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 working to prevent cybercrime? Then this program may be the right fit for you.

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

WORK WITH IOT TECHNOLOGIES & SYSTEMS
Immerse yourself in the Internet of Things (IoT) world and obtain hands-on experience with IoT, cloud, software and security technologies and 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.

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 options highlight relevant topics to help empower you to promote an inclusive workplace.

QUICK FACTS

1 124 CREDIT HOURS
minimum credit hours required for graduation\(^1\)

\(^1\) 127 for students enrolled at a Pennsylvania location

31% GROWTH
nationally from 2019–2029 for Employment of Information Security Analysts\(^2\)


2 2 + 8 YEARS + MONTHS
minimum length to graduation\(^3\)

\(^3\) Not including breaks. Assumes year-round, full-time enrollment. Additional program information may be found at https://www.devry.edu/online-programs.html.

3-IN-1
Earn two extra credentials with our unique 3-in-1 design. All courses in our Programming Essentials Certificate and Information Technology & Networking associate degree with a specialization in Information Systems and Programming are embedded within this program. So you can earn a certificate and an associate degree on the way to your bachelor’s.
### ESSENTIALS

**COMMUNICATION SKILLS**
- ENGL112 Composition
- ENGL135 Advanced Composition
- ENGL216 Technical Writing

**HUMANITIES**
- LAS432 Technology, Society, and Culture

**SOCIAL SCIENCES**
- ECON312 Principles of Economics
- SOCS185 Culture and Society

**MATHMATICS AND NATURAL SCIENCES**
- MATH114 Algebra for College Students
- 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
- SEC285 Fundamentals of Information Security

### PROGRAM

**INFORMATION SYSTEMS AND PROGRAMMING**
- CEIS150 Programming with Objects
- CEIS209 Intermediate Programming
- CEIS236 Database Systems and Programming Fundamentals
- CEIS312 Introduction to Artificial Intelligence and Machine Learning
- CIS355A Business Application Programming with Lab

**INFORMATION TECHNOLOGY AND NETWORKING**
- SEC310 Principles and Theory of Security Management
- SEC311 Ethical Hacking
- SEC321 Network Security Testing with Lab

**CAREER PREPARATION**
- CEIS299 Careers and Technology
- CEIS499 Preparation for the Profession
- MGMT404 Project Management
- TECH460 Senior Project

### SPECIALIZED

**CYBER SECURITY PROGRAMMING**
- NETW411 Information Security and Mobile Devices
- SEC380 Cloud Computing Security
- SEC440 Information Systems Security Planning and Audit
- SEC450 Advanced Network Security with Lab

### DEMONSTRATE SKILLS AT EVERY STEP

- This icon indicates Diversity, Equity & Inclusion Courses

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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 is certified to operate by the State Council of Higher Education for Virginia. Arlington Campus: 1400 Crystal Dr., Ste. 120, Arlington, VA 22202. DeVry University is authorized for operation as a postsecondary educational institution by the Tennessee Higher Education Commission. Naperville Campus: 1200 E. Diehl Rd., Naperville, IL 60563. 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.