

# NETWORK AND COMMUNICATIONS MANAGEMENT



## ABOUT THIS DEGREE PROGRAM



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

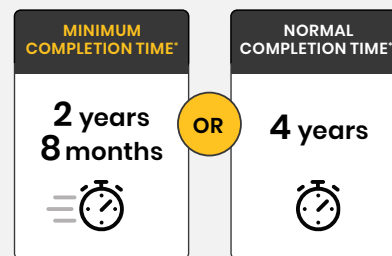
**124**  
CREDIT HOURS  
minimum credit hours required for graduation<sup>1</sup>



### 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



### ACCELERATE AT YOUR PACE

Choose the schedule that best fits your goals and commitments. You can earn your **Bachelor's Degree** in as little as **2 years 8 months**.

Or, follow a normal schedule and complete your program in 4 years.

\*Per 12-month period, assumes completion of 3 semesters, enrollment in 12-19 credit hours per semester and continuous, full-time year-round enrollment with no breaks.

\*\*Per 12-month period, assumes completion of 2 semesters and full-time enrollment in 12-19 credit hours per semester.

# Network and Communications Management

## ESSENTIALS

47  
CREDIT HOURS

### COMMUNICATION SKILLS

ENGL112 <sup>1</sup>	Composition
ENGL135	Advanced Composition
ENGL216	Technical Writing

#### Select one

SPCH275	Public Speaking
SPCH276	Intercultural Communication ☼

### HUMANITIES<sup>2</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>3</sup>	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
PHYS204	Applied Physics with Lab

### PERSONAL AND PROFESSIONAL DEVELOPMENT

CARD405	Career Development
COLL148	Critical Thinking and Problem-Solving



#### 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 course options – denoted by this icon – highlight relevant topics to help empower you to promote an inclusive workplace.

<sup>1</sup>Students enrolled at a New Jersey location take ENGL108 in lieu of this course.

<sup>2</sup>Students enrolled at a New Jersey location must take HIST410 as part of this requirement.

<sup>3</sup>Students enrolled at a Nevada location must take POL1332 in lieu of this requirement.

<sup>4</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
NETW411	Information Security and Mobile Device
PROJ420	Project Risk Management
SEC290	Fundamentals of Infrastructure Security
SEC305	Cybersecurity and Data Privacy
SEC322	Penetration Testing
SEC450	Advanced Network Security with Lab
WEB375	Web Architecture with Lab

### CAREER PREPARATION<sup>4</sup>

CEIS499	Preparation for the Profession
MGMT404	Project Management
TECH460	Senior Project

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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](http://www.hlcommission.org). The University's 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/the.c](http://www.tn.gov/the.c). Naperville Campus: 1200 E. Diehl Rd., Naperville, IL 60563. Unresolved complaints may be reported to the Illinois Board of Higher Education through the online complaint system <http://complaints.ibhe.org/> or by mail to 1 N. Old State Capitol Plaza, Ste. 333, Springfield, IL 62701-1377. Program availability varies by location. In site-based programs, students will be required to take a substantial amount of coursework online to complete their program. ©2023 DeVry Educational Development Corp. All rights reserved. Version 7/25/2023