



Bachelor's Degree Program

# NETWORK & COMMUNICATIONS MANAGEMENT

## ABOUT THIS DEGREE PROGRAM

Today, businesses and individuals demand connectivity 24/7. Communication, information and even entertainment are delivered through “always on” networks that need to be highly accessible and highly secure. Recent advances in wireless and fiber optic technology have made communication faster and clearer than ever before; making possible a range of new mobile devices that allow you to remotely schedule and watch your favorite TV shows, while browsing the web.

A bachelor's degree from DeVry University's Network & Communications Management program can prepare you with the knowledge and skills needed in this profession. Our degree program can expose you to the next-generation of network tools and prepare you to connect people via VoIP, video, smart phones and more.

Through our TechPath approach, we've put technology at the core of our programs in business, tech and health – including this program. Every TechPath class you take revolves around a unique learning rubric developed at DeVry. We call it People-Process-Data-Devices or P2D2. You'll gain real skills in collaboration, be able to adapt to new structures, and be comfortable working with data and a wide spectrum of tech-forward tools. P2D2 is a key component of what makes TechPath a smart, new way of getting the knowledge you need to be ready to hit the ground running in the way successful companies work today.

## GENERAL EDUCATION COURSEWORK

### Communication Skills

<b>ENGL112<sup>1</sup></b>	Composition
<b>ENGL135</b>	Advanced Composition
<b>ENGL216</b>	Technical Writing
<b>SPCH275</b>	Public Speaking

### Humanities<sup>2</sup>

<b>HUMN303</b>	Introduction to the Humanities
<b>ETHC445</b>	Principles of Ethics
<b>LAS432</b>	Technology, Society, and Culture

### Social Sciences

<b>ECON312<sup>3</sup></b>	Principles of Economics
<b>SOCS185</b>	Culture and Society
<b>SOCS325</b>	Environmental Sociology

### Mathematics and Natural Sciences

<b>MATH114</b>	Algebra for College Students
<b>MATH221</b>	Statistics for Decision-Making
<b>SCI228<sup>4</sup></b>	Nutrition, Health and Wellness with Lab

### Personal and Professional Development

<b>CARD405</b>	Career Development
<b>COLL148</b>	Critical Thinking and Problem-Solving

<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 POLI332 in lieu of this requirement

<sup>4</sup>Students enrolled at a New Jersey location may take SCI200 to fulfill this requirement

## CORE-DEGREE COURSEWORK

### Business

<b>ACCT301</b>	Essentials of Accounting
<b>COMP100</b>	Computer Applications for Business with Lab
<b>MGMT404</b>	Project Management
<b>MGMT408</b>	Management of Technology Resources

### Computing

<b>CEIS100</b>	Introduction to Engineering Technology and Information Sciences
<b>CIS206</b>	Architecture and Operating Systems with Lab
<b>COMP230</b>	Introduction to Scripting and Database with Lab
<b>SEC280</b>	Principles of Information Systems Security

### Network Operating Systems and Technologies

<b>NETW230</b>	Network Operating Systems – Windows, with Lab
<b>NETW240</b>	Network Operating Systems – UNIX, with Lab
<b>NETW250</b>	Voice/VoIP Administration with Lab
<b>NETW310</b>	Wired, Optical and Wireless Communications with Lab
<b>NETW320</b>	Converged Networks with Lab
<b>NETW360</b>	Wireless Technologies and Services with Lab
<b>NETW410</b>	Enterprise Network Design with Lab
<b>NETW420</b>	Enterprise Network Management with Lab
<b>NETW471</b>	Advanced Topics in Networking

### Senior Project

<b>NETW494</b>	Senior Project I with Lab
<b>NETW497</b>	Senior Project II with Lab

## DID YOU KNOW?

Cisco Networking Academy courses at DeVry University teach networking and IT skills that can prepare you for industry-recognized certifications.

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](http://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.

Courses in blue are part of the DeVry Tech Path



# Bachelor's Degree Program Network & Communications Management

## CAREERS IN NETWORK & COMMUNICATIONS MANAGEMENT

Network and communications managers are employed far beyond the computer and telecommunications industries. Financial firms, insurers, schools and government agencies all employ network and communications specialists to meet their specialized needs for information sharing and communication. Many network and communications professionals are also self-employed as consultants working for a wide variety of companies.

Earning DeVry University's bachelor's degree in Network & Communications Management, you can be prepared to design, build, install and manage voice, video and other data communication systems. You can learn to create backup, security and redundancy measures to ensure the privacy of sensitive information and the ability to access critical information in times of crisis or natural disaster. You can also gain a basic understanding of the regulations that govern this industry, allowing you to perform your tasks ethically and conscientiously.

