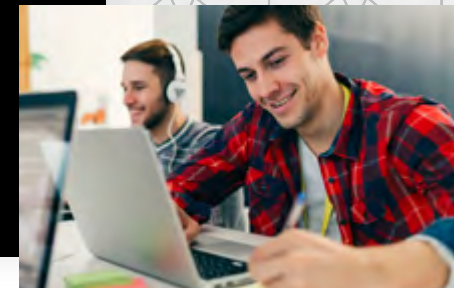


# INFORMATION TECHNOLOGY & NETWORKING

Specialization: Information Systems and Programming



## 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
- 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
- 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

**8%**  
GROWTH  
nationally from 2019-2029 for Employment of Computer Support Specialists<sup>1</sup>

**1 + 4**  
YEAR MONTHS  
minimum length to graduation<sup>2</sup>



### EVERY COURSE COUNTS

If you choose to continue on with your education at DeVry, all credits apply toward a Bachelor's degree in Computer Information Systems or Software Development.<sup>3</sup>



### WORK WITH IOT TECHNOLOGIES & SYSTEMS

Immerse yourself in the Internet of Things (IoT) world and obtain hands-on experience with IoT, cloud, software and security technologies and 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.



### 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 options highlight relevant topics to help empower you to promote an inclusive workplace.

<sup>1</sup> <https://www.bls.gov/ooh/computer-and-information-technology/computer-support-specialists.htm>. Growth projected on a national level. Local growth will vary by location.

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

<sup>3</sup> For the Associate in Information Technology and Networking program with a specialization in Information Systems and Programming, every course counts towards the Bachelor's in Computer Information Systems or the Bachelor's in Software Development degrees. At the time of application to the next credential level, an evaluation of qualifying transfer credit will occur and the most beneficial outcome will be applied.

# Information Technology & Networking | Information Systems and Programming

## ESSENTIALS

**26**  
CREDIT HOURS

### COMMUNICATION SKILLS

ENGL112 Composition

*Select one*

SPCH275 Public Speaking

SPCH276 Intercultural Communication ☼

### HUMANITIES

*Select one*

ETHC232 Ethical and Legal Issues in the Professions

ETHC334 Diversity, Equity and Inclusion in the Workplace ☼

### 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

☼ This icon indicates Diversity, Equity & Inclusion Courses

## 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

NETW191 Fundamentals of Information Technology and Networking

NETW211 Fundamentals of Cloud Computing

SEC285 Fundamentals of Information Systems Security

## PROGRAM

**1**  
CREDIT HOUR

### CAREER PREPARATION

CEIS299 Careers and Technology

### SPECIALIZED

**12**  
CREDIT HOURS

### INFORMATION SYSTEMS AND PROGRAMMING

CEIS150 Programming with Objects

CEIS209 Intermediate Programming

CEIS236 Database Systems and Programming Fundamentals

### Demonstrate Skills at Every Step

#### ASSOCIATE

#### CERTIFICATE

**22**  
CREDIT  
HOURS

**60**  
CREDIT  
HOURS

### EMBEDDED PROGRAMS

DeVry offers a unique 2-in-1 design that allows our Programming Essentials certificate to be embedded within the program. Giving you the chance to earn your certificate on the way to your associate degree.

visit [DeVry.edu](https://www.devry.edu) | Call 888.DeVry.04