INFORMATION TECHNOLOGY & NETWORKING

Specialization: Cyber Security



ABOUT THIS DEGREE PROGRAM



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

In this specialization, you'll work to become the first line of defense against online attacks by learning to build defense mechanisms to protect applications, systems and networks. Explore network security testing, including countermeasure testing and the risk factor analysis needed to design a flexible and comprehensive security plan. Gain advanced skills to provide for business continuity and disaster recovery.

IS THIS PROGRAM FOR YOU?

If you're interested in a career in information technology (IT) and have a passion for keeping data and networks secure from cyber criminals, this IT degree focused on cyber security may be the right fit for you.

CAREER OPPORTUNITIES

Graduates of DeVry's Information Technology and Networking degree program with a specialization in Cyber Security may consider, but are not limited to, the following careers:

- Computer Network Support Specialist
- Computer Systems Analyst
- Information Security Analyst
- · Penetration Tester (Ethical Hacker)
- Security Analyst
- Vulnerability Assessor

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 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)

PROGRAM

- · Develop applications in an IDE framework
- Design LANs and VLANs
- Understand architecture and design
- Understand operation, regulation and trends

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

CREDIT HOURS minimum credit hours

required for graduation

nationally from 2022-2032 for 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.



SKILL FOCUSED CURRICULUM

Elements of our technology curriculum help prepare you to pursue certification opportunities that can validate your knowledge and skills.

- CompTIA Security +
- CompTIA PenTest+
- CompTIA CvSA+
- EC-Council CEH



ACCELERATE AT YOUR PACE

Choose the schedule that best fits your goals and commitments. You can earn your **Bachelor's Degree** in as little as 2 years 8 months.

Or, follow a normal schedule and complete your program in 4 years.

*Per 12-month period, assumes completion of 3 semesters, enrollment in 12-19 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 12-19 credit hours per semester.



Information Technology & Networking | Cyber Security

ESSENTIALS

51 CREDIT HOURS

COMMUNICATION SKILLS

ENGL135 Advanced Composition

ENGL216 Technical Writing

Select one

SPCH275 Public Speaking

SPCH276 Intercultural Communication 🕏

HUMANITIES

LAS432 Technology, Society, and Culture 😣

Select one

ETHC232 Ethical and Legal Issues in the Professions

ETHC334 Diversity, Equity and Inclusion in the

Workplace 🕏

SOCIAL SCIENCES

ECON312	Principles of Economics
SOCS185	Culture and Society 🛱

Select one

SOCS325 Environmental Sociology

SOCS350 Cultural Diversity in the Professions (*)

MATHEMATICS AND NATURAL SCIENCES

MATH114 Algebra for College Students

MATH234 Discrete Math in Information Technology

PHYS204 Applied Physics with Lab
TECH221 Data-Driven Decision -Making

PERSONAL AND PROFESSIONAL DEVELOPMENT

CARD405 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

TECH CORE

21 CREDIT HOURS

CE10404		- 1 1 1
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

System Security

PROGRAM

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INFORMATION SYSTEMS AND PROGRAMMING

CEIS150 Programming with Objects

CEIS236 Database Systems and Programming

Fundamentals

SEC313 Applied AI for Cybersecurity

NETWORK SYSTEMS ADMINISTRATION

NETW260 Intermediate Information Technology and

Networking I

NETW270 Intermediate Information Technology and

Networking II

NETW310 Wired, Optical and Wireless

Communications with Lab

NETW404 Data Center Virtualization

TECH408 Applied AI for Management and Technology

CAREER PREPARATION

CEIS298 Introduction to Technical Project Management

CEIS499 Preparation for the Profession

MGMT404 Project Management

TECH460 Senior Project

SPECIALIZED

14 CREDIT HOURS

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

SEC440 Information Systems Security Planning and Audit

SEC455 Security Operations Center

Demonstrate Skills at Every Step



EMBEDDED PROGRAMS

Earn two additional credentials with our unique 3-in-1 design. All courses in our Networking Essentials certificate and Information Technology and Networking associate degree are embedded within this program. So you can earn a certificate and an associate degree on the way to your bachelor's degree.

The figures displayed represent the minimum credit hours required for graduation. Additional coursework may be necessary to complete program requirements.

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