

INFORMATION TECHNOLOGY & NETWORKING

Specialization: Cloud Based Networking and Virtualization



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

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

**TWO
IN
ONE**

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.

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.

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.

¹ <https://www.bls.gov/ooh/computer-and-information-technology/information-security-analysts.htm>. Data reflects a national projected percentage change in employment from 2018-2028 and may not reflect local economic conditions.

² Not including breaks. Assumes year-round, full-time enrollment. 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

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/thecc. 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

