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:  CST 2293
NUMBER OF CREDITS:  3
COURSE TITLE:  Windows Network Infrastructure II
CATALOG DESCRIPTION:  This course is designed to prepare students for the corresponding MCSE certification exam, and for the challenges you will face as a Microsoft networking professional. Lectures, projects and exercises reinforce skills as they learn. Specific topic coverage includes: Overview of Planning a Windows Server 2003 Network, TCP/IP Architecture, Planning and Managing a TCP/IP Network, Planning and Configuring Routing and Switching, Planning, Configuring, and Troubleshooting DHCP, Planning, Configuring, and Troubleshooting WINS, Planning a DNS Strategy, Managing and Troubleshooting DNS, Planning and Managing Certificate Services, Planning and Managing IPSec (IPSec), Planning Network Access, Planning and Implementing Server Availability, Planning Server and Network Security, Problem Recovery.

AUDIENCE  : Networking Specialist majors

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:
CST 2223 Windows Client/Server Administration
CST 2291 Windows Network Administration I

LENGTH OF COURSE : 1 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 academic objectives of this course are:
   a. The student will achieve the advanced level of knowledge and skill needed to administer, setup, and troubleshoot a Microsoft Exchange Server
   THINKING SKILLS: This course will help students improve the effectiveness of their thinking skills through: The student will accurately perform instructions to install and manage a Microsoft Exchange environment.
2) COMMUNICATIONS SKILLS: This course will help students improve their oral and written communication skills through:
   a. The student will begin to demonstrate appropriate communication techniques in working with fellow students to complete assignments
3) HUMAN DIVERSITY: This course will help students recognize, understand, and appreciate human diversity through:
   a. The student will gain self awareness regarding their feelings towards people of different cultures, value systems and socioeconomic status.

TOPICS TO BE COVERED:
TCP/IP, IPSec, manage certificate, security infrastructure, name resolution

LIST OF EXPECTED COURSE OUTCOMES:
1. Plan TCP/IP network infrastructure, topology, and Internet connectivity
2. Configure server roles and baseline security settings
3. Plan name resolution, routing, and remote access strategies
4. Maintain server availability with clusters and network load balancing
5. Deploy IPSec, harden servers, and manage certificates
6. Design and administer a security infrastructure

LEARNING/TEACHING TECHNIQUES used in the course are:

- Collaborative Learning
- Student Presentations
- Creative Projects
- Lecture
- Demonstrations
- Lab
- Problem Solving
- Interactive Lectures
- Individual Coaching
- Films/Videos/Slides
- Other (describe below)

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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