**Bachelor's Degree Program**

**COMPUTER INFORMATION SYSTEMS**

Specialization: **Cyber Security Programming**

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**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 a 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.

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**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

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**QUICK FACTS**

**124 CREDIT HOURS**

Minimum credit hours required for graduation

**28% GROWTH**

Nationally from 2016-2026 for Employment of Information Security Analysts

**2 + 8 YEARS + MONTHS**

Minimum length to graduation

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**TWO IN ONE**

2-IN-1

Earn an extra credential with our unique 2-in-1 design. All courses in our Information Technology & Networking Associate degree are embedded within this program. So you can earn an associate degree on the way to your bachelor's.

**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.

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**MY PROFESSIONS HAVE BEEN AWESOME. THEY ARE PATIENT AND REALLY EXPLAIN THE MATERIAL AND ARE WILLING TO WORK WITH STUDENTS IF THEY NEED ASSISTANCE.**

- Katherine G., 2016 DeVry Graduate, Computer Information Systems

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1 Credit hours required for graduation

2 Data reflects a national projected percentage change in employment from 2016-2026 and may not reflect local economic conditions.

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

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**VISIT DEVRY.EDU | CALL 888.DEVRY.04**
**Bachelor's Degree Program**

**Computer Information Systems | Cyber Security Programming**

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### 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
  - MATH221 Statistics for Decision-Making
  - PHYS204 Applied Physics with Lab

- Personal and Professional Development
  - CARD405 Career Development
  - COLL148 Critical Thinking and Problem-Solving

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### 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
  - NETW190 Fundamentals of Information Technology and Networking I
  - NETW200 Fundamentals of Information Technology and Networking II
  - SEC285 Fundamentals of Information Security

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### PROGRAM

- **Information Systems and Programming**
  - CEIS236 Database Systems and Programming Fundamentals
  - CIS170C Programming with Lab
  - CIS247C Object-Oriented Programming with Lab

- **Networking and Systems Administration**
  - NETW260 Intermediate Information Technology and Networking I
  - NETW270 Intermediate Information Technology and Networking II

- **Information Technology and Networking**
  - CEIS210 Introduction to Cryptographic Methods
  - CEIS305 Operating Systems
  - NETW411 Information Security and Mobile Devices
  - SEC311 Ethical Hacking
  - SEC321 Network Security Testing 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

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### SPECIALIZED

- **Cyber Security Programming**
  - SEC290 Fundamentals of Infrastructure Security
  - SEC360 Data Privacy and Security
  - SEC370 Web Security
  - SEC440 Information Systems Security Planning and Audit

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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. 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: 2450 Crystal Dr., Arlington, VA 22202. DeVry University is authorized for operation as a postsecondary educational institution by the Tennessee Higher Education Commission, www.tn.gov/thec. Nashville Campus: 3343 Perimeter Hill Dr., Nashville, TN 37211. Programs, course requirements and availability vary by location. Some courses may be available online only. All students enrolled in site-based programs will be required to take some coursework online and, for some programs and locations, a substantial portion of the program may be required to be completed online. DeVry’s academic catalog, available via devry.edu/catalogs, contains the most current and detailed program information, including admission, progression and graduation requirements. Information contained herein is effective as of date of publishing. ©2018 DeVry Educational Development Corp. All rights reserved. Version 11/09/18