

Spring 2010

CEG 211-01: PC Networking II

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SYLLABUS
CEG211-01 PC Networking II, Spring 2010

This course is web based. Exams 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
WebCT: <http://wisdom.wright.edu>
- Meeting Times:** **8:30 am - 10:10 am MW in 346 Russ Center**
M. March 29th First Day of Class – Course Outline
W. March 31st Installation of Server – if using PC in 346 RC
W. April 28th Exam 1
W. June 2nd – Exam 2
- Office Hours:** MW 9:00 – 10:00 AM unless class is meeting and by appointment
- 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

T, Th: 9-11:30 AM, W 1:30 – 2:30 PM
- 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.

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. Table 2 shows a list of minimum and maximum system requirement levels for your review.

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 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:	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:

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.

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/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.

Date	Topic
M, 3-30 at 8:30 AM	Present Syllabus, discuss course
W, 3-31 at 8:30 AM (Do not be late)	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
W. 4-28 at 8:30 AM	Exam 1(covers chapters. 1-5) Journal/Lab Notes Due
W. 6-2 at 8:30 AM	Exam 2(covers chapters 7,8,10,11) Journal/Lab Notes Due
M. 6-7 at Noon	Final Project Due – WebCT drop box

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 using WebCT.

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.

Required discussion posts 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. You will also answer several of the Case Project 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 WebCT 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 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 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>

Syllabus

Course Information

Course title: Linux and Windows

Course number: CEG 233 - 01 and 02

Course discipline: Computer Engineering

Course description: Introduction to Linux and Windows systems. GUI and Windowing Systems. Files and Directories. Ownership and Sharing. Programs and Processes. System calls, Libraries. Loading. Dynamic linking. Command Line Shells. Scripting languages. Regular expressions. Clients and Servers. Web browser clients and servers. Secure shell, sftp. SSL/TSL. HTTPS. System Administration.

4 credit hours. 3 hours lectures, 2 hours labs.

Course date: Monday, March 29, 2010 through Monday, June 14, 2010

Location: 01: Russ Engineering Center 153
02: Oelman 302
Lab: Russ Engineering Center 429

Meeting day(s): 01: Mondays, Wednesdays
02: Tuesdays, Thursdays

Meeting time(s): 01: 12:15 p.m. - 1:30 p.m., 1:40pm-2:30pm
02: 2:15 p.m. - 3:30 p.m., 3:40 p.m. - 4:30 p.m.

Prerequisite(s): CS 240 or CS 220 or equivalent

Instructor Information

Name: Dr. Sarah Gothard

Email: sarah.gothard@wright.edu

Office location: Russ Engineering Center 437

Office hours: 10:00 a.m. - 1:15 p.m MW
2:45 p.m - 3:45 p.m MW
12:30 p.m. - 1:45 p.m. TR

Phone: 937-321-5167 (during office hours or emergencies only)

Biography: Dr. Gothard received her Ph.D. in Computer Science from Clemson University in 2007.

Dr. Gothard taught the following lecture courses at Clemson University from 2002 to 2008: Computer Science I and II, Algorithms and Data Structures, and Tools and Techniques for Software Development. Courses were taught with various formats as part of her research, including the use of computer graphics in C, C++, and Java.

Dr. Gothard began teaching at WSU Spring 2009 and has taught CS 240 (Computer Programming I), CS 241 (Computer Programming II), CS 242 (Computer Programming III), CS 400 (Data Structures and Algorithms), CEG 233 (Linux and Windows), and CEG 433 (Operating Systems).