Instructor: S.K. Dhall, #134 EL, TEL: 325-4042

Office Hrs: 11:30am – 1:00 pm T, R

Text: There is no prescribed text. Material for the course will be drawn from papers, instructor’s notes, and the following books, which have been placed on reserve in the Engineering Library:

1. Operating Systems Theory by Coffman and Denning.

Course Outline:
Concurrent Processes:
Critical section, mutual exclusion, synchronization primitives, monitors, Critical Regions, Path expressions.
Deadlocks.
Processor Scheduling: Deterministic and Probabilistic models.
Computer Security:
Model for access control, flow-secure access control, information flow control.
Virtual Memory:
Paging and segmentation, page replacement algorithms, stack and priority algorithms, the cost function determination, the extension problem, the working set principle and its relation with LRU.
Secondary Memory.

Homework: All homework should be turned in when due. The homework must be typed. Late and/or illegible work will not be accepted. Homework will count for 40% towards the final grade.

Examinations: Mid-term Exam (25%): June 18, 2009
Final Exam (35%): July 2, 2009

Grade assignment will be as follows: 'A': 90% and above; 'B': 78% - 90%; 'C': 65% - 78%; 'D': 50% - 65%; 'F': below 50%.

ANY STUDENT IN THIS COURSE WHO HAS A DISABILITY THAT MAY PREVENT HIM/HER FROM FULLY DEMONSTRATING HIS/HER ABILITIES SHOULD CONTACT ME PERSONALLY AS SOON AS POSSIBLE SO WE CAN DISCUSS ACCOMMODATIONS NECESSARY TO ENSURE FULL PARTICIPATION AND FACILITATE YOUR EDUCATIONAL OPPORTUNITIES.