

Data Link Layer -- error detection/correction, stop-and-wait protocol, sliding window protocol
Network Layer -- virtual circuit service, datagram service, routing, congestion control
LAN/WAN -- multiple access algorithms, ethernet, token ring, NSFNET, X.25
Internet protocols -- IP ARP RARP ICMP UDP TCP GGP EGP IGP EGMP DNS
UNIX Network Programming -- client/server model, UNIX systems programming services, BSD socket interface (local/remote interprocess communication mechanisms)

6. References. [Provide 3 - 5 references on which this course is based and/or support it.]

Tannenbaum, *Computer Networks*, 4th ed., Prentice Hall (2002) ISBN 0130661023
Comer, *Internetworking with TCP/IP*, Vol 1, 4th ed., Prentice Hall (2000) ISBN 0130183806
Stevens, *Unix Network Programming*, 2nd edition, Prentice Hall (1998) ISBN 013490012X

7. List Faculty Qualified to Teach This Course.

All Computer Science faculty.

8. Frequency.

a. Projected semesters to be offered: Fall ___X___ Spring _X___ Summer ___X___

9. New Resources Required.

a. Computer (data processing), audio visual, broadcasting needs, other equipment

Use of existing computer lab.

b. Library needs

none

c. Facility/space needs

none

10. Consultation.

Attach consultation sheet from all program areas, Library, and others (if necessary)

11. If this new course will alter any degree, credential, certificate, or minor in your program, attach a program modification.

Proposer of Course

Date