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
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
minimum credit hours required for graduation
2 YEARS + 8 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.

IoT KIT
You can simulate the Internet of Things (IoT) experience wherever you are. With our 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.
Bachelor's Degree Program

Computer Information Systems

ESSENTIALS

COMMUNICATION SKILLS

- ENGL112 Composition
- ENGL135 Advanced Composition
- ENGL216 Technical Writing
- SPC275 Public Speaking

HUMANITIES

- ETHC232 Ethical and Legal Issues in the Professions
- LAS143 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

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

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

- CEIS236 Database Systems and Programming Fundamentals
- CEIS312 Introduction to Artificial Intelligence and Machine Learning
- CIS170C Programming with Lab
- CIS274C System Programming with Lab
- CIS355A Business Application Programming with Lab

CAREER PREPARATION

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

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.

DEMONSTRATE SKILLS AT EVERY STEP

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