

EE450 – Introduction to Computer Networks

Nazarian Summer 2014

University of Southern California

Department of Electrical Engineering

Course Description

This course provides an in-depth discussion and analysis of the global Internet, with focus on the design principles, layering and protocol design and analysis. Topics covered include the Internet structure and architecture, Transport and congestion control protocols, socket programming, network layer and routing protocols, link layer and MAC protocols, network applications and internetworking.

Website

DEN: <http://den.usc.edu/>

Textbook

- Textbook: Computer Networking: A Top-Down Approach, James F. Kurose, and Keith W. Ross, (6th edition)

Additional (Recommended) Readings

- Computer Networks, Andrew S. Tanenbaum
- Computer Networks: A System Approach, Larry L. Peterson and Bruce S. Davie
- Communications Networks, Alberto Leon-Garcia and Indra Widjaja
- Computer and Communication Networks, Nadir F. Mir
- Data Communications and Networking, B. Forouzan
- Computer Networking with Internet Protocols and Technology, William Stallings

Prerequisite

C or C++, Unix (more details will be provided during lectures)

Instructor

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Updated course information will be posted on the course DEN page.