Description: Analysis of loosely coupled computer communication protocols, and network services; an open systems interconnection model is presented and compared to selected examples of computer networks.

Prerequisite: COSC 350 and COSC 370 or instructor’s permission


Introduction and TCP/IP
Simple client/server program examples, The Transport Layers: TCP, UDP and SCTP, Connection Establish and Termination, Port Number, Sequential and Concurrent Server, Standard IP service.

Elementary Sockets
Introduction to Socket, Elementary TCP Sockets, TCP Client/Server Programming, I/O multiplexing, Socket Options, Elementary UDP Sockets, Elementary SCTP Sockets, SCTP Client/Server Programming, Name and Address Conversions.

Advanced Sockets

Test

EVALUATION
Programs (Design and & Implementation): 40 - 60%
Tests, Quizzes, & Final Exam: 40 - 60%