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Fall 2006

CEG 210: PC Networking I

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Syllabus
CEG 210 PC Networking I

General Course Information

Instructor: Karen Meyer
Office: 344 Russ Engineering Center
Office Hours: M, W 8:30 – 9:30 AM, after class and by appointment
Advising Hours: M, W 1:00 – 3:00 PM, T, Th 9:00 AM – Noon, F 9:30 – 11:00 AM
Please call X 5131 to make an appointment during advising hours
Located in 303 Russ
Phone: 775-5104 or 775-5131
E-mail: karen.meyer@wright.edu
Web site: <http://wisdom.wright.edu> (WebCT)
Classroom: 346 Russ Engineering Center
Class Times: MW 9:45 – 11:25 AM

Prerequisites: CS 205 **Credit Hours:** 4

Textbook: Greg Tomsho, *Guide to Networking Essentials, Fifth Edition*. Course Technology Incorporated, 2007, ISBN: 1-4188-3718-0. ISBN-13: 978-1-4188-3718-1 - **Required**

Additional Materials

Slides, Reference material found on WebCT
You will need a Notebook or Binder for Hands-On Projects and Cases

Course Description

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

Course Goals

At the end of the quarter the student will be able to:

- design and configure a client server network
- create and manage network objects
- plan and implement directory services and network file systems
- plan and implement network security
- design and write network login scripts
- manage and solve problems related to a client server network

Specific Topic Coverage Includes:

- Introduction to Networks and Networking Concepts
- Network Design Essentials
- Networking Media and Cards
- Network Communications and Protocols
- Client Server Networks including Introduction to Netware, MS XP/2003 Server and Linux Operating Systems
- Introduction to Network Security
- Supporting a Small Business Network
- Network Administration and Support

- Enterprise and Wide Area Networks

Course Format

A combination of lecture, demonstration and lab activities will be used during class. Typically, the first part of the class will be dedicated to lecture and the remainder of the class will be used to complete lab-based assignments.

Grading and Evaluation Criteria

Exam 1	20 %
Exam 2	20 %
Exam 3	20 %
Labs/Notebook	25 %
Final Lab	15 %

* Notebooks are used for Hands on Projects and Cases. The notebooks are due on the day of the exam.

The following tentative scale will be used to calculate your grade:

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>

Academic Integrity

It is the policy of Wright State University to uphold and support standards of personal honesty and integrity for all students consistent with the goals of a community of scholars and students seeking knowledge and truth. Furthermore, it is the policy of the university to enforce these standards through fair and objective procedures governing instances of alleged dishonesty, cheating, and other academic misconduct. **The following recommendations are made for students:**

1. Be honest at all times.
2. Act fairly toward others. For example, do not disrupt or seek an unfair advantage over others by cheating, by talking, or by looking at other individuals' work during exams.
3. Take group as well as individual responsibility for honorable behavior. Collectively, as well as individually,

make every effort to prevent and avoid academic misconduct, and report acts of misconduct that you witness.

4. Do not turn in the same work in more than one class unless permission is received in advance from the professor.
5. Unless permitted by the instructor, do not collaborate with others on graded course work, including in class and take home tests, papers, or homework assignments.
6. Know what plagiarism is and take steps to avoid it. When using the words or ideas of another, even if paraphrased in your own words, cite the source(s).
7. Know the policy-ignorance is no defense. If you have any questions regarding academic misconduct, contact your instructor. Those who violate campus rules are subject to disciplinary action.

This information was obtained from Wright State's Office of Judicial Affairs. Complete information may be referenced at: <http://www.wright.edu/students/judicial/integrity.html>

Responsible Use of Information Technology

Wright State University provides computing, information, and communications resources for its students to support their learning and research. Access to these information technology resources is a privilege and requires adherence to this Information Technology policy as well as to other University policies, including but not limited to: World Wide Web (Wright Way 2001), Copyrighted Materials (Wright Way 2303), WSU Student Handbook, WSU Student Organization Handbook, and Student Housing Data Network Acceptable Use Policy.

Users of the University's information technology resources are also bound not only by those laws, policies, and regulations that are specific to computing, telecommunications, and networks, but also by all other international, federal, state, and local regulations and statutes that apply.

This policy applies to all use of the University's computing, information, and communications resources, whether administered by Computing and Telecommunications (CATS), by individual University colleges and departments, or by off-campus units that connect remotely to the University's network and operate under the aegis of Wright State University. Privately-owned machines, while attached to the University network, are subject to the same policies as University-owned computer systems.

Responsibility for the use of the University's computing, information, and communications resources by minors (persons under 18 years of age) rests with their parents or legal guardians.

This information was obtained from Wright State's Office of Judicial Affairs. Complete information may be found at: <http://www.wright.edu/cwis/policies/itpolicy.html>

Student Disabilities

Students with documented disabilities that require physical or academic accommodations must contact their Instructor during the first week of classes. To receive more information or to apply for services, contact the Office of Disability Services.

Course Outline(Tentative) Any adjustments to the schedule will be announced in class

Week	Topics	Chapter Readings	Lab Assignments (Hands-On Assignments & Cases on separate page)
1 W 9-6	Course Introduction, Introduction to Networks and Networking Concepts	Chapter 1	
2 M 9-11 W 9-13	Network Design Essentials Networking Media Network Interface Cards	Chapter 2 Chapter 3, omit section on categories 1-4, p.79, omit pp.83-83 Making TP Cable, omit pp 100-103 Chapter 4	
3 M 9-18 W 9-20	Simple Network Operations, Introduction to Directory Services	Chapter 8 omit pp 294-296 Naming services, omit pp 305-317 Installing... Handout	File System, Directory Services Lab
4 M 9-25 W 9-27	Exam 1 (Chs 1,2,3,4,8, directory services, drive mapping) Making Networks Work(OSI Model and Standards)	Chapter 5	
5 M 10-2 W 10-4	Network Communications and Protocols(IP Addressing) Network Architectures	Chapter 6 Chapter 7	
6 M 10-9 W 10-11	Understanding Complex Networks Enterprise and Wide Area Networks	Chapter 9 Chapter 13	
7 10-16 10-18	Exam 2 Introduction to Network Security Netware Security	Chapter 10 Handout	Network Security Lab
8 10-23 10-25	Supporting a Small Business Network Network Administration and Support Topics include Drive Mapping and Login Scripts	Chapter 11 Chapter 12 Ch 8 pp 294-296 Naming services, p 313 file shares	Final Lab
9 M 10-30 W 11-1	Delivering Applications Solving Network Problems	Handout Chapter 14	
10 M 11-6 W 11-8	Wrap Up/Open Lab/Extra Credit Presentations Exam 3 – Last Day of Class		

Final Lab Project will be due during Finals Week. Date TBA

Important Dates for Fall Quarter 2006:

September 5, Tuesday	First Day of Fall Quarter Classes (Labor Day is Monday, September 4, University Closed)
September 25, Monday	Last Day for All Students to Drop a Class Without a Grade
October 23, Monday	Last Day for All Students to Drop a Class With a Grade of W
November 10, Friday	Veteran's Day Holiday Observed (University Closed)
November 11, Saturday	Last Day of Fall Quarter Classes
November 13-18, Mon. - Sat.	Final Examinations
November 18, Saturday	Fall Commencement