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
Gain exposure to cloud computer, information storage and enterprise network design and management in this specialization. You’ll also prepare to design and implement systems that transmit, store and analyze data and information passing through shared resources, to help businesses operate economically.

IS THIS PROGRAM FOR YOU?
Interested in a career in information technology (IT) and helping businesses improve and expand computing power to become more profitable, then this specialization, focused on cloud-based networking and virtualization, may be the right fit for you.

CAREER OPPORTUNITIES
Graduates of DeVry’s Information Technology and Networking degree program with a specialization in Cloud Based Networking and Virtualization may consider, but are not limited to, the following careers:

- Cloud Computing Technologist
- Cloud & Workspace Administrator
- Computer Network Support Specialist
- Computer Systems Analyst
- Information Security Analysts
- Server Hardware Technologist
- Virtualization 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

SPECIALIZED
- Operation and troubleshooting of data centers
- Deploy cloud-based systems and solutions
- Develop enterprise and cloud-based systems
- Design mobile device applications

QUICK FACTS

120
Credit Hours
minimum credit hours required for graduation

32%
Growth
nationally from 2018-2028 for Employment of Information Security Analysts1

2 + 8
Years + Months
minimum length to graduation2

2-IN-1
Earn an extra credential with our unique 2-in-1 design. All courses in our Information Technology & Networking Associate degree are embedded within this program. So you can earn an associate degree on the way to your bachelor’s.

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.

2 Not including breaks. Assumes year-round, full-time enrollment. Additional program information may be found at https://www.devry.edu/degree-programs.html.
Bachelor's Degree Program

Information Technology & Networking | Cloud Based Networking and Virtualization

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
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

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

INFORMATION SYSTEMS AND PROGRAMMING
CEIS236  Database Systems and Programming Fundamentals
CEIS312  Introduction to Artificial Intelligence and Machine Learning
CEIS170C  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

CLOUD BASED NETWORKING AND VIRTUALIZATION
NETW404  Data Center Virtualization
NETW414  Cloud Computing Fundamentals
NETW432  Information Storage and Management
NETW440  Enterprise Network Design and Management

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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: 2450 Crystal Dr., 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. ©2019 DeVry Educational Development Corp. All rights reserved. Version 12/9/19