

Spring 2005

# CEG 210-01: PC Networking I

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# CEG210 PC Networking I

**Instructor:** Karen Meyer  
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**Office Phone:** (937)775-5131  
**Email Address:** [karen.meyer@wright.edu](mailto:karen.meyer@wright.edu)  
**WebCT:** <http://wisdom.wright.edu> I will post assignments on WebCT  
**Class Meetings:** MW 8:45 – 10:25 AM 346 RC  
**Office Hours:** MW 10:25 – 11:00 AM (344 Russ)  
**Advising Hours (303 Russ)**  
 MW 1:00 – 3:00 PM, T 10:00 – 12:30 PM  
 Th. 9:00 – 12:00 PM  
 Please call 775-5131 to make an appointment to see me during advising hours.

**Course Description:** Introduction to PC networking hardware, concepts, and technologies. Focus is on LAN administration, and hardware and software configuration.

**Textbooks:** Guide to Novell Netware 6.0 or 6.0/6.5 Administration by Ted L. Simpson and Michael T. Simpson – Recommended, Also 2 copies are on reserve in the Dunbar Library

**Prerequisites:** CS205 **Credit Hours:** 4

**Goals:** The primary goal is to introduce students to the concepts and skills needed to understand and administer a Local Area Network.

- Topics:**
1. Introduction to networking concepts including topics covering technologies, protocols, cable types, OSI model and networking models
  2. Overview of hardware as related to networking including file server and workstation requirements
  3. Planning and designing the network
  4. Creating the file system, users, groups and resources
  5. Managing the network including implementation of security, application installation, maintenance and automation of routine procedures and scripting
  6. System administration best practices
  7. Looking ahead to new directions and technologies

**Teaching Methodology:** Teaching methodology includes a combination of lecture, discussion and laboratory assignments.

**Grading:**

Exam 1	20 %
Exam 2	20 %
Exam 3	25 %
Labs	15 %
Final Project	20 %

**Best Practice:**

Print PowerPoint slides that are available on WebCT (Course Content and Related Material/Slides and Notes) as Handouts – 3 per page. Print and bring to class so you can take notes in the space on the right hand side of the page.

Also, print the text for these supplemental information notes:

Chapters 1 and 3:

IEEE Standards

[www.ieee.org](http://www.ieee.org) Print page on *About Us* and *Standards*

OSI Model

[http://www.ussg.iu.edu/usail/network/nfs/network\\_layers.html](http://www.ussg.iu.edu/usail/network/nfs/network_layers.html)

[http://bitsonawire.com/basic\\_osi\\_model.asp](http://bitsonawire.com/basic_osi_model.asp)

Ethernet:

<http://www.yale.edu/pclt/COMM/ETHER.HTM>

TCP/IP

<http://www.yale.edu/pclt/COMM/TCPIP.HTM>

[http://www.doc.ic.ac.uk/~ih/doc/pc\\_conn/tcpip/intro/intro0.html](http://www.doc.ic.ac.uk/~ih/doc/pc_conn/tcpip/intro/intro0.html) (for reference, do not print, yet)

Other links to reference materials will be given to you in class.

**Course and Laboratory Polices:**

From this lab, you may only access Internet sites related to this course. Refer to the Responsible Use of Information

Technology Guidelines. <http://www.wright.edu/cwis/policies/itpolicy.html>

You are responsible for doing your own work. You may not accept files from other students or give files to other students.

Academic Misconduct guidelines will be followed. Refer to the following web site for details:

[http://www.wright.edu/students/judicial/stu\\_integrity.html](http://www.wright.edu/students/judicial/stu_integrity.html)

Attendance in class is expected. It may be used subjectively to raise borderline grades.

If you miss class, you are responsible for getting the assignment and any adjustments announced in class. You are welcome to visit me during office hours for makeup work. Please check WebCT email and discussions for notes and announcements.

Before you leave the lab, perform a system shutdown and power off the PC and monitor.

**The final letter grade will be based on the following tentative scale:**

90 - 100%	A
80 - 89 %	B
70 - 79 %	C
60 - 69 %	D
59 % and below	F

**Assignment/Exam Policy:**

10 % will be deducted for each day an assignment is late. No credit will be given for assignments over one week late. Assignments done *in class* cannot be made up for credit. If you know that you will miss an exam, you may take it early, otherwise make-ups will be given on the last day of class. Please provide documentation.

**You will have card access to this lab and may use the lab when there is not another class in session.**

**Link to Open Lab Schedule:** <http://www.cs.wright.edu/cse/students/labschedule.shtml>

**Copies of the course textbook are available at the Course Reserve desk in the Library.**

## Tentative Schedule

Week	Topic	Reading	Assignment
1 3-27	Course Overview, Networking Basics  Designing the Network	Ch 1, omit pp 30-35  Ch. 3	
2 4-3	Designing the Network, cont.  Planning the eDirectory Tree	Ch 3  Ch 4	<b>Lab 1: Network Design</b>
3 4-10	Planning the eDirectory Tree, (cont) (Review Sheet Given)  Creating the eDirectory Structure	Ch 4  Ch 7 to p. 232	
4 4-17  4-19	Review for Exam and <b>Planning the Network File System</b>  <b>Exam 1</b> Chapters 1,3,4,7	Ch 5 to p 267	<b>Lab 2: Plan, Design, and Create an E-directory tree and Network based File System</b>
5 4-24	Creating the Network File System  Installing a Server Operating System, Configuring Workstations	Ch 8  Ch 6	<b>Lab 3: Plan and Implement Drive Mappings and Manage Work Stations</b>
6 5-8	Managing Users, Groups and Login Security Managing Trustee Assignments and File Attributes	Ch 9  Ch 10	
7 5-15	Review for Exam 2, Ch 10, cont.  <b>Exam 2</b> Chapters 5,6,8		<b>Lab 4: Plan and Implement Network Security</b>
8 5-22	Managing the User Desktop Environment	Ch 12	<b>Lab 5: Write and Execute Login Scripts</b>
9 5-29	NO CLASS – Memorial Day  System Administration Best Practices		
10 6-1  6-3	Open Lab, Help on Project, Review  <b>Exam 3</b> Chapters 9,10,11,12 (final exam)		
<b>Finals Week</b>	Meet during designated exam time in 346 Russ to demonstrate final project, Time TBA		<b>Clean up your Practice OU and Delete Folders, Handout</b>

### Spring Quarter 2006

March 27, Monday First Day of Spring Quarter Classes

April 14, Friday Last Day for All Students to Drop a Class Without a Grade

May 12, Friday Last Day for All Students to Drop a Class With a Grade of W

May 29, Monday Memorial Day Holiday Observed (University Closed)

June 3, Saturday Last Day of Spring Quarter Classes

