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
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
- Mobile and Wireless Device Technologist

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

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 KIT
You can simulate the Internet of Things (IoT) experience wherever you are. With our 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 cloud-based 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.

QUICK FACTS

120 CREDIT HOURS
minimum credit hours required for graduation

31% GROWTH
nationally from 2019-2029 for Employment of Information Security Analysts

2 YEARS + 8 MONTHS
minimum length to graduation

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2 Not including breaks. Assumes year-round, full-time enrollment. Additional program information may be found at https://www.devry.edu/degree-programs.html.
3 The IoT Kit is a required expense and is not complimentary.
Bachelor’s Degree Program
Information Technology & Networking | Mobile and Networked Devices

ESSENTIALS

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
SOSC185 Culture and Society
SOSC325 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

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

STUDENT SERVICES

SPECIALIZED

MOBILE AND NETWORKED DEVICES
CEIS375 Information Technology and Mobility Essentials
CEIS380 Networked Devices and Embedded Systems
CEIS490 Ecosystem of the Internet of Things
NETW411 Information Security and Mobile Devices

PROGRAM

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
SEC260 Fundamentals of Information 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

DEMONSTRATE SKILLS AT EVERY STEP

EMBEDDED PROGRAMS
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BACHELOR’S

ASSOCIATE

CERTIFICATE

EMBEDDED PROGRAMS

Bachelor’s Degree Program
Information Technology & Networking | Mobile and Networked Devices

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In New York, DeVry University operates as DeVry College of New York. DeVry University is accredited by The Higher Learning Commission (HLC), www.hlcommission.org. Keller Graduate School of Management is included in this accreditation. DeVry is certified to operate by the State Council of Higher Education for Virginia. Arlington Campus: 1400 Crystal Dr., Ste. 120, Arlington, VA 22202. DeVry University is authorized for operation as a postsecondary educational institution by the Tennessee Higher Education Commission, www.tn.gov/thec. Nashville Campus: 3343 Perimeter Hill Dr., Nashville, TN 37211. Programs, course requirements and availability vary by location. Some courses may be available online only. All students enrolled in site-based programs will be required to take some coursework online and, for some programs and locations, a substantial portion of the program may be required to be completed online. DeVry’s academic catalog, available via devry.edu/catalogs, contains the most current and detailed program information, including admission, progression and graduation requirements. Information contained herein is effective as of date of publishing. ©2020 DeVry Educational Development Corp. All rights reserved. Version 12/18/20