

# INFORMATION TECHNOLOGY & NETWORKING

Specialization: Mobile and Networked Devices



## 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

Get hands-on experience working with devices that sense, communicate and control systems found in personal devices, homes, offices, commercial environments and everywhere in between. You'll also explore networking configuration, programming techniques for network devices and information security considerations for mobile and IoT devices.

### IS THIS PROGRAM FOR YOU?

Interested in a career in information technology (IT) connecting people and devices to one another through the Internet? This specialization, focused on mobile and networked devices, may be the right fit for you.

## CAREER OPPORTUNITIES

Graduates of DeVry's Information Technology and Networking degree program with a specialization in Mobile and Networked Devices may consider, but are not limited to, the following careers:

- Computer Network Support Specialist
- Computer Systems Analyst
- Information Systems Analysts
- Mobile and Wireless Device Technologist
- Mobile Device Administrator
- Network and Computer Systems Administrator

## WHAT YOU'LL LEARN

### ESSENTIALS

- Communicate methods and findings
- Collaborate in a dynamic work environment
- 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

### SPECIALIZED

- Analyze big data and wireless connectivity
- Program and connect network devices
- Examine and Analyze IoT systems
- Identify and mitigate risks
- Design mobile device applications

## QUICK FACTS

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

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

**THREE  
IN  
ONE**

### 3-IN-1

Earn two additional credentials with our unique 3-in-1 design. All courses in our Networking Essentials certificate program and Information Technology and Networking associate degree are embedded in this program. So you can earn a certificate and an associate degree on the way to your bachelor's degree.

**IoT  
PROJECTS**

### 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.

**UP  
TO \$300**

### 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.

**DIVERSITY,  
EQUITY &  
INCLUSION**

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

# Information Technology & Networking | Mobile and Networked Devices

## ESSENTIALS

**51**  
CREDIT HOURS

### COMMUNICATION SKILLS

ENGL112	Composition
ENGL135	Advanced Composition
ENGL216	Technical Writing

**Select one**

SPCH275	Public Speaking
SPCH276	Intercultural Communication ☼

### HUMANITIES

LAS432	Technology, Society, and Culture ☼
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**Select one**

ETHC232	Ethical and Legal Issues in the Professions
ETHC334	Diversity, Equity and Inclusion in the Workplace ☼

### SOCIAL SCIENCES

ECON312	Principles of Economics
SOCS185	Culture and Society ☼

**Select one**

SOCS325	Environmental Sociology
SOCS350	Cultural Diversity in the Professions ☼

### MATHEMATICS AND NATURAL SCIENCES

MATH114	Algebra for College Students
MATH221	Statistics for Decision-Making
MATH234	Discrete Math in Information Technology
PHYS204	Applied Physics with Lab

### PERSONAL AND PROFESSIONAL DEVELOPMENT

CARD405	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

**36**  
CREDIT HOURS

### INFORMATION SYSTEMS AND PROGRAMMING

CEIS150	Programming with Objects
CEIS236	Database Systems and Programming Fundamentals
CEIS312	Introduction to Artificial Intelligence and Machine Learning

### NETWORK SYSTEMS ADMINISTRATION

MGMT408	Management of Technology Resources
NETW260	Intermediate Information Technology and Networking I
NETW270	Intermediate Information Technology and Networking II
NETW310	Wired, Optical and Wireless Communications with Lab
NETW320	Converged Networks with Lab

### CAREER PREPARATION

CEIS299	Careers and Technology
CEIS499	Preparation for the Profession
MGMT404	Project Management
TECH460	Senior Project

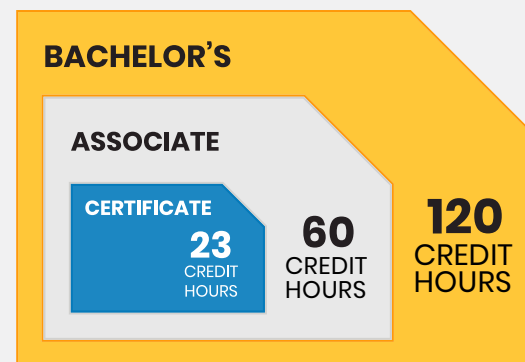
## SPECIALIZED

**13**  
CREDIT HOURS

### MOBILE AND NETWORKED DEVICES

CEIS490	Ecosystem of the Internet of Things
ECT286	Automation and Control
ECT315	Industrial IoT
NETW411	Information Security and Mobile Devices

### Demonstrate Skills at Every Step



### EMBEDDED PROGRAMS

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