ELEC 1500: Networking I

A. COURSE DESCRIPTION
   Credits: 3
   Lecture Hours/Week: 2
   Lab Hours/Week: 2
   OJT Hours/Week: *.*
   Prerequisites: None
   Corequisites: None
   MnTC Goals: None

   This course provides an introduction to network systems. The student will learn about the basic concepts, terminology, equipment, and the techniques that are needed in the development of a data communication system. The protocols used for typical data exchange will be explored in a lab environment. This is semester one of the Cisco curriculum. (Prerequisites: None.) (3 credits: 2 lecture/1 lab)

B. COURSE EFFECTIVE DATES: 07/01/2010 - Present

C. OUTLINE OF MAJOR CONTENT AREAS
D. LEARNING OUTCOMES (General)
   1. Analyze local area network components
   2. Identify analog transmission
   3. Identify WAN
   4. Identify digital transmission
   5. Analyze network function
   6. Identify ISO/OSI network model
   7. Analyze terminology
   8. Analyze network topologies
   9. Identify star topology
   10. Categorize network standards
   11. Identify data units
   12. Identify network appliances
   13. Identify bus topology
   14. Analyze TCP/IP portocol
   15. Develop network plan
   16. Build LAN
   17. Check LAN
   18. Identify network class
   19. Associate hub functions
   20. Apply category five terminations
   21. Troubleshoot LAN
   22. Associate bridge functions
   23. Understand basic IOS
   24. Associate router functions

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies
   None

F. LEARNER OUTCOMES ASSESSMENT
   As noted on course syllabus

G. SPECIAL INFORMATION
   None noted