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Fall 2010

### CEG 210-01: PC Networking I

Chris P. Fickert

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**Syllabus**  
**CEG 210 PC Networking I**  
**Fall 2010**

**General Course Information**

**Instructor:** Chris Fickert  
**Office:** 346 Russ Engineering Center  
**Office Hours:** After class and by appointment  
**Phone:** Leave message at CS&E Office  
**E-mail:** [chris.fickert@wright.edu](mailto:chris.fickert@wright.edu)  
**Web site:** <http://www.wright.edu/~chris.fickert>  
**Classroom:** 346 Russ Engineering Center  
**Class Times:** MW 4:10 – 5:50 PM

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

**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://www.wright.edu/~chris.fickert/CEG210/>

**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	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>

## **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.

### **Important Dates for Fall Quarter 2010**

September 7 Tuesday	First Day of Fall Quarter Classes (Labor Day is Monday, September 6, University Closed)
September 27 Monday	Last Day for All Students to Drop a Class Without a Grade
October 25 Monday	Last Day for All Students to Drop a Class With a Grade of W
November 11 Thursday	Veteran's Day Holiday Observed (University Closed)
November 13 Saturday	Last Day of Fall Quarter Classes
November 15-20 Mon. - Sat.	Final Examinations
November 20 Saturday	Fall Commencement

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

<b>Week</b>	<b>Topics</b>	<b>Chapter Readings</b>	<b>Lab Assignments &amp; Activities</b>
1	Course Introduction An Introduction to Networking	Chapter 1	In Class, Hands-On Projects(HOP) 1-1, HOP 1-2
2	Networking Standards and the OSI Model  Transmission Basics and Networking Media	Chapter 2  Chapter 3	HOP 2-3(#1-4), whose NIC is it, Case 2-2 TBA
3	Introduction to TCP/IP Protocols In-Depth TCP/IP Networking	Chapter 4 Chapter 10	TBA TBA
4	Troubleshooting Network Problems Wrap Up, Review Exam 1, Begin Next Section Topologies and Ethernet Standards	Chapter 13  Chapter 5	TBA  TBA
5	<b>EXAM 1</b> Topologies and Ethernet Standards	Chapter 5	TBA
6	Network Hardware (NICs, switches, routers) Network Operating Systems NOS, Directory Services	Chapter 6  Chapter 9	TBA  TBA
7	Open Lab, In-Class simulations Network Security	Chapter 12	TBA TBA
8	Security, cont. Wireless	Chapter 8	TBA
9	Ensuring Integrity and Availability Network Management	Chapter 14 Chapter 15	TBA TBA
10	Final Projects Final Projects		

EXAM 2 is during Finals Week standard time