

# NETWORK AND COMMUNICATIONS MANAGEMENT



## ABOUT THIS DEGREE PROGRAM

### TECH CORE

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

DeVry University's Network and Communications Management bachelor's degree program can prepare you for a firm foundation in computer networks and telecommunication. You'll also prepare to design, implement and secure network systems to help businesses operate effectively.

### 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? This program can expose you to the next-generation of network tools and prepare you to connect people via VoIP, video, smart phones and more.

## CAREER OPPORTUNITIES

Graduates of our [Bachelor's in Network and Communications Management program](#) may consider careers such as:

- Computer Support Specialist
- Corporate Security Manager
- Database Administrator
- Network and Communications Manager
- Network Security Analyst

## WHAT YOU'LL LEARN

### ESSENTIALS

- Communicate methods and findings
- Collaborate in dynamic work environments
- Solve complex problems
- Analyze numerical data
- Apply appropriate technologies

### PROGRAM

- Apply networking protocols to large and small network configurations
- Build, secure and upgrade networked systems
- Use network operating systems and switching techniques to manage networks
- Explore and apply VOIP technologies in networks

### SPECIALIZED

- Leverage wired and wireless media strategies for developing network configurations
- Design typical LAN, VLAN and WAN networks
- Manage enterprise level or small business network and technology resources
- Identify and mitigate network risk and cyber-security threats

## QUICK FACTS

**124**  
CREDIT HOURS  
minimum credit hours required for graduation<sup>1</sup>

**8%**  
GROWTH  
nationally from 2019-2029 for employment of computer support specialists<sup>2</sup>

**2 + 8**  
YEARS MONTHS  
minimum length to graduation<sup>3</sup>

### 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.

### SKILLS FOCUSED

### CERTIFICATION EXAM ALIGNED CURRICULUM

Experience elements of our technology curriculum focused on real-world industry standards and prepare for certification opportunities that help validate your knowledge and skills.

- Comp TIA ITF+
- CompTIA A+
- Comp TIA Linux+
- PCEP - Certified Entry-level Python Programmer
- Comp TIA Network+
- Comp TIA Cloud+
- Comp TIA Security+
- CCNA

### FLEX 2 FIT

### FLEXIBILITY TO FIT YOUR LIFE

Take courses online, on campus or in our innovative connected classrooms. Study full- or part-time and tailor your DeVry experience to fit your life. Classes start every 8 weeks, so you can begin your college degree when it makes sense for you.

### 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> 128 for students enrolled at a New Jersey location and 127 for students enrolled at a Pennsylvania location.

<sup>2</sup> <https://www.bls.gov/ooh/computer-and-information-technology/computer-support-specialists.htm>. Growth projected on a national level. Local growth will vary by location.

<sup>3</sup> Not including breaks. Assumes year-round, full-time enrollment. Additional program information may be found at <https://www.devry.edu/online-programs.html>.

# Network and Communications Management

## ESSENTIALS

47  
CREDIT HOURS

### COMMUNICATION SKILLS<sup>1</sup>

ENGL112 <sup>2</sup>	Composition
ENGL135	Advanced Composition
ENGL216	Technical Writing

#### Select one

SPCH275	Public Speaking
SPCH276	Intercultural Communication ☼

### HUMANITIES<sup>3,4,5</sup>

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 <sup>6</sup>	Principles of Economics
SOC3185	Culture and Society ☼

#### Select one

SOC3325	Environmental Sociology
SOC3350	Cultural Diversity in the Professions ☼

### MATHEMATICS AND NATURAL SCIENCES<sup>7</sup>

MATH114	Algebra for College Students
MATH221	Statistics for Decision-Making
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

<sup>1</sup>14 for students enrolled at a New Jersey location.

<sup>2</sup>Students enrolled at a New Jersey location take ENGL108 in lieu of this course.

<sup>3</sup>Students enrolled at a Pennsylvania location must take HUMN451 as part of this requirement.

<sup>4</sup>Students enrolled at a New Jersey location must take HIST410 as part of this requirement.

<sup>5</sup>9 for students enrolled at a Pennsylvania location.

<sup>6</sup>Students enrolled at a Nevada location must take POLI332 in lieu of this requirement.

<sup>7</sup>11 for students enrolled at a New Jersey location.

<sup>8</sup>Students enrolled at a New Jersey location must take CEIS299 as part of this requirement.

## PROGRAM

77  
CREDIT HOURS

### BUSINESS

ACCT212	Financial Accounting
MGMT408	Management of Technology Resources

### 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

### INFORMATION SYSTEMS AND PROGRAMMING

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

### INFORMATION TECHNOLOGY AND NETWORKING

NETW260	Intermediate Information Technology & Networking I
NETW270	Intermediate Information Technology & Networking II
NETW310	Wired, Optical and Wireless Communications with Lab
NETW320	Converged Networks with Lab
NETW411	Information Security and Mobile Device
PROJ420	Project Risk Management
SEC290	Fundamentals of Infrastructure Security
SEC310	Principles and Theory of Security Management
SEC450	Advanced Network Security with Lab
WEB375	Web Architecture with Lab

### CAREER PREPARATION<sup>8</sup>

CEIS499	Preparation for the Profession
MGMT404	Project Management
TECH460	Senior Project

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