

Spring 2009

CEG 210-01: PC Networking I

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SYLLABUS

CEG 210 PC Networking I - Spring 2009

General Course Information

Instructor: Karen Meyer
Office: 344 Russ Engineering Center
Phone: 775-5131
E-mail: karen.meyer@wright.edu Use this address rather than WebCT mail

Class Times: 10:25 am - 12:05 pm TR
Classroom: 346 Russ Engineering Center
Office Hours: TR 9:15 – 10:00 AM and by appointment
Advising Hours: You are welcome to visit during advising hours. Please call 775-5131 to make an appointment. The advising office is located in 303 Russ

Web site: <http://wisdom.wright.edu> (WebCT)

Prerequisites: CS 205 or CS 240
Credit Hours: 4

Textbook: Michael Palmer, Hands-On Networking Fundamentals. Course Technology Incorporated, 2006, ISBN 1-4188-3554-4

Additional Materials

Slides, Reference material found on WebCT

Course Description

Introduction to networking technologies including infrastructure and architectures, standards, protocols and directory services, administration, security and management. Integrated lecture and lab.

Topic Coverage:

The course includes many hands-on activities along with realistic case studies. Students also learn practical design methods for home, small business, and large enterprise networks.

Specific topic coverage includes:

- Networking: An Overview
- How LAN and WAN Communications Work
- Using Network Communication Protocols
- Connecting Through a Cabled Network
- Devices for Connecting Networks
- Connecting Through a Wireless Network
- Sharing Resources on a Network
- Using a Server
- Basic Network Design
- Securing Your Network
- Maintaining the Networking

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 and cases.

Grading and Evaluation Criteria

Exam 1	30 %
Exam 2	30 %
Labs/Cases/Activities	17 %
Final Project	23 %

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 and Exam Policy: 10 % will be deducted for each day an assignment is late. No credit will be given for assignments over 2 days late. Lab assignments/cases/activities done *in class* cannot be made up for credit. The points earned from these assignments will be recorded as *soft points*.

If you know that you will be out of town on an exam date, you may take it early – with Instructor permission. Otherwise, exams *may* be made up at discretion of the Instructor - if advance notice is given and proper documentation is supplied. Generally, make-up exams are given on the last day of class.

Link to 346 Class/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.

Academic Calendar Spring Quarter 2009

March 30, Monday	First Day of Spring Quarter Classes
April 17, Friday	Last Day for All Students to Drop a Class Without a Grade
May 15, Friday	Last Day for All Students to Drop a Class With a Grade of W
May 25, Monday	Memorial Day Holiday (University Closed)
June 6, Saturday	Last Day of Spring Quarter Classes
June 8-13, Mon. - Sat.	Final Examinations
June 13, Saturday	Spring Commencement

Course Outline (Tentative) Any adjustments to the schedule will be announced in class. Specific Lab Assignments can be found on WebCT. All reading assignments refer to the Palmer book unless otherwise indicated.

Week	Topics	Chapter Readings	Lab Assignments & Activities
1 T 3-31 R 4-2	Course Introduction, Begin Chapter 1 Networking An Overview	Chapter 1	
2 T 4-7 R 4-9	How LAN and WAN Communications Work Overview of Network Protocols	Chapter 2 Chapter 3, omit pp77-82	Assigned Activities
3 T 4-14 R 4-16	Network Protocols, continued Connecting Through A Cabled Network Devices for Connecting Networks (Selected Topics – see slides)	Chapter 3 Chapter 4 Chapter 5 – Terms to emphasize: collision domain, hub, bridge, hop, broadcast storm, flooding, router, static and dynamic routing, switch-managed and unmanaged, gateway	Assigned Activities Hardware Lab
4 T 4-21 R 4-23	NICs, Chapter 5 FINISH LAB, Begin Chapter 7, Review Sheet for EXAM 1		Hardware Lab, continued
5 T 4-28 R 4-30	EXAM 1 (Chs 1,2,3, 4,5) Sharing Resources on a Network, cont.		Network Installation Lab
6 T 5-5 R 5-7	Using A Server Directory Services	Chapter 7 Chapter 8, omit pp 282(from installing ..) to 283 See Slides and Notes on WebCT.	Mapping, Security Lab
7 T 5-12 R 5-14	File Systems Securing Your Network	Notes Notes, Chapter 11	Lab, continued
8 T 5-19 R 5-21	Securing Your Network, cont. Connecting Through a Wireless Network	Chapter 11 Chapter 6	Protocol Analyzer Lab
9 T 5-26 R 5-28	Basic Network Design Wrap Up/Review Sheet	Chapter 10	
10 T 6-2 R 6-4	Final Projects Final Projects		

EXAM 2 is Thursday, June 11th 10:45 AM – 12:45 PM