

CRN 10374 CST K177
Course Syllabus Spring 2012 (Thursdays)
Server Technologies

General Course Information

Course: CRN 10374, CST K177 Server Technologies, Room B227

Hours: Lecture: 1720 -2005, Lab: 2010 - 2150

Instructor: Ronald Leask

Office: Three Rivers Community College Room C170

Office Hours: M 900-1200, F, 1100 -1300 hours

Office Phone: 860 885-2391

E-mail: rleask@trcc.commnet.edu, Please e-mail me if you cannot attend class

Textbook: 1). Windows Server 2008: Network Infrastructure Configuration, Microsoft Certified Technology Specialist Exam 70-642, 2009, John Wiley & Sons, Inc, ISBN 978-0-470-22515-8

Lab Manual: 2). Use Microsoft On-line Laboratory, Use the detailed Instructions and copy all lab questions and paste them in WORD, answer all questions and submit to instructor.

Reference: Textbooks, (1) MCTS, Exam 70-642, Configuring Windows Server 2008 Network Infrastructure, Training Kit, Tony Northrup and J. C. Mackin, 2008, John Wiley & Sons, Inc,

(2) The Complete Guide to Servers and Server+, Thomson/Delmar Learning, Michael Graves, ISBN- 13:978-1-4180-2023-1

COURSE OBJECTIVES: *Prerequisite: CSA* K105 or permission of the instructor.*

Students will acquire advanced technical knowledge of Windows Server 2008 software and technology, including installation, configuration, upgrading, maintenance, troubleshooting, security and authentication. Additionally, students will acquire an advanced knowledge of network infrastructure concepts. They will learn how to use a virtual processor to host the Windows Server 2008 software, including software configuration of Dynamic Host Configuration Protocol (DHCP), Domain Name Server (DNS), Routing and Remote Access Server (RRAS), Internet Protocol Security (IPSec), File and Print services and, detailed knowledge of programming related terms and the differences between popular client and server models.

COUSE OUTCOMES:

- Understand the purpose, function and use of virtual processors.
- Knowledge of the technical requirements and specifications of Windows Server 2008.
- Understand the components and functions of a server
- Knowledge of Internet Protocol Classful and Classesless addressing
- Understand the functions, use and configuration of the Dynamic Host Configuration Protocol (DHCP).
- Understand the functions, use and configuration of the Domain Name Server(s) (DNS)
- Understand the functions, use and configuration of the Routing and Remote Access Server (RRAS)

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- Knowledge of the technical requirements of the Internet Protocol Security (IPSec),
- Knowledge of programming related terms and the differences between popular client and server models.

Overheads not on CDR will distributed in class or put on mycommnet.

1. Required: External hard-drive ~ 60 Bytes, Cost ~ \$70.00, to hold Windows Virtual PC and Server 2008 software and any changes made in Lab. All laboratory computers are wiped clean daily. An alternative to the hard drive is to host Windows Server 2008 on a personal computer. Will get a copy of Windows Server 2008 and Virtual PC from MSDNAA or Microsoft down loads. A copy of Windows Server 2008, 120 evaluation edition, is also included on DVD with text book. Windows 2008 will be hosted on a virtual machine.(Virtual PC, for PCs, or V-Box or VMware Fusion, for Mac or PCs)
2. Two DVDs for virtual PC and Servers software

GRADING AND EVALUATION CRITERIA:

70% of grade is based on lab assignments

30% of grade is based on end of chapter quizzes, and examinations

Students should keep a course notebook

Syllabus is subject to change to correct errors and when new information becomes available.

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<i>Week</i>	Date (Thursdays)	Chapter/Topic	Quizzes or Exams	Assignments /Labs
Installing the Virtual PC (or V-Box) and Windows Server 2008				
1	1/19/12	Course Overview	Get Student's e-mail for Server 2008	None,
2	1/26/12	Overview of MSDNAA Virtual PC	Get Student's e-mail for Server 2008	Install Virtual PC or Vbox
No Class Thursday, February 2, 2012 Professional Day				
3	2/09/12	Ch1 Introduction to Networking Concepts		Install Windows Server 2008 on virtual PC or Vbox; LAB 1, Introducing Windows Server 2008 Networking
4	2/16/12	Ch2 Installing Microsoft Windows Server 2008		LAB 2, Installing Windows Server 2008
5	2/23/12	Ch3 Configuring and Managing the Dynamic Host Configuration Protocol (DHCP) Server Role		LAB 3, Configuring and Managing the DHCP Server
6	3/01/12	Ch4 Configuring and Managing the Domain Name Server (DNS) Server Role		LAB 4 Configuring and Managing the Domain Name Server (DNS) Server Role
7	3/08/12	Ch5 Configuring Routing and Remote Access (RRAS) and Wireless Networking		LAB 5 Configuring Routing and Remote Access (RRAS)
Friday, April, 13,2012 Professional Day				

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8	3/01/12	Ch6 Configuring File Services		LAB 6 Configuring File Services
No Class March 18-25 2012				
9	3/29/12	Ch7 Configuring Print Services		LAB 7 Configuring Print Services
10	4/05/12	Ch8 Maintaining and Updating Windows Server 2008		LAB 8 Maintaining and Updating Windows Server 2008
11	4/12/10	Ch9 Securing Data Transmission and Authentication		LAB 9, Securing Data Transmission and Authentication
12	4/19/12	Ch10 Configuring Network Health		LAB 10 Configuring Network Health
13	4/26/12	Ch11 Maintaining Windows Server 2008 File Services		LAB 11 Maintaining Windows Server 2008 File Services
14	5/03/12	Ch12 Troubleshooting		Troubleshooting Lab
15	5/10/12	Review		