Performance analysis of computer networks (Winter, 2006)

CRN 20212 Course Number ECE-C632 Section Number 501 Credits 3.0 Time Thursdays 6pm - 8:50pm Room Randell Hall 329 Steven Weber Instructor Restrictions graduate standing Department Electrical and Computer Engineering

Description

Covers probability theory and its applications to networks, random variable and random processes; Markov chains, multi-dimensional Markov chains; M/M/1, M/M/m, M/M/m, M/M/m, M/G/1 and G/G/1 queueing systems and their applications in computer networks; analysis of networks of queues: Kleinrock Independence Approximation; Time-reversibility and Burke's theorem; Jackson's theorem; the phenomenon of long-range dependence and its implications in network design and traffic engineering.

Textbook (required)

Title Communication Networking: An Analytical Approach

Authors Anurag Kumar, D. Manjunath, and Joy Kuri

Publisher Morgan Kaufmann

ISBN 0124287514

Edition 1^{st}

Grading

Homework (one problem set per week) 20%Midterm Exam 40%Final Exam 40%

Homework and Makeup Exams

Makeup exams are only available if you are unable to attend due to a severe health problem or a death in your family. Homework is due at the **beginning** of class, one week following the class in which they were assigned. Late homework will not be accepted.

Academic Dishonesty

The Drexel University policy on academic dishonesty may be found at

http://www.drexel.edu/cchc/studentlife/Judicial/code/dishonesty.html and will be strictly enforced. Plagiarism, fabrication, and cheating will, at the discretion of the instructor, constitute grounds for failure of the course.