Spring 2008

CEG 211-01: PC Networking II

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SYLLABUS
CEG211-01 PC Networking II (Web Based) Spring 2008

Lecturer: Karen Meyer
Office: 344 Russ Center
Office Phone: (937)775-5131
Email Address: karen.meyer@wright.edu
WebCT: http://wisdom.wright.edu

Meeting Times: 9:00 am - 10:40 am MW (First Day of Class, and Exams Only)
Office Hours: MW 10:00 – 10:50 unless class is meeting
Advising Hours: T, R 9:00-11:00 AM, W 1:45-3:00 PM in 303 Russ Center. Please call 775-5131 to make an appointment.

Prerequisite: CEG 210
Credit Hours: 4

Course Objectives
The goal of this course is to prepare students for the real-world challenges of a networking professional. It is designed for students interested in network and server administration. The text includes extensive hands-on projects, exercises, and review questions in each chapter, which reinforce Microsoft Windows Server 2003 network administration skills as they are learned. Case projects at the end of each chapter allow students to take on the role of a network administrator, making decisions and troubleshooting real-life problems. Specific topic coverage includes: network administration and management, administering active directory, managing group policy, administering file resources, administering web resources in windows server 2003, administering TCP/IP, administering DNS, monitoring and troubleshooting network related problems.

Grading:
Exam 1: 30 %
Exam 2: 30 %
Journal: 20 %
Final Project: 20 %

The final letter grade will be based on the following tentative scale:

90 - 100 % A
80 - 89 % B
70 - 79 % C
60 - 69 % D
59 % and below F

Exam Policy:
10 % will be deducted for each day an assignment is late. No credit will be given for
assignments over one week late. If you know that you will miss an exam, you may take it early, otherwise make-ups will be given on the last day of class. Students will need to provide documentation. You will have card access to this lab and may use the lab when there is not another class in session.

Link to Open Lab Schedule:
http://www.cs.wright.edu/cse/students/lab-schedules.shtml

Course and Laboratory Policies:

1. From this lab, you may only access Internet sites related to this course. Refer to the web site below for a complete listing of guidelines: Responsible Use of Information Technology Guidelines.
http://www.wright.edu/cwis/policies/itpolicy.html
2. You are responsible for doing your own work. You may not accept files from other students or give files to other students. Academic Misconduct guidelines will be followed. Refer to the following web site for details:
http://www.wright.edu/students/judicial/stu_integrity.html

Course Format/Requirements
The course format is independent study supplemented with web based instructional materials using WebCT. Exams will be taken in a supervised classroom setting.

Each student will receive a CD that contains the MS Server 2003 operating system. It is packaged with your book. You may choose to install the operating system on a PC that you have available at home or you may elect to use a computer in 346 Russ Center. If you would like to use a computer off-site, the minimum hardware requirements are:
- Pentium III 550, 256 MB of RAM, dedicated partition with at least 500 MB of free disk space, CD-ROM drive

The class will meet a minimum of 3 times. The server installation meeting is optional.

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
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<tbody>
<tr>
<td>M, 3-31 at 9:00 AM</td>
<td>Present Syllabus, discuss course</td>
</tr>
<tr>
<td>W, 4-2 at 9:00 AM</td>
<td>Install Server Operating System in 346 (optional if using your own PC for installation)</td>
</tr>
<tr>
<td>W, 4-30 at 9:00 AM</td>
<td>Exam 1(covers chs 1,2,3,4) Journal/Lab Notes for Chs 1-4 Due</td>
</tr>
<tr>
<td>W, 6-4 at 9:00 AM</td>
<td>Exam 2(covers chs 5,7,8,9) Journal/Lab Notes for Chs 5,7,8,9 Due</td>
</tr>
<tr>
<td>M, 6-9 at Noon</td>
<td>Final Project Due(may upload through WebCT or drop off to department office in 303 Russ Center)</td>
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End of Chapter Review Questions
Answering the end of chapter review questions will help you prepare for the exams. The answers are posted on WebCT.
Exams:
Exams are a combination of multiple choice, true false and short answer. They will be given during the scheduled class time. Refer to the above schedule.

Final Project – see document posted on WebCT

Questions and Discussion Group Postings
Use the WebCT Discussion Group - General Course - to post any course related questions. Discussion Group postings should be recorded in the appropriate group. Other topics will be added as needed.

You will be required to post to certain questions related to your lab work. These questions are marked under the chapter assignment. This will be part of your journal grade.

Lab Journal
Throughout each chapter are a series of hands-on activities that will help you understand the Windows Server operating system. Keep a journal in electronic format to track the progress of the Activities throughout the chapters. The assigned activities will be listed on WebCT and also below. You will also answer several of the Case Project in your journal. Occasionally, you will be required to post an answer to a case project in the discussion group on WebCT.

What to include in the journal?
List the Chapter and the activities that you performed in each chapter. I have listed suggested activities, but you may do others if you wish. Your notes should include comments to describe results, network diagrams that you may make, information on configuration parameters and their meanings, description of alternative steps, and other information pertinent to the projects. Note that many of the activities do not require definitive answers. The notes that you make should help you understand the concepts covered in the chapter that you will later see on the exams.

The Case Projects require definitive answers. They do not require a hands-on lab assignment, however, the lab activities should help you answer the cases.

