Windows Server 2008 Applications Infrastructure Configuration (ITNW 1391)

Credit: 3 semester credit hours (2 hours lecture, 4 hours lab)

Prerequisite/Co-requisite: None

Course Description

A course in the installation, configuring, maintaining, and troubleshooting of an Internet Information Services (IIS) 7.0 web server and Terminal Services in Windows Server 2008.

Required Textbook and Materials

1. *70-643: Windows Server 2008 Applications Infrastructure Configuration, Package,* Microsoft Official Academic Course, Wiley, 2008.

   a. ISBN number is 978-0-470-13327-9

2. A package of #882 Scantrons and #2 pencils.

3. A portable external Hard Drive with a capacity of 200GB or larger.

Course Objectives

Upon completion of this course, the student will be able to:

1. Configure access to Terminal Services applications. (SCANS: C1, C3, C5, C6, C7, C8, C11, C15, C16, C17, C18, C19, C20, F 1, F2, F5, F6, F7, F8, F9, F10, F11, F12, F13, F16, F17)

2. Configure advanced Terminal Services features, application pools on Microsoft Internet Information Services (IIS) 7.0, and network application services. (SCANS: C1, C3, C5, C6, C7, C8, C11, C15, C16, C17, C18, C19, C20, F 1, F2, F5, F6, F7, F8, F9, F10, F11, F12, F13, F16, F17)

3. Publish and secure web sites. (SCANS: C1, C3, C5, C6, C7, C8, C11, C15, C16, C17, C18, C19, C20, F 1, F2, F5, F6, F7, F8, F9, F10, F11, F12, F13, F16, F17)

4. Install, configure and administer IIS 7.0 and web site availability enhancements Publish and secure web sites. (SCANS: C1, C3, C5, C6, C7, C8, C11, C15, C16, C17, C18, C19, C20, F 1, F2, F5, F6, F7, F8, F9, F10, F11, F12, F13, F16, F17)

5. Deploy virtual technology. (SCANS: C1, C3, C5, C6, C7, C8, C11, C15, C16, C17, C18, C19, C20, F 1, F2, F5, F6, F7, F8, F9, F10, F11, F12, F13, F16, F17)

SCANS Skills and Competencies

Beginning in the late 1980's, the U.S. Department of Labor Secretary's Commission on Achieving Necessary Skills (SCANS) conducted extensive research and interviews with business owners, union leaders, supervisors, and laborers in a wide variety of work settings to determine what knowledge workers needed in order to perform well on a job. In 1991 the Commission announced its findings in *What Work Requires in Schools.* In its

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research, the Commission determined that "workplace know-how" consists of two elements: foundation skills and workplace competencies.

Course Outline

A. Deploying an Application Server
   1. Introducing Windows Server 2008 Application Services
   2. Planning an Enterprise Application Server Deployment
   3. Deploying Servers
   4. Activating Windows
   5. Using Server Manager

B. Deploying a File Server
   1. Planning a File Server Deployment
   2. Configuring a File Server

C. Using the File Services Role
   1. Installing the File Services Role
   2. Using the Distributed File System
   3. Using the File Server Manger
   4. Using Services for NFS

D. Deploying Print and Fax Services
   1. Deploying a Print Server
   2. Using the Print Services Role
   3. Deploying a Fax Server

E. Deploying IIS Services
   1. Using the Web Server (IIS) Role
   2. Publishing IIS Web Sites
   3. Deploying an FTP Server

F. Securing IIS Services
   1. Understanding Web Site Security
   2. Configuring Wed Site Security
   3. Using Secure Sockets Layer

G. Deploying Web Applications
   1. Understanding Web Applications
   2. Deploying UDDI Services
   3. Deploying an SMTP Server

H. Using Terminal Services
   1. Introducing Terminal Services
   2. Deploying Terminal Services
   3. Configuring Terminal Server

I. Configuring Terminal Services Clients
   1. Deploying Terminal Services Clients
   2. Using Remoter Desktop Connection
   3. Understanding Terminal Services Licensing

J. Using the Terminal Services Gateway
   1. Using TS Web Access
   2. Using Terminal Services Gateway

K. Using Network Application Services
   1. Using Windows Media Services
   2. Using Windows SharePoint Services
   3. Using Digital Rights Management

L. Using High Availability Technologies
   1. What is High Availability
   2. Using a Storage Area Network
   3. Clustering Services
   4. Using Virtualization

Grade Scale

90 – 100	A
80 – 89	B
70 – 79	C
60 – 69	D
0 – 59	F

Course Evaluation

Final grades will be calculated according to the following criteria:

1. Labs	30%
2. Study Guides	10%
3. Chapter Tests	30%
4. Final Exam	30%

Course Requirements
1. Demonstrate proficiency through hands-on labs as assigned.
2. Complete Study Guides as assigned.

Course Policies
1. No food, drinks, or use of tobacco products in class.
2. Beepers, telephones, headphones, and any other electronic devices must be turned off while in class.
3. Do not bring children to class.
4. No late assignments will be accepted.
5. Certification. If a student passes the certification test that is associated with this class, you will receive an "A" on the final exam and credit for 25% of your labs. If you have missed a previous test, you must still take the final exam to substitute for that grade.
6. Attendance Policy. Three absences are allowed. If a student is tardy to class or departs early three (3) times, it will be equal to one (1) absence. Each absence beyond three absences will result in a 2 point deduction from your final grade.
7. If you wish to drop a course, the student is responsible for initiating and completing the drop process. If you stop coming to class and fail to drop the course, you will earn an 'F' in the course.
8. Labs. Due dates will be announced by the instructor.
9. Tools. Return all tools and/or software to their designated place.
10. A grade of 'C' or better must be earned in this course for credit toward degree requirement.
11. Additional class policies as defined by the individual course instructor.

Disabilities Statement
The Americans with Disabilities Act of 1992 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. Among other things, these statutes require that all students with documented disabilities be guaranteed a learning environment that provides for reasonable accommodations for their disabilities. If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator at (409) 880-1737 or visit the office in Student Services, Cecil Beeson Building.

Course Schedule

Week of	Topic	Reference
Week 1	Syllabus and policies Course Introduction Introduction to Virtual Labs	
Week 2	Chapter 1: Deploying an Application Server	pp. 1-45 Lab 1
Week 3	Chapter 2: Deploying a file Sever	pp. 46-105 Lab 2
Week 4	Chapter 3: Using the File Services Role	pp. 106-149 Lab 3
Week 5	Chapter 4: Deploying Print and Fax Servers	pp. 150-183 Lab 4
Week 6	Chapter 4: Deploying Print and Fax Servers	pp. 150-183 Lab
Week 7	Chapter 5: Deploying IIS Services	pp. 184-218 Lab 5
Week 8	Chapter 6: Securing IIS Services	pp. 219-254 Lab 6
Week 9	Chapter 7: Deploying Web Applications	pp. 255-278 Lab 7
Week 10	Chapter 8: Using Terminal Services	pp. 279-311 Lab 8
Week 11	Chapter 9: Configuring Terminal Services Clients Gateway	pp. 312-347 Lab 9
Week 12	Chapter 10: Using the Terminal Services	pp. 348-383 Lab 10
Week 13	Chapter 11: Using Network Application	pp. 384-431 Lab 11
Week 14	Chapter 11: Using Network Application	pp. 348-431 Lab
Week 15	Chapter 12: Using High Availability Technologies	pp. 432-465
Week 16	Course Review and Lab Completion	pp. 1-465 Labs 1 thru 12