

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 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



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.¹



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.

¹ 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.

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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


TECH204 Everyday Physics

PERSONAL AND PROFESSIONAL DEVELOPMENT

CARD205 Career Development

COLL148 Critical Thinking and Problem-Solving

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.

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

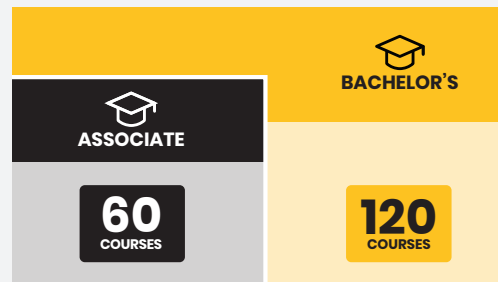
INFORMATION SYSTEMS AND PROGRAMMING

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.

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