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 protocol
  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