## **CYBERSECURITY AND NETWORKING**



#### ABOUT THIS PROGRAM

# **TECH**

#### 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\*
- 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

#### **OUICK FACTS**

CREDIT HOURS

minimum credit hours required for graduation **COURSES** 

employment of Information Security Analysts1

#### 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 Cloud Essentials+ EC-Council CEH

- CompTIA Linux+
- CompTIA Project+
- CompTIA PenTest+
- CompTIA Network+ CompTIA CvSA+
- (ISC)<sup>2</sup> 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.



## **Cybersecurity and Networking**

## **ESSENTIALS**

26 **CREDIT HOURS** 

#### **COMMUNICATION SKILLS**

ENGL112 Composition

Select one

SPCH275 **Public Speaking** 

SPCH276 Intercultural Communication 🕏

#### **HUMANITIES**

Select one

Ethical and Legal Issues in the Professions ETHC232

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**

**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

Fundamentals of Information Technology NETW191

and Networking

NETW212 **Introduction to Cloud Computing** 

Fundamentals of Information Systems Security SEC285

### **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

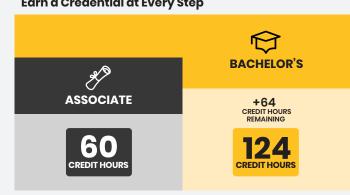
SEC340 **Business Continuity** 

SEC380 **Cloud Computing Security** 

#### **CAREER PREPARATION**

CEIS298 Introduction to Technical Project Management





#### 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	
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           NETW212         3         SEC311*         3           SEC285         3         SEC290         3           TOTAL         9         TOTAL         7           8 WEEKS         8 WEEKS           2 MONTHS         2 MONTHS	COURSE         CREDITS         COURSE         CREDITS           CARD205         2         SEC340*         4           TECH204         4         SEC399         1           SEC395         3         TOTAL         5           8 WEEKS         8 WEEKS         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
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

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<sup>\*</sup>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.