

# COMPUTER INFORMATION SYSTEMS

Specialization: Information Systems 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

Learn protocols and techniques necessary to protect information from unauthorized access, distribution, disruption, use, destruction and / or modification. You'll learn to understand how asset protection works in electronic and physical data storage.

#### IS THIS PROGRAM FOR YOU?

Interested in pursuing a career in computer information systems and working to protect sensitive and confidential information? Then this program may be the right fit for you.

## CAREER OPPORTUNITIES

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

- Computer Systems Administrator
- Computer Systems Analyst
- Computer Programmer
- Cyber Security Specialist
- Information Security 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

- Use advanced programming techniques
- Develop applications
- Analyze and design software systems
- Develop web-based interfaces and designs

### SPECIALIZED

- Identify and mitigate organization security issues
- Develop standards, policies and procedures
- Recognize security issues and deploy solutions
- 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 Analysts<sup>1</sup>

### 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 Linux+
- CompTIA Network+
- CompTIA Cloud Essentials+
- PCEP Certified Entry-Level Python Programmer
- CompTIA Security+
- CompTIA Project+

UP TO  
**\$300**

#### 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.

**MINIMUM  
COMPLETION TIME\***

**2 years  
8 months**

OR

**NORMAL  
COMPLETION TIME\*\***

**4 years**

## 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.

<sup>1</sup> <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.

ESSENTIALS

COMMUNICATION SKILLS¹

ENGL112²	Composition
ENGL135	Advanced Composition
ENGL216	Technical Writing
SPCH275	Public Speaking

HUMANITIES

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

SOCIAL SCIENCES

ECON312	Principles of Economics
SOCS185	Culture and Society
SOCS325³	Environmental Sociology

MATHEMATICS AND NATURAL SCIENCES

MATH114	Algebra for College Students
TECH204	Everyday Physics
TECH221	Data-Driven Decision -Making

PERSONAL AND PROFESSIONAL DEVELOPMENT

CARD405	Career Development
COLL148	Critical Thinking and Problem-Solving

47  
CREDIT HOURS

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

21  
CREDIT HOURS

PROGRAM

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

40  
CREDIT HOURS

APPLICATION DEVELOPMENT

CIS363B	Web Interface Design with Lab
CIS407A	Web Application Development with Lab
WBG310	Interactive Web Page Scripting with Lab

CAREER PREPARATION

CEIS298	Introduction to Technical Project Management
CEIS499	Preparation for the Profession
MGMT404	Project Management
TECH460	Senior Project

¹14 for students enrolled at a New Jersey location  
²Students enrolled at a New Jersey location take ENGL108 in lieu of this course.  
³Students enrolled at a Nevada location must take POLI332 in lieu of this requirement.  
Students enrolled at a New Jersey 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).

SPECIALIZED

INFORMATION SYSTEMS SECURITY

SEC305	Cybersecurity and Data Privacy
SEC340	Business Continuity
SEC380	Cloud Computing Security
SEC440	Information Systems Security Planning and Audit

16  
CREDIT HOURS

Demonstrate Skills at Every Step



EMBEDDED PROGRAMS

Acquire two additional credentials with our unique 3-in-1 design. The courses in our Programming Essentials Undergraduate Certificate Program and Information Technology and Networking Associate Degree Program are embedded within this program.\* Giving you the chance to obtain a certificate and an associate degree on the road to your bachelor's degree.

\*The figures displayed represent the minimum credit hours required for graduation. Additional coursework may be necessary to complete program requirements. 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.route to an eligible degree program. Refer to the academic catalog for details.

