

EL536: Principles of communication networks I
Summer 2006: X Sessions

Instructor: Sathya Narayanan
Contact: snaray01@utopia.poly.edu

Class 1: June 1, 2006

Introduction
Protocol Architecture

Class 2: June 6, 2006

Physical Layer -- Data Transmission
Physical Layer -- Signal Encoding
Physical Layer -- Multiplexing and Spread Spectrum

Class 3: June 8, 2006

Data Link Layer -- Introduction
Data Link Layer -- Data Link Control

Class 4: June 13, 2006

LANs -- Overview
LANs -- High-speed LANs

Class 5: June 15, 2006

LANs -- Wireless LANs
Networking Layer -- Switching

Class 6: June 20, 2006

Midterm Exam

Class 7: June 22, 2006

Networking Layer -- Routing
Networking Layer -- Traffic Control

Class 8: June 27, 2006

Internet Protocols

Class 9: June 29, 2006

Transport Protocols

Class 10: July 6, 2006

Applications
Network Security

Class 11: July 11 (or 13), 2006

Final Exam

Main textbooks

“Data and Computer Communications”, by William Stallings, Seventh Edition
Additional text “Computer Networks” by A. Tanenbaum.

Website

<http://eeweb.poly.edu/el536>