If you cannot complete an activity exactly as stated in the book, please handle any adjustments. Since you are working in a dynamic environment that could vary from the book, the instructions could be inexact. This is the real world of networking. Also, remember that web site locations do change so you may need to adapt to this. Also, since you may be working in an environment outside of WSU, there is no Instructor Server. You are installing the server in a stand alone tree. Your server is the Domain Controller. Do not spend inordinate amounts of time trying to complete an activity. If you have a problem, please note it in your journal, your attempts to adapt and proceed.

*Please note that when you add a new service (such as IIS), the installation CD is required.
Assignments: Also on WebCT.

Journal 1: Activities and Cases from the Book:
Please submit your answers with Exam 1. The Cases must be typed.

Chapter 1:
Focus on Introduction to Active Directory
Do: Activities (i.e. Act) 1-2, 1-3, 1-4

Case Project 1-1

Chapter 2:
Install Server Operating System.
Do: Act 2-2 Identify your NIC, Act. 2-4 Which level of driver signing did you set, why?
Act. 2-5 Record your answer to number 9., Act. 2-6 Set to show all files. Know meaning of RHSC and dlicache. Act 2-8 This relates to installing windows updates. You can also refer to the server installation notes. Record in your journal when key updates are installed.

A helpful link to the Server 2003 home page:
http://www.microsoft.com/windowsserver2003/default.mspx

Chapter 3:
Create a named account for you to use to login. Make this account a member of the Domain Admin group. Also, implement step 10 p. xvi as listed in your book. IMPORTANT TO BE ABLE TO LOGIN USERS LOCALLY!!

Do: Activities 3-1(Explore your domain NOT the domain listed in the book), 3-2, 3-3, 3-4, 3-5, 3-6, 3-7, 3-8, 3-9, 3-10, 3-11, 3-12, REMEMBER THE ACRONYM FOR MANAGING SECURITY GROUPS AND THEIR SCOPE. (P. 78) 3-13, 3-14

Case Projects 3-1, 3-3 Post on Discussion Group on WebCT. This is part of your grade.

Chapter 4:
Do: Activities 4-2, 4-6, 4-8 through 4-12, 14-19

Case Projects 4-1, 4-3

Turn in Journal Pages with Exam. Take Exam 1 in 346 Russ Center during class time!

Journal 2: Activities and Cases from the Book:
Please submit your answers with Exam 2. The Cases must be typed.
Chapter 5:
Make sure to pay attention to calculating permissions for Shares, NTFS and both. Look over review questions, especially 12-14 to understand how to calculate permissions.
Do: Activities: 5-1,5-2,5-3,5-4,5-6,5-7, 5-8,5-9,5-10,5-12

Case 5-3 Post on Discussion Group on WebCT, Case 5-4

Chapter 7:
Do: Activities: 1,2,3,4,5,7,13,14

Case Project: 7-1

Chapter 8:
Do: Act. 8-1 #4 use 130.108.5.26, default gateway is 130.108.7.1, 8-5, for IPCONFIG command, use: ipconfig /all and redirect output to the D:\NETSET folder (you will need to create the folder) to a file named ipconfig.txt Example: ipconfig /all >> d:\netset\ipconfig.txt. Print and add to your journal. 8-6,8-7,8-8, for pathping exercise, pathping unixapps1.wright.edu and redirect output to file in D:\NETSET as above. Print and add to your journal. What does this output mean? Using your book and Internet to determine what the data represent. Record in your journal.

Case Project: 8-1, #’s 3 and 4 only

Chapter 9:
Do: 9-14. Print file for journal, No other activities are required. Installing DNS is optional. 9-1 - 9.6 (if you install in 346 RC, modify for our network, and DELETE when finished). If DNS is configured incorrectly, you run the risk of losing your IP address resolution.

Case Projects 9-3 and 9-4, post replies to both on the WebCT Discussion group. Note that you may have varying opinions from your classmates. That is OK. Read your classmates postings and respond appropriately.

Take Exam 2 in 346 Russ Center during class time !

Extra Credit Opportunities:

Network Administrators are challenged with locating information to solve a wide array of problems they may encounter. Challenges may relate to operating system vulnerabilities and bugs, viruses, spam, security issues, bandwidth management, active directory design, end user support, DNS, TCP/IP and subnet configuration - to name a few. As you read the chapters and complete the labs, explore the Internet to attempt to find helpful information on the topics that you study. Include any links and copies of useful information in your journal. The source must be documented. Make sure that you mark this as extra credit.
**Spring Quarter 2008 Important Dates**

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<tr>
<th>Date</th>
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<tr>
<td>March 31, Monday</td>
<td>First Day of Spring Quarter Classes</td>
</tr>
<tr>
<td>April 18, Friday</td>
<td>Last Day for All Students to Drop a Class Without a Grade</td>
</tr>
<tr>
<td>May 16, Friday</td>
<td>Last Day for All Students to Drop a Class With a Grade of W</td>
</tr>
<tr>
<td>May 26, Monday</td>
<td>Memorial Day Holiday (University Closed)</td>
</tr>
<tr>
<td>June 7, Saturday</td>
<td>Last Day of Spring Quarter Classes</td>
</tr>
<tr>
<td>June 9-14, Mon. - Sat.</td>
<td>Final Examinations</td>
</tr>
<tr>
<td>June 14, Saturday</td>
<td>Spring Commencement</td>
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