

PALOMAR COLLEGE
COURSE OUTLINE OF RECORD FOR
DEGREE CREDIT COURSE

X Transfer Course X A.A. Degree applicable course
(check all that apply)

COURSE NUMBER AND TITLE: CSIS 166 Designing Active Directory Services

UNIT VALUE: 2

MINIMUM NUMBER OF SEMESTER HOURS: 40

BASIC SKILLS REQUIREMENTS: Appropriate language and computational skills.

ENTRANCE REQUIREMENTS

PREREQUISITE: None

COREQUISITE: None

RECOMMENDED PREPARATION: CSIS 165

SCOPE OF COURSE:

This course provides students with knowledge and skills necessary to design a Microsoft Windows directory services infrastructure in an enterprise network.

SPECIFIC COURSE OBJECTIVES:

1. Analyzing Business Requirements
2. Analyzing Technical Requirements
3. Designing a Directory Service Architecture
4. Designing Service Locations

CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:

- I. **Introduction to Designing a Directory Services Infrastructure**
 - A. Role of Active Directory in an Enterprise Network
 - B. Conducting an Organizational Analysis
 - C. Architectural Elements of Active Directory
- II. **Designing an Active Directory Naming Strategy**
 - A. Identifying Business Needs
 - B. DNS and Active Directory
 - C. Planning Active Directory Domain Names
 - D. Designing a DNS Naming Strategy for Active Directory

- III. **Designing Active Directory to Delegate Administrative Authority**
 - A. Identifying Business Needs
 - B. Characterizing the IT Organization
 - C. Developing a Strategy for Administrative Design
 - D. Developing a Strategy for Delegation
- IV. **Designing a Schema Policy**
 - A. Identifying Business Needs
 - B. Schema Fundamentals
 - C. Implications of Modifying the Schema
 - D. Planning for Schema Modification
- V. **Designing Active Directory to Support Group Policy**
 - A. Identifying Business Needs
 - B. Applying Group Policy in Active Directory
 - C. Planning for Group Policy
- VI. **Designing an Active Directory Domain**
 - A. Identifying Business Needs
 - B. Designing the Initial Active Directory Domain
 - C. Planning for Security Groups
 - D. Planning for OUs
- VII. **Designing a Multiple Domain Structure**
 - A. Identifying Business Needs
 - B. Accessing Resources Between Domains
 - C. Planning for Multiple-Domain Trees
 - D. Planning for Multiple-Tree Forests
 - E. Planning for Multiple Forests
- VIII. **Designing an Active Directory Site Topology**
 - A. Using Sites in Active Directory
 - B. Assessing the Need for Active Directory Sites
 - C. Using Site Links in a Network
 - D. Planning the Inter-Site Replication Topology
 - E. Planning for Server Placement in Sites
- IX. **Designing an Active Directory Infrastructure**
 - A. Conducting an Organizational Analysis
 - B. Designing an Active Directory Structure
 - C. Creating a Functional Specification

REQUIRED READING: Microsoft Official Curriculum – Designing A Microsoft Windows Directory Services Infrastructure

SUGGESTED READING: None

REQUIRED WRITING:

Problem solving exercises and skills demonstrated in computer homework assignments. A minimum of one page per homework assignment is required.

OUTSIDE ASSIGNMENTS:

Students are expected to spend a minimum of three hours a week practicing the skills learned in class on their home machines. The midterm and final are both take home exams requiring at least 10 hours to complete.

INSTRUCTIONAL METHODOLOGY:

Check all that apply:

- lecture
- laboratory
- lecture-laboratory combination
- directed study

DISTANCE LEARNING:

This course may be offered as a distance learning course and meets Title 5 regulations 55370, 55372, 55374, 55376, 55378, and 55380.

Yes No

If yes, check all that apply:

- Television Course (Video one-way, e.g. ITV, video cassette, etc.)
- Online Course (Text one-way, e.g. newspaper, correspondence, electronic file, etc.)
- Two-Way Video Conferencing (Two-way interactive video and audio)
- One-Way Video Conferencing (One-way interactive video and two-way interactive audio)
- Computer Assisted Instruction (A specialized form of mediated instruction relying primarily on student access to information and prepared lessons or teaching materials through a computer terminal, but not under immediate supervision of a qualified instructor.)

GRADING POLICY AND STANDARDS (include methods of determining whether the stated objectives have been met by students):

Grades for courses are based upon final examinations, mid-term examinations, other tests, assignments, projects, and participation. Faculty will inform students of their grading policy at the beginning of each semester.

IS COURSE REPEATABLE FOR REASON(S) OTHER THAN DEFICIENT GRADE?

Yes No Number of times course may be taken for credit: 1

If yes, identify specific provision of Title 5 Division 2 section(s), 55761-55763 and 58161 which qualifies course as repeatable:

CONTACT PERSON: Terrie Smith x2610

SIGNATURES:

SIGNATURES ON FILE