Spring 2011

CEG 211-90: PC Networking II

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

SYLLABUS
CEG211-90 PC Networking II, Spring 2012

This course is web based.   Exams, however, are taken in the class room.

Lecturer: **Karen Meyer, Sr. Lecturer**
Office: 344 Russ Center
Office Phone: (937)775-5131
Email Address: karen.meyer@wright.edu
Pilot: http://pilot.wright.edu

Meeting Times: **8:30 am - 10:10 am T Th in 346 Russ Center**
T. March 26th   First Day of Class – Course Outline
Th. March 28th   Installation of Server – *if using PC in 346 RC*
Th. April 26th   Exam 1
Th. May 31st   Exam 2

Office Hours: T. and Th.   **-** during class time

Advising Hours: You are welcome to visit during advising hours. Please call 775-5131 to make an appointment. The advising office is located in 303 Russ

Prerequisite: CEG 210

Credit Hours: 4

Textbook: Hands-On Microsoft Windows Server 2008 Administration by Michael Palmer, ISBN: 13978-1-4239-0234-8, **REQUIRED Includes Operating System software with trial license.**

Course Description: Focuses on server installation, administration, multiple protocol integration, systems maintenance, and trouble-shooting. Includes hands-on class and laboratory assignments.

System Requirements for Server 2008 Installation:

When deploying Windows Server 2008, it's important to consider and adhere to the minimum requirements needed for the system to be installed. If you do not meet the bare minimum requirements, the installation will not continue. The table below lists minimum and recommended system requirements.

Component	Minimum	Recommended
CPU	1 GHz (for x86 processors) or 1.4 GHz (for x64 processors)	2 GHz or faster

RAM	512 MB	2 GB or more
Hard Disk (System Partition)	10 GB Free Space	40 GB or more
Media	DVD-ROM drive	DVD-ROM drive
Monitor	Super VGA (800 x 600) or higher-resolution monitor	Super VGA (800 x 600) or higher-resolution monitor
Peripherals	Keyboard and mouse (or other compatible pointing device)	Keyboard and mouse (or other compatible pointing device)

Source: http://www.windowsnetworking.com/articles_tutorials/Pre-Installation-Steps-Installing-Windows-Server-2008.html

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 learning about network and server administration. The text includes extensive hands-on projects, exercises, and review questions in each chapter, which reinforce 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 problems. Specific topic coverage includes: network administration and management, administering active directory, managing group policy, administering file resources, administering web resources in windows server, administering TCP/IP, administering DNS, monitoring and troubleshooting network related problems.

Grading
Exam 1	25 %
Exam 2	25 %
Journal	25 %
Quizzes/Participation, Discussions through Elluminate	10 %
Final Project	15 %

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

Late Policy
 30 % will be deducted for each day an assignment is late. No credit will be given for assignments over 3 days late. If you know that you will miss an exam, you may take it early.   Be prepared to provide documentation. You will have card access to this lab and may use the lab when there is not another class in session.

Course and Laboratory Polices:

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

Each student will receive a CD that contains the MS Server 2008 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.

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

Date	Topic
T, 3-27 at 8:30 AM	Present Syllabus, discuss course
Th,3-29 at 8:30 AM	Install Server Operating System in 346 (optional if you are using your own PC for installation, this meeting is not required) **You will need the CD from your book**
Th. 4-29 at 8:30 AM	Exam 1 (covers chapters. 1-5) Journal Due
Th. 5-31 at 8:30 AM	Exam 2 (covers chapters 7,8,10,11) Journal Due
M. 6-4 at Noon	Final Project Due – Pilot drop box

Succeeding In This Class:
My goal for this quarter is to make this distance based class more interactive toenhance your overall learning experience.
What will we do to get there?
   -   Quizzes given through Pilot
          o   Review the material incrementally rather that at the midterm
   -   Weekly briefings
          o   I will summarize highlights of the current week's assignments and give

                you tips on what to expect
- o   We will all discuss what you observed/learned the previous week
- o   We will all discuss any discussion posts that are due
- o   Ask and answer questions
- o   The weekly briefings will be recorded and accessible through Pilot's archive.   If you miss a briefing, you may listen to it and e-mail your comments to me for half participation credit. You may do this up to two times only.

          Weekly briefings will begin week 2.

- -   Read and do the server activities week by week.   Record your answers in your journal. Do not get behind!

Note that we will use Elluminate through Pilot. Please make sure that you are setup to use this.   This is your responsibility. Contact the help desk if you have questions.

Exams:
Exams are a combination of multiple choice, true false and short answer.   They will be given during the scheduled class time using Pilot.

Final Project – see document posted on Pilot

Questions and Discussion Group Postings
Use the Pilot 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.

Required discussion posts are marked under the chapter assignment. **This will be part of your journal grade.** The actual discussion component is part of your class participation 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 Pilot. You will also answer several of the Case Projects in your journal.

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, screen shots, 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. You are installing the server in a stand alone tree. Your server is the Domain Controller.

Handling problems: 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

Journal 1: Please refer to Pilot for details. Please submit your journal with Exam 1. The Cases must be typed.

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.

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. Challenges may relate to operating system vulnerabilities, 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 on the **Helpful Sources Discussion Post.**

Link to Spring Academic Calendar for Important Dates (ex. Drop and Withdraw dates)

http://www.wright.edu/registrar/calendars/academic/index.html#spring