Class Schedule by Week – this is subject to modification based on class pace of material coverage, unplanned class cancellations, etc

Week 1

* Course Overview
  + Syllabus
  + Mycourses
  + Expectations
  + Project
  + Grading
* Introduction types of networks
  + Access
  + Distribution/Aggregation
  + Backbone
  + The Network Layer Model

Weeks 2 and 3

* PSTN Local Loop Access Networks
* Digital Subscriber Loops (DSL)
* Passive Optical Networks (PONs)
* Hybrid Fiber Coax (HFC)

Weeks 4 and 5

* Quiz 1
  + Access Network Topologies and technical requirements
* Network Model - Physical Layer
  + Modulation
  + Shannon/Nyquist
  + Line coding
  + Data Rate
  + Bandwidth
  + Transmission Media

Weeks 6 and 7

* Quiz 2 – Layer 1
* Network Layer Model – Data Link Layer
  + Error Detection
    - CRC
    - Parity
  + Error Correction
    - Hamming
  + Flow Control
    - Sliding Window ARQ
  + MAC Addresses

Week 7

* Quiz 3 – Layer 2
* Review for Exam 1 – see above
* Exam 1

WEEK 8 – EXAM 1

Weeks 8,9,10 and 11

* Network Layer Model
  + IPv4 addressing and subnetting
  + Routing Protocols
  + Packet Tracer for Class Project

Week 12

* Exam 2 – Weeks 8,9,10,11

Weeks 13-15

* Complete Class Project
* Other Material TBA