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
Learn protocols and techniques necessary to secure and protect sensitive information and financial assets. You’ll also learn how cybersecurity teams work to secure, implement and maintain robust information security systems and networks from cyberattack.

IS THIS PROGRAM FOR YOU?
Want to pursue a career in computer information systems and interested in cybersecurity programming, code security and secure applications? This program may be the right fit for you.

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.

CAREER OPPORTUNITIES
Graduates of DeVry’s Computer Information Systems degree program with a specialization in Cyber Security Programming may consider, but are not limited to, the following careers:

- Computer Programmer
- Computer Security Specialist
- Cyber Security Specialist
- Information Security Analyst
- Data Security Administrator
- Software Developer

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
- Use advanced programming techniques
- Develop applications
- Understand network types and designs
- Deploy cryptographic and hacking methodologies

SPECIALIZED
- Understand and mitigate infrastructure security issues
- Develop standards, policies and procedures
- Mitigate web-based security threats
- Assess threats and develop countermeasures

QUICK FACTS

124 CREDIT HOURS
minimum credit hours required for graduation

32% GROWTH
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 CySA+
- 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 2 semesters and full-time enrollment in 12-19 credit hours per semester.

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.
Bachelor's Degree Program | Tech - Software and Information Systems

Computer Information Systems | Cyber Security Programming

ESSENTIALS

COMMUNICATION SKILLS
ENGL112 Composition
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
SOCIS185 Culture and Society
Select one
SOCIS325 Environmental Sociology
SOCIS350 Cultural Diversity in the Professions

MATHEMATICS AND NATURAL SCIENCES
MATH114 Algebra for College Students
PHYS204 Applied Physics with Lab
TECH221 Data-Driven Decision-Making

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
NETW212 Introduction to Cloud Computing
SEC285 Fundamentals of Information Security

INFORMATION SYSTEMS AND PROGRAMMING
CEIS150 Programming with Objects
CEIS209 Intermediate Programming
CEIS236 Database Systems and Programming Fundamentals
CIS313 AI-Driven Business Application Coding
CIS355A Business Application Programming with Lab

INFORMATION TECHNOLOGY AND NETWORKING
SEC290 Fundamentals of Infrastructure Security
SEC305 Cybersecurity and Data Privacy
SEC311 Ethical Hacking
SEC322 Penetration Testing

CAREER PREPARATION
CEIS298 Introduction to Technical Project Management
MGMT404 Project Management
SEC399 Cybersecurity Career Preparation
TECH460 Senior Project

SPECIALIZED

CYBER SECURITY PROGRAMMING
SEC380 Cloud Computing Security
SEC395 Cybersecurity Architecture and Engineering
SEC440 Information Systems Security Planning and Audit
SEC455 Security Operations Center

DEMONSTRATE SKILLS AT EVERY STEP

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.

14 for students enrolled at a New Jersey location
1 Students enrolled at a Nevada location must take POLI332 in lieu of this requirement.

Students enrolled at a Nevada location must take an additional six semester-credit hours of general education coursework from among the following course areas communication skills, humanities, social sciences, mathematics and natural sciences. Courses selected in humanities or social sciences should be upper-division coursework (DeVry courses numbered 300-499).

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In New York, DeVry University operates as DeVry College of New York. DeVry University is accredited by The Higher Learning Commission (HLC), www.hlcommission.org. The University's Keller Graduate School of Management is included in this accreditation. DeVry University is authorized for operation as a postsecondary educational institution by the Tennessee Higher Education Commission, www.tn.gov/thec. Arlington Campus: 1400 Crystal Dr., Ste. 120, Arlington, VA 22202. DeVry University is authorized for operation as a postsecondary educational institution by the State Council of Higher Education for Virginia. Arlington Campus: 1400 Crystal Dr., Ste. 400, Arlington, VA. 800-243-DEVO. Unsolved complaints may be reported to the Illinois Board of Higher Education through the online complaint system https://complaints.idhe.org or by mail to 1 N. Old State Capitol Plaza, Ste. 333, Springfield, IL 62701-1377. Program availability varies by location. In-site-based programs, students will be required to take a substantial amount of coursework online to complete their program. ©2024 DeVry Educational Development Corp. All rights reserved. Version 3/11/2024