

# INFORMATION TECHNOLOGY & NETWORKING

Specialization: Information Systems and Programming



## 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

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

**TWO**  
IN  
**ONE**

### DEMONSTRATE SKILLS AT EVERY STEP

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 a certificate on the way to your associate degree.<sup>1</sup>

**SKILLS**  
FOCUSED

### SKILL FOCUSED CURRICULUM

Elements of our technology curriculum help prepare you to pursue certification opportunities that can validate your knowledge and skills.

- CompTIA A+
- CompTIA ITF+
- CompTIA Network+
- CompTIA Cloud Essentials+
- CompTIA Linux+
- CompTIA Security+

**MINIMUM COMPLETION TIME\***

**1 year 4 months**

OR

**NORMAL COMPLETION TIME\*\***

**2 years**

## ACCELERATE ON YOUR SCHEDULE

Choose the schedule that best fits your goals and commitments. You can earn your **Associate Degree** in as little as **1 years 4 months**.

Or, follow a normal schedule and complete your program in 2 years.

\*Minimum completion time does not include breaks and assumes 3 semesters of year-round, full-time enrollment in 13-17 credit hours a semester per 12-month period.  
\*\*Normal completion time includes breaks and assumes 2 semesters of enrollment in 13-17 credit hours per semester per 12-month-period.

<sup>1</sup> Future programmatic changes could impact the ability to earn additional credentials en route to an eligible degree program. Refer to the academic catalog for details.

# Information Technology & Networking | Information Systems and Programming

## 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  
TECH204 Everyday Physics

### 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  
NETW191 Fundamentals of Information Technology and Networking  
NETW212 Introduction to Cloud Computing  
SEC285 Fundamentals of Information Systems Security

## PROGRAM

**1**  
CREDIT HOUR

### CAREER PREPARATION

CEIS298 Introduction to Technical Project Management

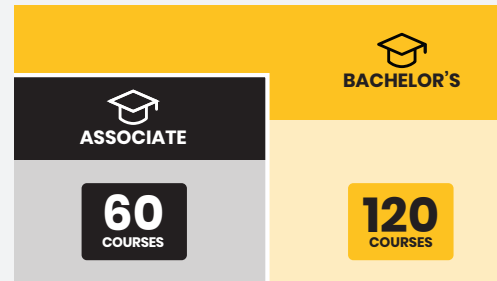
## SPECIALIZED

**12**  
CREDIT HOURS

### INFORMATION SYSTEMS AND PROGRAMMING

CEIS150 Programming with Objects  
CEIS209 Intermediate Programming  
CEIS236 Database Systems and Programming Fundamentals

### EARN A CREDENTIAL AT EVERY STEP



### HOW DO CREDENTIALS STACK?

When you earn an Associate Degree in Information Technology and Networking with a specialization in Information Systems and Programming, eligible courses completed in the program apply to a Bachelor's Degree in Information Technology.\*\* Build your confidence – and your resume – when you start your journey at DeVry.

\*The figures displayed represent the minimum credit hours required for graduation. Additional coursework may be necessary to complete program requirements.  
\*\*At the time of application to the next credential level, an evaluation of qualifying transfer credits will occur and the most beneficial outcome will be applied. Future programmatic changes could impact the application of credits to a future program. Refer to the academic catalog for details.

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