

What Can I Do With a Major In **COMPUTER NETWORKING?**

Programs in computer systems networking and administration prepare people to manage linked systems of computers and devices. Computer systems networking and administration programs include topics such as:

Computer hardware and software
Systems design and management
Networking theory and solutions
Operating systems and applications

Information systems security
Outage control
Problem diagnosis

Concentrations

In computer systems networking and administration programs, students may be able to specialize in:

- Network administration
- System administration
- Computer and network security
- Information Technology help desk

Typical Coursework

Computer and Network Security
Computer Architecture
Computer User Support
Data and Computer Communications
Virtualization Infrastructure
Internet and World Wide Web
Linux and Unix Systems
Computer and Network Administration

Network and Systems Repair
Operating Systems
Wireless networking
VoIP and Unified Communications
System Analysis and Design
Local Area Networks (LAN)
Wide Area Networks (WAN)
Storage Area Networks (SAN)

Related Major Skills

Abstract and Formal Reasoning
Knowledge of Operating Systems
Problem-solving
Logical Thinking
Organizing / Simplifying
Detail-oriented
Work independently and in teams
Efficiency
Written and oral communication skills

Knowledge of computer hardware and software
Multi-tasking
Analyzing
Knowledge of Telecommunications equipment
Critical Thinking
Thoroughness
Advanced Quantitative Abilities
Mathematical Skills
Research

Directly Related Occupations

Computer & Information Systems Manager
Network Administrator
Wireless Network Specialist
Computer Support Technician

Help Desk Specialist
Network Security Analyst
Computer Systems Administrator
Server Support Specialist

Who Hires for this Occupation?

Computer systems design companies, information services companies, telecommunication service agencies, finance & insurance companies, financial firms, manufacturing firms, colleges & universities, federal, state & local government agencies, information & internet organizations, business management and support services companies, and software & computer service organizations.

Professional Association Links

SANS (System Administration, Networking, and Security) Institute, <http://www.sans.org>

Computer Technology Industry Association, <http://certification.comptia.org/ExploreCareers.aspx>

IEEE Communications Society, <http://www.comsoc.org>

Storage Networking Industry Association (SNIA), <http://www.snia.org>

Network Professional Association, <http://www.snia.org>

For More Information

Contact ARCC Career Counseling: (763) 433-1240 (CR campus), (763) 433-1840 (Cambridge campus)
or stop by the campus Information Desk