

CS138: Distributed Computer Systems

Course Information and Syllabus Semester II, 2011–2012

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
Recommended Text	Distributed Systems: Concepts and Design, 5th Edition, by G. Coulouris, J. Dollimore, T. Kindberg, and G. Blair, Addison Wesley, 2012
Prerequisite	CS 32
Instructor	Tom Doeppner (twd@cs.brown.edu)
Office	CIT 405, x3-7633
Office Hours	Mondays 4-5, Wednesdays and Fridays 3-4, by appointment, or just stop by
Head TA	Kyle Cackett (kcackett@cs.brown.edu)
Grad TA	Andrew Ferguson (adf@cs.brown.edu)
UTAs	Hoabart Reynolds (hcreynol@cs.brown.edu) Andrew Scheff (ajscheff@cs.brown.edu)
Requirements	4 Programs (45%) 4 Homeworks (20%) Midterm Exam (10%) Final Exam (25%)
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
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 26	Introduction	Chord	
Jan 31	Peer-to-Peer I		
Jan 31, 7pm	Chord help session		
Feb 2	Peer-to-Peer II		
Feb 7	Peer-to-Peer III		
Feb 9	Comm: Networks		Chord
Feb 13, 7pm	Tapestry help session		
Feb 14	Comm: RMI, etc.	Tapestry	
Feb 16	Security I	HW1	
Feb 21	Holiday!		
Feb 23	Security II		
Feb 28	Servers		HW1
March 1	Time		
March 6	Global State		
March 8	Virtual Synchrony	HW 2	Tapestry
March 13	Gossip	Virtual Synchrony	
March 13, 7pm	Virtual Synchrony help session		
March 15	Bayou		HW2
March 20	Distributed File Systems I		
March 22	Midterm		
March 27	Holiday!		
March 29	Holiday!		
April 3	Distributed File Systems II		
April 5	GFS, Map-Reduce	HW3	Virtual Synchrony

April 10	Distributed Transactions	Final Project	
April 12	Final Project Discussion		HW3
April 17	Consensus		Final Project Design
April 19	Self-Stabilizing Systems		
April 24	Dynamo		
April 26	Current Work in Distributed Systems	HW4	
May 3			HW4
May 7			Final Project
May 12	Final Exam: 9am – noon		