

COMP 3720 - Computer Networks 1

Calendar Description: This course examines the principles of computer networks, including network architectures, algorithms, protocols, and performance

Prerequisites: COMP 2140 and COMP 2280.

This course is a prerequisite for: COMP 4580 and COMP 4720

Outline

- 1) Introduction to computer networks (1 week)
- 2) Application Layer (2 ½ weeks)
- 3) Transport Layer, multiplexing and demultiplexing, principles of reliable data transfer, principles of congestion control (3 weeks)
- 4) Network layer: network service model (3 weeks)
- 5) Data link layer and multiple access protocols (3 weeks)
- 6) Physical layer (1/2 week)

Text: James Kurose and Keith Ross, *Computer Networks: A Top-Down Approach Featuring the Internet*, Third Edition, Addison Wesley, 2004.