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 become the first line of defense against online attacks by learning to build defense mechanisms to protect applications, systems and networks. You’ll also explore network security testing, including countermeasure testing and the risk factor analysis needed to design a flexible and comprehensive security plan, and gain advanced skills in providing 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 Administrator
- Security Analyst
- Vulnerability Assessor (Vulnerability Assessment Analyst)

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

- Select and deploy network media
- Deploy defensive countermeasures
- Test and secure networks
- Analyze and mitigate security risks

QUICK FACTS

120 CREDIT HOURS
minimum credit hours required for graduation

32% GROWTH
nationally from 2018-2028 for Employment of Information Security Analysts1

2 + 8 YEARS MTH
minimum length to graduation2

3-IN-1
Earn two additional credentials with our unique 3-in-1 design. All courses in our Information Technology (IT) Essentials certificate program 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.

PORTABLE IoT KIT
You can simulate the Internet of Things (IoT) experience wherever you are. With our portable IoT Kit, you’ll get hands-on experience in how IoT technologies work in the real world. Your kit will include digital devices, sensors and other tools you will use to build relevant IoT systems.

CERTIFICATION EXAM REIMBURSEMENT
We reimburse qualified students up to $300 for the cost of one industry certification exam attempt across a wide range of fields.

2 Not including breaks. Assumes year-round, full-time enrollment. Additional program information may be found at https://www.devry.edu/degree-programs.html.

DeVry University
Bachelor's Degree Program

Information Technology & Networking | Cyber Security

ESSENTIALS

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
- MATH190: Pre-Calculus
- MATH221: Statistics for Decision-Making
- PHYS204: Applied Physics with Lab

PERSONAL AND PROFESSIONAL DEVELOPMENT
- CARD405: Career Development
- COLL148: Critical Thinking and Problem-Solving

TECH CORE

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
- NETW211: Fundamentals of Cloud Computing

INFORMATION SYSTEMS AND PROGRAMMING
- CEIS236: Database Systems and Programming Fundamentals
- CEIS312: Introduction to Artificial Intelligence and Machine Learning
- CIS170C: Programming with Lab

NETWORK SYSTEMS ADMINISTRATION
- NETW250: Voice/VoIP Administration with Lab
- NETW260: Intermediate Information Technology and Networking I
- NETW270: Intermediate Information Technology and Networking II
- SEC290: Fundamentals of Infrastructure Security

INFORMATION TECHNOLOGY AND NETWORKING
- NETW315: Wireless Technologies
- NETW320: Converged Networks with Lab

SENIOR PROJECT
- CEIS392: Product, Project, and People Management
- CEIS494: Senior Project I
- CEIS496: Senior Project II

TECHNOLOGY CAREER PREPARATION
- CEIS299: Careers and Technology
- CEIS499: Preparation for the Profession

SPECIALIZED

CYBER SECURITY
- NETW310: Wired, Optical and Wireless Communications with Lab
- SEC311: Ethical Hacking
- SEC321: Network Security Testing with Lab

Program Information:

- Bachelor’s Degree Program
- Information Technology & Networking | Cyber Security
- 51 Credit Hours
- 21 Credit Hours
- 13 Credit Hours

Demonstrate Skills at Every Step

ASSOCIATE

CERTIFICATE

BACHELOR’S

EMBEDDED PROGRAMS
Secure two additional credentials with our unique 3-in-1 design. Courses in our Information Technology (IT) Essentials certificate and Information Technology and Networking associate degree are embedded within our Cyber Security degree program, allowing you to obtain a certificate and an associate degree on the way to your bachelor’s degree.