

# Bemidji State University

## CS 3560: Data Communications and Networks

### A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: \*.\*

Lab Hours/Week: \*.\*

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

Principles of data communications as applied to modern computer networks. Prerequisite: CS 2810. May not be offered every year.

**B. COURSE EFFECTIVE DATES:** 08/20/1997 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

1. Application Layer: DNS & WWW
2. Link Layer Protocols & Associated Problems
3. Media Transmission & Modulation
4. Media access Control Sublayer, Ethernet, & Wireless Protocols
5. Network Layer & IP
6. Physical Limitation of Data Transmission Rates
7. The OSI Model
8. Transport Services & protocol TCP & UDP

### D. LEARNING OUTCOMES (General)

1. focus on the open systems interconnection model for computer communications.
2. understand physical basis of communication, transmission media and wireless communications.

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

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

### G. SPECIAL INFORMATION

None noted