ABOUT THIS DEGREE PROGRAM

A FOUNDATION IN TECHNOLOGY
This program is anchored with Tech Core, a 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 addition to the Tech Core curriculum, other coursework along your educational journey will expose you to a variety of concepts that can help guide your specialization choice. There are seven specializations available: Computer Forensics, Cyber Security Programming, Database Management, Information Systems Security, Software Programming, Web Development and Administration, and Web Game Programming.

IS THIS PROGRAM FOR YOU?
Interested in a career in computer information systems but not sure where to focus? In this program, you’ll be exposed to seven degree specializations in areas such as computer forensics and information security and be better equipped to choose your path.

CAREER OPPORTUNITIES
Graduates of DeVry’s Computer Information Systems degree program may consider, but are not limited to, the following careers:

- Computer Programmer
- Computer Security Specialist
- Data Analyst
- Software Engineering
- Database Administrator
- Computer Support Specialist
- Computer Security Specialist

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

QUICK FACTS

124 CREDIT HOURS required for graduation
4 YEARS + 2 MONTHS minimum length to graduation

THE SMART WAY TO BE UNDECIDED
With our undecided model, you’ll be exposed to seven different specializations and be better armed to choose your path.

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

127 for students enrolled at a Pennsylvania location.
Not including breaks. Assumes year-round, full-time enrollment.
Must declare a specialization by 30 credit hours for associate degree program and 60 credit hours for bachelor's degree program.
Bachelor's Degree Program

Computer Information Systems

ESSENTIALS

COMMUNICATION SKILLS
ENGL112 Composition
ENGL135 Advanced Composition
ENGL216 Technical Writing
SPCH275 Public Speaking

HUMANITIES2 3
ETHC232 Ethical and Legal Issues in the Professions
LAS432 Technology, Society, and Culture

SOCIAL SCIENCES
ECON312 Principles of Economics
SOC185 Culture and Society
SOC328 1 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

47 CREDIT HOURS

TECH CORE

INTRODUCTION TO TECHNOLOGY AND INFORMATION SYSTEMS
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

21 CREDIT HOURS

SPECIALIZED

Students who have not chosen an area of specialization may begin the program in "Undecided" status; however, they must select a specialization by the time they have earned 60 semester credit hours toward their degree.

Available specializations are:
- Computer Forensics
- Cyber Security Programming
- Database Management
- Information Systems Security
- Software Programming
- Web Development and Administration
- Web Game Programming

28 CREDIT HOURS

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

28 CREDIT HOURS

CAREER PREPARATION

CEIS299 Careers and Technology
CEIS499 Preparation for the Profession
MGMT404 Project Management
TECH460 Senior Project

22 CREDIT HOURS

47 CREDIT HOURS

EMBEDDED PROGRAMS

Obtain two additional credentials with our unique 3-in-1 design. All of our courses in our Programming Essentials certificate and Information Technology and Networking associate degree are embedded within this program. Allowing you the opportunity earn a certificate and an associate degree on the way to your bachelor's degree.

60 CREDIT HOURS

124 CREDIT HOURS

DEMONSTRATE SKILLS AT EVERY STEP