



Associate Degree Program INFORMATION TECHNOLOGY AND NETWORKING

Specialization: Information Systems and Programming

TECHNOLOGY
SOFTWARE AND INFORMATION SYSTEMS

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 the skills to write code, produce software programs and develop apps using industry-recognized programming languages.

Is This Program for You?

If you want to develop software applications and programs that businesses and consumers use every day, this may be the program for you.

CAREER OPPORTUNITIES

Graduates of DeVry's Information Technology and Networking associate degree program with a specialization in Information Systems and Programming may consider, but are not limited to, the following careers:

- Applications Programmer Analyst
- Computer Network Support Specialist
- Computer Systems Analyst
- Data Warehouse Specialist
- Systems Programmer 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

- Apply knowledge of math and science principles through programming to solve well-defined technology problems
- Design solutions for technology-driven problems
- Contribute to the design of systems, components and/or processes
- Conduct standard tests, measurements and experiments, and analyze and interpret results

Specialized

- Design and implement normalized databases using reports, forms and tables
- Create multiple table systems with multimedia presentations
- Develop applications with C#, .NET, Visual Studio and SQL
- Develop menu-driven programs that update, create and delete data from data stores

QUICK FACTS

60
CREDIT HOURS
minimum credit hours
required for graduation

11%
GROWTH
nationally from 2016-2026
for Employment of
Computer Network
Support Specialists¹

1 + 4
YEAR MONTHS
minimum length to graduation²



EVERY COURSE COUNTS

If you choose to continue on, all credits apply directly to your bachelor's, saving you time and money.



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.

Why did you choose DeVry?

“I wanted to gain the skills needed to help me get a career of my dreams!”

- Sharese R.,
2015 graduate, Computer Information Systems

DeVry 
University

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¹<https://www.bls.gov/ooh/computer-and-information-technology/computer-support-specialists.htm>. Data reflects a national projected percentage change in employment from 2016-2026 and may not reflect local economic conditions.

²Not including breaks. Assumes year-round, full-time enrollment. Additional program information may be found at <https://www.devry.edu/degree-programs.html>.



ESSENTIALS

26
CREDIT HOURS

Communication Skills

- ENGL112 Composition
- SPCH275 Public Speaking

Humanities

- ETHC232 Ethical and Legal Issues in the Professions

Social Sciences

- SOCS185 Culture and Society

Mathematics and Natural Sciences

- MATH114 Algebra for College Students
- PHYS204 Applied Physics with Lab

Personal and Professional Development

- CARD205 Career Development
- COLL148 Critical Thinking and Problem Solving

TECH CORE

21
CREDIT HOURS

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

PROGRAM

1
CREDIT HOURS

Technology Career Preparation

- CEIS299 Careers and Technology

SPECIALIZED

12
CREDIT HOURS

Information Systems and Programming (ISP)

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