INFORMATION TECHNOLOGY & NETWORKING

Specialization: Cyber Security

ABOUT THIS DEGREE 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
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
- Analyze numerical data

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
- Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
- Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
- Communicate effectively in a variety of professional contexts.
- Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
- Function effectively as a member or leader of a team engaged in activities appropriate to the program discipline.
- Use systematic approaches to select, develop, apply, integrate, and administer secure computing technologies to accomplish user goals.
- Apply cybersecurity principles and practices to create and maintain secure operations.

SPECIALIZED
- Deploy strategies for cybercrime investigation and for forensic analysis and incident response
- Apply cybersecurity skills needed to secure in-house, cloud-centric and hybrid IT environments
- Simulate a security operations center (SOC) team applying core competencies to detect, analyze, respond to, and mitigate security incidents
- Maintain network security by leveraging an attacker's knowledge on exploiting vulnerabilities
- Utilize appropriate tools and techniques to perform penetration testing and analyze testing results

QUICK FACTS

120
CREDIT HOURS
minimum credit hours required for graduation

33%
GROWTH
nationally from 2023–2033 for Employment of Information Security Analysts[1]

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.

SKILLS FOCUSED

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 CySA+
- EC-Council CEH

MINIMUM COMPLETION TIME*	NORMAL COMPLETION TIME**
2 years 8 months	4 years

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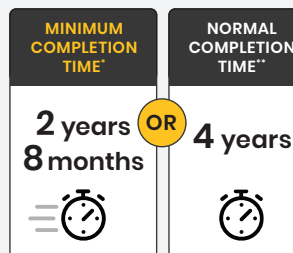
ACCELERATE ON YOUR SCHEDULE
Choose the schedule that best fits your goals and commitments. You can earn your **Bachelor's Degree** in as little as **2 years 8 months**.

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

* Minimum completion time does not include breaks and assumes 3 semesters of year-round, full-time enrollment in 12-19 credit hours a semester per 12-month period.
** Normal completion time includes breaks and assumes 2 semesters of enrollment in 12-19 credit hours per semester per 12-month period.

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Information Technology & Networking | Cyber Security

ESSENTIALS

51 CREDIT HOURS

COMMUNICATION SKILLS

ENGL112	Composition
ENGL135	Advanced Composition
ENGL216	Technical Writing
SPCH275	Public Speaking

HUMANITIES

ETHC232	Ethical and Legal Issues in the Professions
LAS432	Technology, Society, and Culture

SOCIAL SCIENCES

ECON312	Principles of Economics
SOCS185	Culture and Society
SOCS325	Environmental Sociology

MATHEMATICS AND NATURAL SCIENCES

MATH114	Algebra for College Students
MATH234	Discrete Math in Information Technology
TECH204	Everyday Physics
TECH221	Data-Driven Decision -Making

PERSONAL AND PROFESSIONAL DEVELOPMENT

CARD405	Career Development
COLL148	Critical Thinking and Problem-Solving

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 System Security

PROGRAM

36 CREDIT HOURS

PROGRAM FOCUS

CEIS236	Database Systems and Programming Fundamentals
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
SEC290	Fundamentals of Infrastructure Security
SEC305	Cybersecurity and Data Privacy
SEC313	Applied AI for Cybersecurity
SEC399	Cybersecurity Career Preparation

CAREER PREPARATION

CEIS298	Introduction to Technical Project Management
CEIS499	Preparation for the Profession
TECH408	Applied AI for Management and Technology
TECH460	Senior Project

SPECIALIZED

14 CREDIT HOURS

CYBER SECURITY

SEC335	Incident Response and Digital Forensics
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

BACHELOR'S

ASSOCIATE

CERTIFICATE
23 CREDIT HOURS

60 CREDIT HOURS

120 CREDIT HOURS

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.[2] So you can earn a certificate and an associate degree on the way to your bachelor's degree.

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

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