MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE
COURSE OUTLINE

DEPT. Computer Careers COURSE NO. CST1190

COURSE TITLE: Introduction to Networking

CATALOG DESCRIPTION: This course will cover the fundamentals of current networking technology. A general introduction to networking including local and wide area network technology will be presented to students. This course is designed to help candidates prepare to successfully pass the CompTIA Network + examination.

AUDIENCE: Computer Careers and telecommunication students in their first year of the program. This course should be taken by individuals interested in mastering broad, vendor-independent networking concepts. In particular, it will help those individuals seeking to pass the Computing Technology Industry Association’s Network+ certification exam.

FULFILLS MN TRANSFER CURRICULUM AREA(S) (Leave blank if not applicable)
Area : by meeting the following competencies:
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PREREQUISITES OR NECESSARY ENTRY SKILLS/KNOWLEDGE:
ADSA 1100 – College Keyboarding I
CSCI 1102 – Introduction to Microcomputers either before or concurrently with the class.

LENGTH OF COURSE: 3 Credits

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 first level of knowledge and skill needed for the computer careers majors.

2. THINKING SKILLS: Student will show ability to process & memorize number networking terminology and acronyms.

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: How to install, configure, and troubleshoot a computer network will be covered in this course. A wide range of material about networking will be covered. Assessments of careers
in networking, local area networks, wide area networks, protocols, topologies, transmission media, and security are just a few of the discussion items in this class. Course also offers an in-depth examination of the most significant aspects of networking, such as the TCP/IP protocol suite.

LIST OF EXPECTED COURSE OUTCOMES:

1. Identify the seven layers of the OSI model
2. Identify network protocols
3. Describe data transmission methods
4. Define networking terms
5. Describe physical network topologies
6. Understand logical network topologies
7. Assess network operating systems
8. Identify network classes
9. Determine IP addresses
10. Understand network security

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
- Memorization
- Lab

ASSIGNMENTS AND ASSESSMENTS FOR THIS CLASS INCLUDE:

- Reading
- Tests
- Individual Projects
- Oral Presentations
- Worksheets
- Collaborative Projects
- Textbook Problems
- Papers
- Lab
- Group Problems
- Term Paper
- Other (describe below)

"This course will cover the characteristics of hazardous wastes and its safe handling, storage, and disposal."

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.
Minnesota Relay Service at 800-627-3529 or by using your preferred relay service.

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