

Winter 2011

CEG 210: PC Networking I

Jerry Hensley

Wright State University - Main Campus, jerry.hensley@wright.edu

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Syllabus
CEG 210 PC Networking I
Winter 2011

General Course Information

Instructor: Jerry Hensley
Office: LX 040H Library Annex
Office Hours: After class and by appointment
Phone: 937-775-2349
E-mail: jerry.hensley@wright.edu
Web site: <http://www.wright.edu/~jerry.hensley>
Classroom: 346 Russ Engineering Center
Class Times: MW 4:10 – 5:50 PM
Credit Hours: 4

Prerequisites: CS 205

Textbook: Tamara Dean, Network+ Guide to Networks, Fifth Edition, *Course Technology Incorporated, 2010*
ISBN-13: 978-1-423-90245-4 or 10: 1-423-90245-9.

Additional Materials

Slides, Reference material found on
<http://pilot.wright.edu/>

Course Description

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

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 and cases.

Topic Coverage:

This course first introduces the fundamental building blocks that form a modern network, such as protocols, topologies, hardware, and network operating systems. It then provides coverage of important concepts in contemporary networking, such as TCP/IP, Ethernet, wireless transmission, and security. The course will prepare you to select the best network design, hardware, and software for your environment. You will also learn the skills to build a network from scratch and maintain, upgrade, and troubleshoot an existing network.

Specific topic coverage includes:

- An Introduction to Networking
- Networking Standards and the OSI Model
- Transmission Basics and Networking Media
- Introduction to TCP/IP Protocols
- Topologies and Ethernet Standards
- Network Hardware
- Wireless Networking

- Network Operating Systems
- In-Depth TCP/IP Networking
- Network Security
- Troubleshooting Network Problems
- Ensuring Integrity and Availability
- Network Management

Grading and Evaluation Criteria

Exam 1	30%
Exam 2 (FINAL EXAM)	30%
Labs/Cases/Activities	20%
Final Project	20%

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.

If you know that you will miss an exam, you may take it early, 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.

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

Link to 346 Class/Lab Schedule: <http://www.cs.wright.edu/cse/students/lab-schedules.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>

Students With 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 775-5680.

IMPORTANT DATES for WINTER QUARTER 2010

2011	Winter Quarter
Dec 31	New Year's Day Holiday; University Closed
Jan 03	First day of Winter Quarter Classes
Jan 07	Last day to register, add classes or drop/withdraw and receive 100% refund of fees in person. Last day to change audit status (must be done in person). Last day for international students to register without approval from UCIE (must be done in person). Students with holds must come to the registration windows before 5 pm to drop or withdraw.
Jan 09	Last day to register, add classes or drop/withdraw and receive 100% refund of fees using WINGS Express.
Jan 10	70% refund period begins
Jan 14	Last day to register or add classes without \$250 late registration fee (must be done in person).
Jan 17	Martin Luther King, Jr. Holiday; University Closed (official census date)
Jan 18	Last day to drop classes or withdraw and receive 70% refund of fees. Last day to cancel student health insurance. Late registration/add fee of \$250 begins. Students with holds must come to the registration windows before 5 pm to drop or withdraw.
Jan 21	Last day for ALL students to drop a class without a grade
Feb 18	Last day for ALL students to drop a class with a grade of W (not calculated in grade point average). Students with holds must come to the registration windows before 5 pm to drop or withdraw.
Mar 01	Last day to apply for June graduation
Mar 12	Last day of Winter Quarter Classes
Mar 14-19	Final Examinations
Mar 23	Grades due by Noon

CEG210-01 Winter 2011 Course Outline
Effective: January 3, 2011

DATE	LECTURE TOPIC	READING	LAB
1/3/2011	Course Introduction	Chapter 1	HOP 1-1
1/5/2011	An Introduction to Networking		HOP 1-2
1/10/2011	Networking Standards and the OSI Model	Chapter 2	HOP 2-3(#1-4), whose NIC is it, Case 2-2
1/12/2011	Transmission Basics and Networking Media	Chapter 3	LAB 3
1/17/2011	Martin Luther King, Jr. Holiday; University Closed		
1/19/2011	Introduction to TCP/IP Protocols	Chapter 4	LAB 4
1/24/2011	In-Depth TCP/IP Networking	Chapter 10	LAB 5
1/26/2011	Troubleshooting Network Problems Wrap Up, Review Exam 1	Chapter 13	No Lab
1/31/2011	EXAM 1		
2/2/2011	Topologies and Ethernet Standards	Chapter 5	LAB 6
2/7/2011	Network Hardware (NICs, switches, routers)	Chapter 6	LAB 7
2/9/2011	Network Operating Systems	Chapter 9	LAB 8
2/14/2011	Open Lab, In-Class Simulations		No Lab
2/16/2011	Network Security	Chapter 12	LAB 9
2/21/2011	Security Continued		TBA
2/23/2011	WIRELESS	Chapter 8	LAB 10
2/28/2011	Ensuring Integrity and Availability, Network	Chapter 14	TBA
3/2/2011	Network Management	Chapter 15	TBA
3/7/2011	FINAL PROJECTS		
3/9/2011	FINAL PROJECTS		
3/14/2011	FINAL EXAM – 5:45 to 7:45 in 346 RUSS		