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CS 487.01: Network System Administration

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The University Of Montana

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NETWORK SYSTEM ADMINISTRATION (CS487)
Fall 2000 Syllabus

Class Meetings:	Monday Lecture, 4:10-5:30, SS344 Tuesday/Wednesday Structured Lab, 4:10-5:30, SS421
Instructor:	Anne A. Stenberg, MCSE, MCP+I, MCP
Office:	SS420

Office Hours:

Monday	Tuesday	Wednesday	Thursday
1-3 p.m.	8-9 a.m. & 1-2 p.m.	1-3 p.m.	8-9 a.m. & 1-2 p.m.

Messages:	Phone: (406)243-4618 E-mail: stenberg@cs.umt.edu
Web Site:	http://www.cs.umt.edu/u/stenberg or http://astenberg.pageout.net
TA:	TBA
Laboratory:	Social Science 421--Open 8 a.m. to 5 p.m. weekdays; usually 5-10 p.m. Sunday through Friday; and around 3-4 hours on Saturday.
Prerequisites:	*Lots* of experience using PC's. Some experience managing PC's would also be helpful. Knowledge of computer programming or networking is *not* necessary. This class is *not* for beginning computer users.
Required Text:	*Mastering Windows 2000 Server*, Mark Minasi, Sybex. **ISBN: 0-7821-2774-6**
Course Objectives:	To cover the basics of computer networking and operating systems To cover the practical aspects of administering a local area computer network with a strong emphasis on the Windows 2000 Server network operating system.
Exams:	Periodic written and production exams will be administered throughout the semester. Pop quizzes are a definite possibility. The final exam will be comprehensive. The **final exam** for will be **Monday, December 18, 2000** from **5:30-7:30 p.m.** in **SS344**.
Assignments:	There will be approximately one assignment per week. Due dates will be strictly adhered to. **Late assignments will not be accepted**. Each person, whether working as an individual or group, must **separately** write up the written portion of the assignment. Written assignments are to be typed, comprehensible, complete, and must include your class identification number in the top right corner. All assignments are to be ***handed in at the beginning of the class period*** on the day for which they are due, unless otherwise stated.

Plan on spending an average of 3-5 hours per assignment. 90% of all assignments must be done in the Network System Administration Lab in SS421.

Grading: Grading will be roughly 50/50. **Late homework will not be accepted.** Incompletes will be given only under unusual circumstances.

Important Dates:

9/25:	Last day to Drop/Add by Dial-Bear
10/16:	Drop/Add—No $$$ Back & Grade Option Change
11/7:	**NO CLASSES—Election Day Holiday**
11/10:	**NO CLASSES—Veteran's Day Holiday**
11/22-24:	**NO CLASSES—Thanksgiving Holiday**
12/8:	Last day to withdraw
12/15:	Last day for drop petition
12/18:	**CS487 FINAL EXAM**

Topics:

❖ Overview
  ➢ Networks and operating systems
  ➢ Layers, protocols, connection-oriented vs. connectionless protocols
  ➢ Ethernet: physical media, interface cards, hubs, switches, bridges
  ➢ Wide area networking options: modems, ISDN, leased lines, frame relay, ATM
  ➢ Managing multiple servers: trust relationships, directory services
  ➢ Disaster planning: backups, fault-tolerant systems, viruses, and disaster plans
  ➢ Network management tools: protocol analyzers, inventory and diagnostic tools, software installation

❖ In-Depth Study
  ➢ Setting up user accounts and file sharing on a Windows 2000 Server environment
  ➢ Windows 2000 server installation and setup
  ➢ Installing and configuring network interface cards
  ➢ File and disk management
  ➢ Printers and printer management
  ➢ IP addressing & subnet masking

❖ Ethics Of System Administration