Faculty are required to have the outline submitted to the Academic Affairs Office. The course outline is the form used for approval of new courses by the Academic Affairs and Standards Council.

DEPT. Computer Careers COURSE NUMBER: CST2294

NUMBER OF CREDITS: 3 credits

COURSE TITLE: Windows Directory Services

CATALOG DESCRIPTION: This course will cover how to plan, configure, and administer an Active Directory infrastructure. The student will learn to configure Domain Name System (DNS) to manage name resolution, schema, and replication. The student will also learn how to use Active Directory to centrally manage users, groups, shared folders, and network resources, and to administer the user environment and software with group policy. This course will show the student how to implement and troubleshoot security directory services infrastructure and monitor and optimize Active Directory performance. Students will deploy Windows remotely using Remote Installation Services (RIS). Hands-on practical experience with exercises will be incorporated into this course. This course helps students to prepare for Microsoft certification.

AUDIENCE: Computer Careers students and IT professionals who need to design, plan, implement, and support Windows Directory Services Infrastructure or who plan to take the related Microsoft Certified Professional exam.

FULFILLS MN TRANSFER CURRICULUM AREA(S) (Leave blank if not applicable)
Area: by meeting the following competencies:
Area: by meeting the following competencies:
Area: by meeting the following competencies:

PREREQUISITES OR NECESSARY ENTRY SKILLS/KNOWLEDGE:
CST1111 - File Structures
CST1190 - Introduction to Networking
CST2223 - Windows Client/Server Admin

LENGTH OF COURSE: One Semester

THIS COURSE IS USUALLY OFFERED:
Every other year ☐ fall ☐ spring ☑ summer ☐ undetermined ☐

Four goals are emphasized in course at Minnesota West Community & Technical College:
1) ACADEMIC CONTENT: The student will achieve the advanced level of knowledge and skill needed to implement Directory Services.

2) THINKING SKILLS: The student will accurately analyze and manage Directory Services in a timely manner.

3) COMMUNICATIONS SKILLS: The student will begin to demonstrate appropriate communication techniques in working with fellow students to complete assignments.

4) HUMAN DIVERSITY: The student will gain self awareness regarding their feelings towards people of different cultures, value systems and socioeconomic status.

TOPICS TO BE COVERED: DNS, NSLOOKUP, Domain Controller, OU Structures, Subdomains, Domain tree in the Forest, Zone Delegation, Trust Relationship, Global Catalog Servers, Sites, Connection Objects, Security Policies, GPOs, RIS, CSVDE

LIST OF EXPECTED COURSE OUTCOMES:
   1. Demonstrate DNS Service Installation
   2. Create a Zone Delegation
   3. Demonstrate use of the NSLOOKUP command to verify DNS configuration
   4. Demonstrate Promoting a Domain Controller
   5. Configure DNS integration with Active Directory
   6. Create & Modify an Organizational Unit structure
   7. Create a New Domain Tree in the Forest
   8. Manage trust relationships
   9. Create & Configure Sites
   10. Create Subnets
   11. Create Connection objects
   12. Create Active Directory objects
   13. Create & Publish a printer
   14. Explain results of monitoring system performance
   15. Demonstrate linking GPOs to the Active Directory
   16. Install & configure Remote Installation Services
   17. Demonstrate authorizing a RIS Server
   18. Create a Computer Account
   19. Create a Remote Boot Disk

LEARNING/TEACHING TECHNIQUES used in the course are:

- Collaborative Learning
- Problem Solving
- Student Presentations
- Interactive Lectures
- Creative Projects
- Individual Coaching
- Lecture
- Films/Videos/Slides
- Demonstrations
- Lab
ASSIGNMENTS AND ASSESSMENTS FOR THIS CLASS INCLUDE:

- Reading
- Oral Presentations
- Textbook Problems
- Group Problems
- Other (describe below)

- Tests
- Worksheets
- Papers
- Term Paper
- Individual Projects
- Collaborative Projects
- Portfolio

EXPECTED STUDENT LEARNING OUTCOMES:

The information in this course outline is subject to revision

Veteran Services: Minnesota West is dedicated to assisting veterans and eligible family members in achieving their educational goals efficiently. Active duty and reserve/guard military members should advise their instructor of all regularly scheduled military appointments and duties that conflict with scheduled course requirements. Instructors will make every effort to work with the student to identify adjusted timelines. If you are a veteran, please contact the Minnesota West Veterans Service Office.

To receive reasonable accommodations for a documented disability, please contact the campus Student Services Advisor or campus Disability Coordinator as arrangements must be made in advance. In addition, students are encouraged to notify their instructor.

This document is available in alternative formats to individuals with disabilities by contacting the Student Services Advisor or by calling 800-658-2330 or Minnesota Relay Service at 800-627-3529 or by using your preferred relay service.

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