Within the Cisco track of our Networking program, you can learn the networking and IT skills to prepare you for the Cisco Certified Networking Associate (CCNA) and the Cisco Certified Entry Networking Technician (CCENT) certifications, industry recognized credentials. Certifications like these validate your skills to hiring managers. And, as a student enrolled in our Network & Communication Management program, you can take advantage of our Certification Prep courses at no tuition charge. Better still, eligible students who register for, and complete, the CCNA exam may be reimbursed for one exam sitting.

Graduates of DeVry University's Network & Communication Management degree program may consider careers including, but not limited to, the following:

- Computer Network Support Specialist
- Computer Security Specialist
- Computer Support Specialist
- Corporate Security Manager
- Data Communications Analyst
- Database Administrator
- Disaster Recovery Analyst
- Network and Communications Manager
- Network and Telecommunications Manager
- Network Engineer
- Network or Computer Systems Administrator
- Network Security Administrator
- Network Security Analyst
- Network Security Specialist
- Network Systems Analyst
- Network Systems or Data Communications Analyst

Employment in some occupations may require years of relevant experience.

**For comprehensive consumer information, visit [devry.edu/studentconsumerinfo](http://devry.edu/studentconsumerinfo). Important information about the education debt, earnings and completion rates of students who attended this program can be found at [devry.edu/bncm-gre](http://devry.edu/bncm-gre). For additional program information, visit [devry.edu/bncm](http://devry.edu/bncm).**

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). 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 by the THEC, [www.tn.gov/thecc](http://www.tn.gov/thecc) Nashville Campus - 3343 Perimeter Hill Dr., Nashville, TN 37211. To report unresolved complaints to the Illinois Board of Higher Education, visit their webpage at <http://complaints.ibhe.org/> or by mail to the Illinois Board of Higher Education, 1 N. Old State Capitol Plaza, Suite 333, Springfield, IL 62701-1377. Program availability varies by location. ©2016 DeVry Educational Development Corp. All rights reserved. Version 06/27/17

## KNOWLEDGE AND SKILLS

**WIRED, OPTICAL AND WIRELESS COMMUNICATIONS** — Examine various signals and their transmission in the network, including codes and numbering systems, data transmissions methods, basic point-to-point networks, error detection and correction, and Internet access technologies.

**CONVERGED NETWORKS** — Explore current and emerging networks that deliver voice, data and video/ imaging through various technologies, including core switching, broadband, edge access, Internet protocol telephony, adding packet capabilities to circuit-switched networks, 3G and 4G solutions, presence-enabled communications, and security and troubleshooting.

**WIRELESS TECHNOLOGIES AND SERVICES** — Explore wireless technology and how wireless networks operate, including wireless network components, design, security, troubleshooting and regulation.

**ADVANCED NETWORKING** — Focus on emerging and advanced topics in the networking field, exploring advances in technology and their implications in designing, implementing, securing and managing networks.

**ADVANCED NETWORK SECURITY** — Develop advanced skills in identifying network security vulnerabilities, including wireless vulnerabilities; conducting risk assessments; preventing, detecting and responding to intrusions; and providing for business continuity and disaster recovery.

**ADMINISTRATION AND MANAGEMENT**— Gain knowledge of the business and management principles involved in strategic planning, resource allocation, human resources modeling, leadership techniques, production methods, and coordination of people and resources.

**SYSTEMS EVALUATION** — Identify measures or indicators of system performance and the actions needed to improve or correct performance, relative to the goals of the system.

**ATTENTION TO DETAIL** — Learn to pay attention to detail and to be thorough in completing work tasks.

**INTERACTING WITH COMPUTERS** — Use computers and computer systems to program hardware, write software, set up functions, enter data or process information.

## PROGRAM-SPECIFIC COURSEWORK

### ALL OF

- NETW202** Introduction to Networking with Lab
- NETW204** Introduction to Routing with Lab
- NETW206** Introduction to Switching with Lab
- NETW208** Introduction to WAN Technologies with Lab
- SEC450** Advanced Network Security with Lab
- CERT401** Cisco Certified Network Associate Routing and Switching Certification Preparation  
*This optional certification exam prep course may be taken in addition to the courses above.*

### OR

### ALL OF:

- NETW203** Cisco Networking Academy – Introduction to Networking with Lab
- NETW205** Cisco Networking Academy – Introduction to Routing with Lab
- NETW207** Cisco Networking Academy – Introduction to Switching with Lab
- NETW209** Cisco Networking Academy – Introduction to WAN Technologies with Lab
- SEC453** Cisco Networking Academy – Advanced Network Security with Lab
- CERT401** Cisco Certified Network Associate Routing and Switching Certification Preparation  
*This optional certification exam prep course may be taken in addition to the courses above.*

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