

CSP 541: Internet Technologies

Texts

- W.R. Stevens, *TCP/IP Illustrated, Volume 1*, Addison-Wesley, ISBN 0201633469
- References: Various IETF RFC's

Objectives

- This course focuses on the technologies and protocols used by Internet WAN's and LAN's.
- The fundamental architecture, organization, and routing principles of the Internet are described.
- Part of the course will focus on emerging Internet technologies.

Prerequisites

- CS 455.

Syllabus

• Overview and history of the Internet	3 hours
• Architecture	3 hours
• Services Providers	3 hours
• Application protocols (HTTP, FTP, SMTP, SNMP)	6 hours
• Transport Protocols (TCP, UDP)	3 hours
• IP	3 hours
• Addressing, DHCP, DNS	6 hours
• OSPF, RIP, BGP	3 hours
• FR, ATM, MPLS	6 hours
• SONET, WDM	3 hours
• LAN Technologies	3 hours
• Emerging Technologies	3 hours
Total	45 hours

Edited March 2006 ([html](#), [css](#) checks)