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College of Engineering and Computer Science

Fall 2008

CEG 210: PC Networking I

Karen Meyer

Wright State University - Main Campus, karen.meyer@wright.edu

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SYLLABUS
CEG 210 PC Networking I Fall 2008

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)
Office Hours: MW 9:00 – 9:40 AM and by appointment

Class Times: MW 9:45 AM – 11:25 AM
Classroom: 346 Russ Engineering Center

Advising Hours: Please call 775-5131 to make an appointment during advising hours
 Located in 303 Russ

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

Prerequisites: CS 205 or CS 240
Credit Hours: 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 and Troubleshooting Your Network

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 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/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. The points earned from these assignments will be recorded as soft points. 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/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.
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.

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 Fall Quarter 2008

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>September 8, Monday</td>
<td>First Day of Fall Quarter Classes</td>
</tr>
<tr>
<td>September 26, Friday</td>
<td>Last Day for All Students to Drop a Class Without a Grade</td>
</tr>
<tr>
<td>October 24, Friday</td>
<td>Last Day for All Students to Drop a Class With a Grade of W</td>
</tr>
<tr>
<td>November 11, Tuesday</td>
<td>Veteran's Day Holiday Observed (University Closed)</td>
</tr>
<tr>
<td>November 15, Saturday</td>
<td>Last Day of Fall Quarter Classes</td>
</tr>
<tr>
<td>November 17-22, Mon. - Sat.</td>
<td>Final Examinations</td>
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<tr>
<td>November 22, Saturday</td>
<td>Fall Commencement</td>
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</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Week</th>
<th>Topics</th>
<th>Chapter Readings</th>
<th>Lab Assignments &amp; Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 M 9-8</td>
<td>Course Introduction, Begin Chapter 1 Networking An Overview</td>
<td>Chapter 1</td>
<td>In Class Activity</td>
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<tr>
<td>W 9-10</td>
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<tr>
<td>2 M 9-15</td>
<td>How LAN and WAN Communications Work</td>
<td>Chapter 2</td>
<td>Assigned Activities</td>
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<tr>
<td>W 9-17</td>
<td>Overview of Network Protocols</td>
<td>Chapter 3, omit pp77-82</td>
<td></td>
</tr>
<tr>
<td>3 M 9-22</td>
<td>Network Protocols, continued</td>
<td>Chapter 3</td>
<td>Assigned Activities</td>
</tr>
<tr>
<td>W 9-24</td>
<td>Connecting Through A Cabled Network Devices for Connecting Networks (Selected Topics – see slides)</td>
<td>Chapter 4</td>
<td>Lab</td>
</tr>
<tr>
<td>4 M 9-29</td>
<td>Wrap Up/Review Sheet/Lab, Begin Ch 7 if time permits</td>
<td>Chapter 7</td>
<td>Assigned Activities</td>
</tr>
<tr>
<td>W 10-1</td>
<td>Exam 1 (Chs 1,2,3, 4,5)</td>
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<tr>
<td>5 M 10-6</td>
<td>Sharing Resources on a Network</td>
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<tr>
<td>W 10-8</td>
<td>NO LECTURE TODAY, Work on Assigned Activities/Lab</td>
<td>Chapter 8, omit pp 282(from installing ..) to 283 See Slides and Notes on WebCT.</td>
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<tr>
<td>6 M 10-13</td>
<td>Using A Server</td>
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<td>W 10-15</td>
<td>Directory Services</td>
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<tr>
<td>7 M 10-20</td>
<td>Connecting Through a Wireless Network Basic Network Design</td>
<td>Chapter 6</td>
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<td>W 10-22</td>
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<tr>
<td>8 M 10-27</td>
<td>Securing Your Network</td>
<td>Chapter 10</td>
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<tr>
<td>W 10-29</td>
<td>Securing Your Network, cont.</td>
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<tr>
<td>9 M 11-3</td>
<td>Maintaining and Troubleshooting Your Network Wrap Up/Review Sheet</td>
<td>Chapter 11</td>
<td>Lab</td>
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<td>W 11-5</td>
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<tr>
<td>10 M 11-10</td>
<td>Final Projects</td>
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<td>W 11-12</td>
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EXAM 2 is Wednesday, November 19th at 8:30 AM.