A. Course Description

- Credits: 3.00
- Lecture Hours/Week: 2.00
- Lab Hours/Week: 1.00
- OJT Hours/Week: 0
- Prerequisites: None
- Corequisites: None
- MnTC Goals: None

This course exposes students to networking concepts, technologies, and typical network administration/analysis duties found in the workplace. Topics covered include communication models, network protocols, IP addressing and subnetting, physical and logical topologies, transmission media, and network hardware.

B. Course Effective Dates: 8/2/19 – Present

C. Outline of Major Content Areas

As noted on course syllabus

D. Learning Outcomes

1. Compare LAN, WAN, and WLAN (WiFi) technologies.
2. Describe the relationship between IP and MAC addresses.
3. Describe the role and function of routers and switches
4. Design an addressing and subnetting scheme for a routed IP network.
5. Examine physical network and logical topology diagrams.
6. Explain the function of each layer of the TCP/IP and OSI models.
7. Identify common connectivity issues.
8. Identify commonly used TCP and UDP ports.
9. Identify standard cable types.
10. List the characteristics of common logical network topologies.

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

F. Learner Outcomes Assessment
As noted on course syllabus

G. Special Information

None noted