

# INFORMATION TECHNOLOGY & NETWORKING



## 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 Cloud Based Networking and Virtualization, Cyber Security or Mobile and Networked Devices.

### 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
- Computer Systems Analyst Specialist

## 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

**120**  
CREDIT HOURS  
minimum credit hours  
required for graduation

**2 + 8**  
YEARS MONTHS  
minimum length to graduation<sup>1</sup>



### 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>2</sup>



### 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.

<sup>1</sup>Not including breaks. Assumes year-round, full-time enrollment. Additional program information may be found at <https://www.devry.edu/degree-programs.html>.

<sup>2</sup>Must declare a specialization by 60 credit hours for bachelor's degree program. Additional program information may be found at <https://www.devry.edu/degree-programs.html>.

## ESSENTIALS

**51**  
CREDIT HOURS

### COMMUNICATION SKILLS

ENGL112	Composition
ENGL135	Advanced Composition
ENGL216	Technical Writing
SPCH275	Public Speaking

### HUMANITIES

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

### SOCIAL SCIENCES

ECON312	Principles of Economics
SOCS185	Culture and Society
SOCS325	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

## 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
CEIS312	Introduction to Artificial Intelligence and Machine Learning
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

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
- Cyber Security
- Mobile and Networked Devices

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