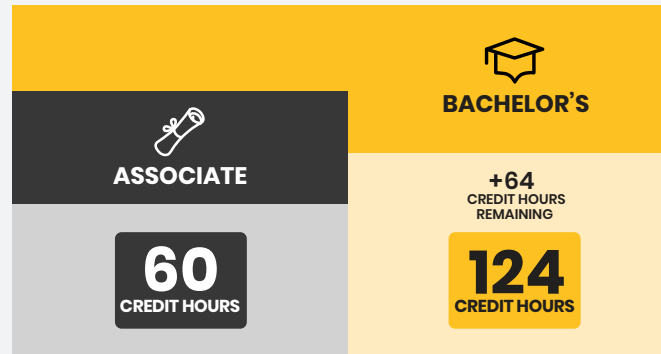
SEC340 Business Continuity

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. Additional coursework may be necessary to complete program requirements. Future programmatic changes could impact the ability to earn additional credentials en route to an eligible degree program. Refer to the academic catalog for details.

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		TOTAL: 62 CREDIT HOURS 4 SEMESTERS 1 YEAR, 4 MONTHS MINIMUM	
COURSE	CREDITS	COURSE	CREDITS	COURSE	CREDITS	COURSE	CREDITS		
ENGL112	4	CEIS101	2	CEIS106	4	ETHC334	3		
SOCS185	3	COLL148	3	CEIS110	3	NETW211	3		
		MATH114	4			SEC285	3		
TOTAL	7	TOTAL	9	TOTAL	7	TOTAL	9		
								SEC340*	4
								SEC399	1
8 WEEKS 2 MONTHS		8 WEEKS 2 MONTHS		8 WEEKS 2 MONTHS		8 WEEKS 2 MONTHS		TOTAL	5
8 WEEKS 2 MONTHS		8 WEEKS 2 MONTHS		8 WEEKS 2 MONTHS		8 WEEKS 2 MONTHS		8 WEEKS 2 MONTHS	

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
Cloud Essentials+| 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

*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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