COURSE OUTLINE

DEPT. CST                        COURSE NUMBER:  1195

NUMBER OF CREDITS:  2

COURSE TITLE:  Network Basics

CATALOG DESCRIPTION :  This course introduces the student to networking basics, media, topologies, protocols, architectures, software, and the Open Systems Interconnection (OSI) Reference Model. In addition, wide area network (WAN) technologies, security issues, the Internet and Internet tools are introduced.

AUDIENCE : Students enrolled in the Information Security and Assurance AAS and certificate programs, any person interested in learning about networks, or students majoring in noncomputer programs.

FULFILLS MN TRANSFER CURRICULUM AREA(S) (Leave blank if not applicable)

PREREQUISITES OR NECESSARY ENTRY SKILLS/KNOWLEDGE: Students must know how to use a computer, access the Internet and send email messages.

LENGTH OF COURSE : Two lecture hours per week for 16 weeks

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 a basic knowledge of networks.
2) THINKING SKILLS: The student will develop logical and critical thinking skills by making recommendations for networks in a business setting and analyzing network design.
3) COMMUNICATIONS SKILLS: The student will demonstrate appropriate communication techniques by completing projects, interviewing network technicians, and documenting network designs.
4) HUMAN DIVERSITY: The student will gain self-awareness regarding their feelings towards people of different cultures, educational backgrounds, value systems and socioeconomic status.

TOPICS TO BE COVERED: Network term definitions, network media, topologies, protocols, network operating systems, and network management topics are covered.
LIST OF EXPECTED COURSE OUTCOMES:

a. Demonstrate knowledge of the elements of communication  
b. Identify network types  
c. Explain how data transmissions are sent and received  
d. Increase networking vocabulary  
e. Demonstrate comprehension of network topologies, architectures, standards and management  
f. Explain the function and layers of the OSI Reference Model  
g. Exhibit comprehension of WAN technologies  
h. Demonstrate knowledge of how the Internet works  
i. Demonstrate Internet tools usage

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

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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