

Course name (English)	Computer Networks		
------------------------------	--------------------------	--	--

Course ID:	-	No of units:	3	Program:	Graduate
Prerequisites:	Probability and Statistics			Co-requisites:	Operating Systems
Prepared by:	Mehdi Kharrazi				

Outline

- Introduction
- Socket Programming
- IP Packet Switching
- IP Addressing and Forwarding
- Transport Protocols (UDP and TCP)
- Congestion Control
- Web Content Delivery
- Translating Addresses (DNS, DHCP, and ARP)
- Middleboxes
- Switches and Bridges
- Links
- Link-State Routing
- Distance-Vector and Path-Vector Routing
- Policy-Based Path-Vector Routing
- Overlay Networks
- Peer-to-Peer
- Multimedia Streaming
- Circuit Switching
- Wireless and Mobile Networks
- Delay/Disruption Tolerant Networks

References

Computer Networks: A Systems Approach (Fourth Edition), by Larry L. Peterson, Bruce S. Davie, March 2007.