



# Bachelor's Degree Program INFORMATION TECHNOLOGY AND NETWORKING

TECHNOLOGY  
INFORMATION TECHNOLOGY

## 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

With this program, you'll not only be armed with the Tech Core experience, but you'll also be exposed to a variety of concepts that can help guide your specialization choice in Mobile and Networked Devices, Cyber Security or Cloud Based Networking and Virtualization.

#### Is This Program for You?

Interested in a career in information technology but not sure where to focus? With this program, you'll be exposed to cyber security, networking, mobile technologies and cloud-based systems and be better armed to choose your path.

## CAREER OPPORTUNITIES

Graduates of DeVry's Information Technology and Networking degree program may consider, but are not limited to, the following careers:

- Computer Network Support Specialist
- 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

- Develop applications in an IDE framework
- Design LANs and VLANs
- Understand architecture and design
- Understand operation, regulation and trends

## QUICK FACTS



#### THE SMART WAY TO BE UNDECIDED

With our undecided model, you'll be exposed to three different specializations and be better armed to choose your path.<sup>1</sup>

### IoT KIT

#### 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.

#### What are your career goals?

“I would like to start my own IT firm. DeVry is helping me achieve this by giving me the foundation and tools I need.”

- Katherine G.,  
2016 DeVry Graduate, Computer Information Systems



## ESSENTIALS

51  
CREDIT HOURS

### Communication Skills

ENGL112	Composition <sup>1</sup>
ENGL135	Advanced Composition
ENGL216	Technical Writing
SPCH275	Public Speaking

### Humanities<sup>2</sup>

ETHC232	Ethical and Legal Issues in the Professions
LAS432	Technology, Society, and Culture

### Social Sciences

ECON312	Principles of Economics
SOCS185	Culture and Society
SOCS325 <sup>3</sup>	Environmental Sociology

### Mathematics and Natural Sciences

MATH114	Algebra for College Students
MATH190	Pre-Calculus
MATH221	Statistics for Decision-Making
PHYS204	Applied Physics with Lab

### Personal and Professional Development

CARD405	Career Development
COLL148	Critical Thinking and Problem-Solving

<sup>1</sup> Students enrolled at a New Jersey location take ENGL108 in lieu of this course.

<sup>2</sup> Students enrolled at a Pennsylvania location must take HUMN451 as part of this requirement.

<sup>3</sup> Students enrolled at a Nevada location must take POLI332 in lieu of this requirement.

## 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

36  
CREDIT HOURS

### Information Systems and Programming

CEIS236	Database Systems and Programming Fundamentals
CIS170C	Programming with Lab

### Network Systems Administration

NETW250	Voice/VoIP Administration with Lab
NETW260	Intermediate Information Technology and Networking I
NETW270	Intermediate Information Technology and Networking II
SEC290	Fundamentals of Infrastructure Security

### Information Technology and Networking

CEIS305	Operating Systems
NETW315	Wireless Technologies
NETW320	Converged Networks with Lab

### Senior Project

CEIS392	Product, Project, and People Management
CEIS494	Senior Project I
CEIS496	Senior Project II

### Technology Career Preparation

CEIS299	Careers and Technology
CEIS499	Preparation for the Profession

## SPECIALIZED

13  
CREDIT HOURS

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:

- Cloud Based Networking and Virtualization (CNV)
- Cyber Security (CS)
- Mobile and Networked Devices (MND)