

## Windows Server 2008 Active Directory Configuration (ITMT 2302)



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

**Prerequisite/Co-requisite:** None

### Course Description

A study of Active Directory Service on Windows Server 2008. Concepts of resource management within an enterprise network environment.

### Required Textbook and Materials

1. *70-640: Windows Server 2008 Active Directory Configuration, Package*, Microsoft Official Academic Course, Wiley, 2008.
  - a. ISBN number for print book is 978-0-470-87498-1 (with lab book)
  - b. ISBN number for CourseSmart E-book is 978-0-470-22509-7
2. A portable external Hard Drive with a capacity of 500GB or larger.

### Course Objectives

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

1. Configure Domain Name System (DNS) for Active Directory, Active Directory infrastructure, additional Active Directory server roles and Active Directory Certificate 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)
2. Develop and maintain Active Directory objects and the Active Directory environment. (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 research, the Commission determined that "workplace know-how" consists of two elements: foundation skills and workplace competencies.

### Course Outline

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|---|--|
| A. Overview of Active Directory Domain Services | 2. Introducing Active Directory Design |
| 1. Introducing Active Directory Domain Services | B. Implementing Active Directory       |
|   | 1. Introducing the server Manager      |

Approved 1/2013

# ITMT 2302

## Course Syllabus

- 2. Designing an Active Directory Implementation
- C. Working with Active Directory Sites
  - 1. Introducing Active Directory Sites
  - 2. Managing Replication
- D. Global Catalog and Flexible Single Master Operations (FSMO) Roles
  - 1. Understanding Global Catalog
  - 2. Understanding Flexible Single Master Operations (FSMO) Roles
- E. Active Directory Administration
  - 1. Understanding User Accounts
  - 2. Understanding Groups
- F. Security Planning and Administrative Delegation
  - 1. Planning and Implementing Account Security
  - 2. Planning an Organizational Unit Strategy
- G. Introduction to Group Policy
  - 1. Introducing Group Policy
  - 2. Using the Group Policy Management Console
- H. Configuring the User and Computer Environment Using Group Policy
  - 1. Configuring Security Policies Using Group Policy Objects
- 2. Managing Security Policies Using Group Policy Objects
- I. Performing Software Installation with Group Policy
  - 1. Managing Software through Group Policy
  - 2. Customizing Software Installation Packages
- J. Planning a Group Policy Management and Implementation Strategy
  - 1. Implementing Group Policy
  - 2. Managing Group Policy
- K. Active Directory Maintenance, Troubleshooting and Disaster Recovery
  - 1. Maintaining Active Directory
  - 2. Monitoring Active Directory
  - 3. Diagnosing and Troubleshooting Active Directory
- L. Configuring Name Resolution and Additional Services
  - 1. DNS Name Resolution
  - 2. Configuring DNS Servers
- M. Configuring Active Directory Certificate Services
  - 1. Introducing Active Directory Certificate Services
  - 2. Managing Certificate Servers

## 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%

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Course Syllabus

**Course Requirements**

1. Demonstrate proficiency through hands-on labs as assigned.
2. Complete Study Guides and work sheets 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**

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<b>Week of</b>	<b>Topic</b>	<b>Reference</b>
Week 1	Syllabus and policies Course Introduction Introduction to Virtual Labs	

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<b>Week of</b>	<b>Topic</b>	<b>Reference</b>
Week 2	Chapter 1: Overview of Active Directory Domain Services	pp. 1-20 Lab 1
Week 3	Chapter 2: Implementing Active Directory	pp. 21–58 Lab 2
Week 4	Chapter 3: Working with Active Directory Sites	pp. 59-78 Lab 3
Week 5	Chapter 4: Global Catalog and Flexible Single Master Operations (FSMO) Roles	pp. 79-100 Lab 4
Week 6	Chapter 5: Active Directory Administration	pp. 101-124 Lab 5
Week 7	Chapter 6: Security Planning and Administrative Delegation	pp. 125-137 Lab 6
Week 8	Chapter 6: Security Planning and Administrative Delegation	pp. 125-137 Lab 6
Week 9	Chapter 7: Introduction to Group Policy	pp. 138-154 Lab 7
Week 10	Chapter 8: Configuring the User and Computer Environment Using Group Policy	pp. 155-180 Lab 8
Week 11	Chapter 9: Performing Software installation with Group Policy	pp. 181-201 Lab 9
Week 12	Chapter 10: Planning a Group Policy Management and Implementation Strategy	pp. 202-220 Lab 10
Week 13	Chapter 11: Active Directory Maintenance, Troubleshooting and Disaster Recovery	pp. 221-243 Lab 11
Week 14	Chapter 12: Configuring Name Resolution and Additional Services	pp. 244-266 Lab 12
Week 15	Chapter 13: Configuring Active Directory Certificate Services	pp. 267-291 Lab 13
Week 16	Final Exam	

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**Contact Information:**

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**Additional Course Policies**

Additional policies may be determined by individual course instructors. These policies will be indicated in the syllabus that is issued at the start of the course.