College of Computer Science | Spring 2003
Northeastern University | Handout 1
COM 1337/3501: Comupter Communication Networks | 27 March 2003

Computer Communication Networks

Class Meeting Times/Location. 315 SH, TTh 5:20–7:00 PM.

Instructor. Rajmohan Rajaraman; Email: `rraj@ccs.neu.edu`; Phone: 617–373–2075; Office: 113 Cullinane Hall.

Office Hours. T 12:30–1:30 and Th 11:00–12:00.

Teaching Assistant. Lujun Jia; Email: `lujunjia@ccs.neu.edu`; Office: 222 Egan; Phone: 617-373-5878 Office hours: W 2:00-4:00

Course Home Page. `http://www.ccs.neu.edu/home/rraj/Courses/1337/S03/`.

Course Description. Introduces the fundamental concepts of internetworking. Presents the different harmonizing functions needed for the interconnection of many heterogeneous computer networks. Internet protocols, such as TCP, IP, ARP, BGP and IGMP, are used as examples to demonstrate how internetworking is realized. Applications such as electronic mail and the WWW are studied. Topics include: internetwork architectures, protocol implementation, addressing and address mapping, intra- and inter-domain routing, multicasting, resource allocation, transport protocols, naming, client-server model, network programming interfaces (e.g., sockets), and applications. Includes programming assignments.

Textbook. The required textbook for the course is

Computer Networks: A Systems Approach, by L. Peterson and B. Davie, Morgan Kauffman, 2000, 2nd edition.

Grading. The course grade will be based on 4 to 5 assignments (total 45%), a midterm (20%), and a final exam (35%).

Assignments. We will have both written and programming assignments. Written assignments are due at the beginning of class. Programs are due by 11:59 PM on the due date. As a general rule, the penalty on late homework (written or program) will be 10% per day and no homework will be accepted beyond 1 week past its due date. Students may discuss the homeworks with one another, but *solutions and programs should be written up separately.* If a key idea is obtained from another person (other than the instructor) or from another book or paper (other than the course textbook), then the source of that idea should be cited.

Exams. The midterm will take place in class on Thursday, May 8. The final exam will take place during finals week.