

ITNW 2401 – Administering Servers (4:3-2)

Informal Description: The world today is relies heavily on networks. This course introduces students to Windows 2003, and how to set up, modify and maintain a Windows based LAN.

Textbooks/Reference/Materials

- Required: Introduction to Windows Server 2003, Eric Ecklund, ISBN 0-07-223097-5
- Optional: MCSE Guide to Managing a Microsoft Windows Server 2003 Environment, Dan DiNicolo, ISBN 0-6195-12035-5
- Access to <http://www.templejc.edu/dept/cis/CCollins/Collins.htm>
- floppy disks or other file storage (home computer, removable USB drive, etc.)

Course Competencies

CIP Code: 11.0901 (Computer Systems Networking and Telecommunications)

Course Title: Administering Servers

Course Level: Intermediate

Course Description: Post-installation and day-to-day administration tasks of various network operating system servers.

Learning Outcomes: Create and manage user accounts and groups; set up and administer permission for files and folder; set up, administer, and troubleshoot network printing; monitor and manage network resources and security; and back up and restore files and folders.

Suggested Prerequisite: Fundamentals of Networking

COURSE CALENDAR

6 Week Semester	16 Week Semester	Notes	Lecture Topics	Labs
Week 1	Week 1		Syllabus/Orientation	
	Week 2			Lab 1 due
	Week 3			Lab 2 due
Week 2	Week 4			
	Week 5	Review		Lab 3 due
	Week 6	Test 1		Lab 4 due
Week 3	Week 7			Lab 5 due
	Week 8			Lab 6 due
	Week 9	Review		
Week 4	Week 10	Test 2		
	Week 11			Lab 7 due
	Week 12			Lab 8 due
Week 5	Week 13			Lab 9 due
	Week 14	Review		
	Week 15	Test 3		
Week 6	Week 16	Final		Capstone Lab 10 due

See course website for current semester's calendar, and holidays

Notes:

ITNW 2401, Continued :The BIG Picture, planting seeds and Lexicon: the language of networking

Goal of networking:

1. Access control
 - a. Who can
 - i. Read
 - ii. Write
 - iii. Execute
 - iv. Create
 - v. Modify
 - vi. Delete
 - vii. List files
 - b. Access given to”
 - i. Individual User(owner of file)
 - ii. Group of users
 - iii. Others
2. Resources Control
 - a. Files
 - b. Printers
 - c. Etc.
3. Timeline
 - a. Set up network
 - i. Topologies
 1. bus
 2. star
 3. ring
 4. hybrid
 - ii. Connectivity
 1. bridges
 - a. hubs, routers, switches
 2. gateway devices
 - iii. protocols
 1. IEEE
 - a. 802.3 Ethernet
 - i. 10/100 Mb
 - b. 802.11 b-g
 - i. 4-11-54 Mb
 - b. Set up server
 - i. Services
 1. Domain Name Controller
 2. Dynamic Host Configuration Protocol
 3. Web
 4. Mail
 5. PDC vs. BDCetc.
 - c. Set up groups
 - d. Set up users
 - i. When can they use resources
 - ii. What can they see and use
 - iii. Where can they access network
 - iv. How much storage and bandwidth should be allocated
 - e. Maintenance
 - f. Security
 - g. Limitations