Winter 2008

CEG 210-01: PC Networking I

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

Follow this and additional works at: https://corescholar.libraries.wright.edu/cecs_syllabi
Part of the Computer Engineering Commons, and the Computer Sciences Commons

Repository Citation
https://corescholar.libraries.wright.edu/cecs_syllabi/1194

This Syllabus is brought to you for free and open access by the College of Engineering & Computer Science at CORE Scholar. It has been accepted for inclusion in Computer Science & Engineering Syllabi by an authorized administrator of CORE Scholar. For more information, please contact corescholar@www.libraries.wright.edu, library-corescholar@wright.edu.
General Course Information

Instructor: Karen Meyer
Office: 344 Russ Engineering Center
Office Hours: T, Th 9:45 – 10:20 am and by appointment
Advising Hours: Please call X 5131 to make an appointment during advising hours
Located in 303 Russ
Phone: 775-5131
E-mail: karen.meyer@wright.edu Use this address rather than WebCT mail)
Web site: http://wisdom.wright.edu (WebCT)
Classroom: 346 Russ Engineering Center
Class Times: T, Th 10:25 AM – 12:05 PM

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.

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
- understand current network protocols including TCP/IP
- plan and implement directory services and network file systems
- plan and implement network security
- design and write server based login scripts and deliver desktop applications
- manage and solve problems related to a client server network
- stay current with new networking related technologies

Specific Topic Coverage Includes:
- Introduction to Networks and Networking Concepts
- Network Design Essentials
- Networking Media and Cards
- Directory Services
- Network Communications, Protocols and Architectures
- Introduction to Network File Systems, Security, Scripts and Desktop Management
- Network Administration, Support and Management
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.

Grading and Evaluation Criteria
Exam 1 22 %
Exam 2 22 %
Exam 3 22 %
Labs/Cases/Current Event 12 %
Final Lab Project 22%

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.

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.

**Winter Quarter Important Dates**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 7, Monday</td>
<td>First day of Winter Quarter Classes</td>
</tr>
<tr>
<td>January 21, Monday</td>
<td>Martin Luther King, Jr. Holiday (University Closed)</td>
</tr>
<tr>
<td>January 25, Friday</td>
<td>Last Day for All Students to Drop a Class Without a Grade</td>
</tr>
<tr>
<td>February 22, Friday</td>
<td>Last Day for All Students to Drop a Class With a Grade of W</td>
</tr>
<tr>
<td>March 15, Saturday</td>
<td>Last Day of Winter Quarter Classes</td>
</tr>
<tr>
<td>March 17-22, Mon. - Sat.</td>
<td>Final Examinations</td>
</tr>
</tbody>
</table>
Course Outline (Tentative) Any adjustments to the schedule will be announced in class. Specific Lab Assignments can be found on WebCT.

<table>
<thead>
<tr>
<th>Week</th>
<th>Topics</th>
<th>Chapter Readings</th>
<th>Lab Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 T 1-8 R 1-10</td>
<td>Course Introduction, Begin Chapter 1 Introduction to Networks and Networking Concepts</td>
<td>Chapter 1</td>
<td></td>
</tr>
<tr>
<td>2 T 1-15 R 1-17</td>
<td>Network Design Essentials</td>
<td>Chapter 2</td>
<td>Ch 2 Hands-On Projects, In-Class (groups) Ch 3 Projects and Cases As Assigned on WebCT</td>
</tr>
<tr>
<td>3 T 1-22 R 1-24</td>
<td>Network Interface Cards AND Introduction to Directory Services</td>
<td>Chapter 4 Scan, use slides as outline</td>
<td>Hardware Lab</td>
</tr>
<tr>
<td>4 T 1-29 R 1-31</td>
<td>Wrap Up/Review Sheet/Lab, Begin Ch. 5 if time permits Exams 1 (Chs 1,2,3, (4and 8-as assigned)), directory services-sheets and notes</td>
<td>Chapter 5</td>
<td>Case Projects and IP Problems as assigned</td>
</tr>
<tr>
<td>5 T 2-5 R 2-7</td>
<td>Making Networks Work(OSI Model and Standards)</td>
<td>Chapter 6</td>
<td></td>
</tr>
<tr>
<td>6 T 2-12 R 2-14</td>
<td>Network Communications and Protocol, cont. Network Architectures</td>
<td>Chapter 7- omit: demand priority, polling, ATM, SONET, HIPPI</td>
<td>Ch 7 Cases as Assigned, Protocol Analyzer Lab</td>
</tr>
<tr>
<td>7 T 2-19 R 2-21</td>
<td>Wrap Up/Review Sheet, Begin Disk Sub Systems, if time Exams 2 (Chs 5,6, and 7)</td>
<td>Chapter 12 pp 464-467, Ch 8 pp 294-296, Slides, Chapter 10 and Slides, Ch 12 pp 442-451</td>
<td>File System Lab</td>
</tr>
<tr>
<td>8 T 2-26 R 2-28</td>
<td>Disk Sub Systems, Network File Systems</td>
<td>Ch 12 pp 464-467, Ch 8 pp 294-296, Slides, Chapter 10 and Slides, Ch 12 pp 442-451</td>
<td>Network Security Lab</td>
</tr>
<tr>
<td>9 T 3-4 T 3-6</td>
<td>Netware Security, cont. Login Scripts/Managing the Desktop</td>
<td>Slides</td>
<td></td>
</tr>
<tr>
<td>10 T 3-11 R 3-13</td>
<td>Network Administration and Support, Networking Hardware and Equipment Exams 3 - Last Day of Class (Chs 12, 8, 10, 11 - as assigned)</td>
<td>Chapter 12 pp 452-464, Ch 11, pp 416-424-Servers and Network Equip.</td>
<td></td>
</tr>
</tbody>
</table>

Final Project is due during Finals Week on Thursday, March 20th at 10:45 AM in 346 RC