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
• Database Administrator
• Computer Support Specialist
• Data Scientist

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

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.¹

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+
• CompTIA Project+
• CompTIA Security+
• PCEP - Certified Entry-level
• Python Programmer

ACCELERATE AT YOUR PACE
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.

2 years
8 months
OR
4 years

¹Must declare a specialization by 30 credit hours for associate degree program and 60 credit hours for bachelor's degree program.

*Per 12-month period, assumes completion of 3 semesters, enrollment in 12-19 credit hours per semester and continuous, full-time year-round enrollment with no breaks.

**Per 12-month period, assumes completion of 2 semesters and full-time enrollment in 12-19 credit hours per semester.
Bachelor's Degree Program | Tech - Software and Information Systems

Computer Information Systems

**ESSENTIALS**

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

Select one
- SPCH275 Public Speaking
- SPCH276 Intercultural Communication

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

Select one
- ETHC232 Ethical and Legal Issues in the Professions
- ETHC334 Intercultural Communication

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

Select one
- SOCS325 Environmental Sociology
- SOCS350 Cultural Diversity in the Professions

**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

**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

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

**CAREER PREPARATION**
- CEIS298 Introduction to Technical Project Management
- CEIS499 Preparation for the Profession
- MGMT404 Project Management
- TECH460 Senior Project

**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

**DEMONSTRATE SKILLS AT EVERY STEP**

**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 course options – denoted by this icon – highlight relevant topics to help empower you to promote an inclusive workplace.

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