

COMP 790-088

Networked and Distributed Systems

Fall 2009

Logistics

- *Class Timings:* Mon/Wed, 9:30 – 10:45 pm
 - *Classroom:* FB 007
 - *Instructor:* Jasleen Kaur
 - *URL:* <http://www.cs.unc.edu/~jasleen/Courses/Fall09/>
 - *Email:* jasleen@cs.unc.edu
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Grading

Rough breakdown:

- Programming and Written Assignments: 25 %
 - Oral Exam(s): 40%
 - Class participation: 10 %
 - Project: 25%
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Course Topics

Topics to be covered in the first half of the course include:

Error Detection, Shared Media Access, Forwarding Approaches, IP service model, Addressing, Routing Protocols, BGP, Classless Inter-domain Routing, Reliability, Flow Control, Congestion Control.

Topics to be covered in the second half of the course include:

Virtualization (VPNs, NATs, Overlay Networks), DNS, Indirection (I3, Mobile IP, Multicast), DHTs, Content Distribution Systems, and Distributed File Systems (including AFS and Google File System).

Pre-requisites

COMP 530 (Operating Systems), COMP 431 (Internet Services and Protocols), Socket Programming, Working knowledge of Unix.
