

## COMP 4720 - Computer Networks 2

**Calendar Description:** This course examines advanced topics in computer networks, including network security, network management, performance, and multimedia networking.

**Prerequisite:** COMP 3720

**Corequisite:** COMP 3430

### Outline

- 1) Advanced data link layer technologies, advanced MAC protocols (2 ½ weeks)
- 2) Advanced Network layer technologies (2 weeks)
- 3) Advanced congestion control techniques (1 ½ weeks.)
- 4) Multimedia networking (2 ½ weeks)
- 5) Security in computer networks (1 weeks)
- 6) Network Management (1 ½ weeks)
- 7) Selected topics to expose students to networking concepts used in today's technologies (2 weeks)

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

**Optional References:** Larry L. Peterson and Bruce Davie, *Computer Networks: a Systems Approach*, Third Edition, Morgan Kaufman, 2004.

Fred Halsal, *Multimedia Communications: Applications, Networks, Protocols and Standards*. Pearson Education (Addison-Wesley) 2001.