

CS138: Distributed Computer Systems

Course Information and Syllabus Semester II, 2008–2009

Lectures	K hour: 2:30–3:50 on Tuesdays and Thursdays
Room	CIT 368
Lecture Notes	http://www.cs.brown.edu/courses/cs138/lectures.html
Text	Distributed Systems: Concepts and Design, 4th Edition, by G. Coulouris, J. Dollimore, and T. Kindberg, Addison Wesley, 2005
Prerequisite	CS 32 or CS 36
Instructor	Tom Doepner (twd@cs.brown.edu)
Office	CIT 405, x3-7633
Office Hours	Mondays 1-3, Tuesdays 4-5, by appointment, or just stop by
Head TA	Allan Shortlidge (allan@cs.brown.edu)
UTA	Chris Siden (csiden@cs.brown.edu)
Requirements	4 Programs (40%) 4 Homeworks (20%) Midterm Exam (10%) Final Exam (30%)
Incomplete Policy	Incompletes are granted only under exceptional circumstances (e.g. severe illness, death in the family, kidnapping, etc.; <i>too heavy of a course load is not sufficient reason for an incomplete</i>). Getting a dean to certify your reason for requesting an incomplete helps, but is not sufficient.
Due Dates	Assignments are due at 11:59pm (10pm for assignments due Fridays)
Late Policy	Everyone is allowed a total of 3-days lateness on assignments free of charge. Beyond that, you are penalized 25% of the assignment's value for each day it is late (but you will not be penalized for more than the assignment's value). We will apply late days to assignments in an optimal fashion (with respect to your grade).

Lectures and Due Dates

Date	Topic	Out	Due
Jan 22	Introduction	Final project; Chord	
Jan 27	Peer-to-Peer I		
Jan 27 7pm	Chord help session		
Jan 29	Peer-to-Peer II		
Feb 3	Peer-to-Peer III		
Feb 5	Comm: Networks		
Feb 9			Chord
Feb 10	Comm: RMI, etc.	Tapestry	
Feb 12	Server Design	HW1	
Feb 12 7pm	Tapestry help session		
Feb 17	Holiday!		
Feb 19	Security		
Feb 24	DFS: NFS, AFS, Coda		HW1
Feb 26	GFS, Map-Reduce		
March 2			Tapestry
March 3	Name Services	HW 2	
March 5	Time I		
March 10	Time II		HW2
March 12	Coord and Agreement I	Virtual Synchrony	
March 17	Coord and Agreement II		
March 17 7pm	Virtual Synchrony help session		
March 19	Midterm		
March 24	Holiday!		
March 26	Holiday!		

March 31	Coord and Agreement III		
April 2	Transactions and Concurrency Control I	HW3	
April 6			Virtual Synchrony
April 7	Transactions and Concurrency Control II		
April 9	Distributed Transactions		HW3
April 10			Final Project Design
April 14	Replication I		
April 16	Replication II	HW4	
April 21	Wrap Up		
April 23			HW4
May 5			Final Project
May 13	Final Exam: 9am – noon		