



Career Opportunities in Computer Information Systems NETWORK ADMINISTRATION



Nature of Occupation:

Network administrators are needed to design, test, and evaluate systems such as local area networks (LANs), wide area networks (WANs), the Internet, intranets, and other data communications systems. Systems can range from a connection between two offices in the same building to globally distributed networks. Network administrators perform network modeling, analysis, and planning. They also may research related products and make necessary hardware and software recommendations. Networking professionals are in great demand as both in-house experts who work for a single company and as consultants who contract with many different companies. Students majoring in Networking Technologies will be preparing themselves to become certified as a Microsoft Certified System Administrator. This type of industry recognized certification can provide graduates with a wide variety of opportunities in the networking field. Duties may include:

- designing computer networks
- installing network hardware and software
- maintaining, updating, and troubleshooting networks
- developing and implementing network procedures and security
- monitoring and evaluating network operations
- training users
- keeping up with advances in technology



Education and Training:

Students majoring in Networking Administration will be preparing themselves to become certified as a Microsoft Certified System Administrator or Novell CNA. These industry recognized certifications can provide graduates with a wide variety of opportunities in the networking field. The advantage of taking these courses at Tyler Junior College is that, instead of a “force-fed”, three to five day, eight-hour-a-day class, we train over an eight to sixteen week semester with a large amount of hands-on lab experience.

Salary Range:

\$36,000 - \$70,000 per year.

Employment Outlook:

Employment of computer professionals in Texas is expected to increase by 18% by the year 2016; a much faster growth than any other occupation in Texas. In addition, this occupation is expected to add 155,000 jobs over the projection decade. Within the computer field, networking will be the fastest area of growth.

Note: Information and data obtained from Occupational Outlook Handbook; TWC Tracer and CareerOneStop.

The Career Clusters icons are being used with permission of the:



States' Career Clusters Initiative, 2008, www.careerclusters.org

**TYLER JUNIOR COLLEGE
2009-2010 CATALOG
COMPUTER INFORMATION SYSTEMS**

**Network Administration – ISNA_AAS
(Associate of Applied Science)**

First Year

Fall Semester

BCIS 1405 Business Computer Applications
ITSC 1305 Introduction to PC Operating Systems
ITMT 1400 Implementing and Supporting Microsoft Windows XP Professional
ITNW 1425 Fundamentals of Network Technologies
ITSE 1401 Web Design Tools

Spring Semester

ITNW 1408 Implementing & Supporting Microsoft Client Operating Systems
ITMT 1470 Supporting Users and Troubleshooting Desktop Applications on Windows XP
CPMT 1411 Introduction to Computer Maintenance
ENGL 1301 Composition I
_____ _____ **College-Level Mathematics Elective**

Second Year

Fall Semester

ITMT 1440 Managing and Maintaining a Microsoft Windows Server 2003 Environment
ITMT 1450 Implementing, Managing, and Maintaining a Microsoft Windows Server 2003 Network Infrastructure: Network Services
ITSC 1416 Linux Installation and Configuration
ITSC 1359 Introduction to Scripting Languages
_____ _____ **Social/Behavioral Science Elective**

Spring Semester

ITMT 2440 Designing Security for Microsoft Networks
ITNW 2335 Network Troubleshooting and Support (Projects Course)
EECT 1300 Technical Customer Support
SPCH 1321 Business and Professional Communication
_____ _____ **Humanities/Fine Arts Elective**

Total Semester Hours – 71

Bold courses represent general education requirements.

FOR MORE INFORMATION, CONTACT:

**Shelley Kersh
Professor
Computer Information Systems
Tyler Junior College
P.O. Box 9020
Tyler, TX 75711
Phone: (903) 510-2369
Pirtle Technology Building, T-212
E-mail: sker@tjc.edu**

OR

**Matt Duncan
Professor
Computer Information Systems
Tyler Junior College
P.O. Box 9020
Tyler, TX 75711
Phone: (903) 510-3202
Pirtle Technology Building, T-341
E-mail: mdun@tjc.edu**