

# CS138: Distributed Computer Systems

## Course Information and Syllabus Semester II, 2007–2008

<b>Lectures</b>	K hour: 2:30–3:50 on Tuesdays and Thursdays
<b>Room</b>	CIT 368
<b>Lecture Notes</b>	<a href="http://www.cs.brown.edu/courses/cs138/lectures.html">http://www.cs.brown.edu/courses/cs138/lectures.html</a>
<b>Text</b>	Distributed Systems: Principles and Paradigms, 2 <sup>nd</sup> Edition, by A. S. Tanenbaum and M. Van Steen, Pearson Prentice Hall, 2007
<b>Prerequisite</b>	CS 32 or CS 36
<b>Instructor</b>	Tom Doepfner (twd@cs.brown.edu)
<b>Office</b>	CIT 405, x3-7633
<b>Office Hours</b>	Mondays 11-12, Tuesdays 4-5:30, or by appointment
<b>Head TAs</b>	Itay Neeman (ineeman@cs.brown.edu) Tim O'Donnell (tim@cs.brown.edu)
<b>UTAs</b>	Andres Douglas (adouglas@cs.brown.edu) Dan Kuebrich (dkuebrich@cs.brown.edu) Aurojit Panda (apanda@cs.brown.edu)
<b>Requirements</b>	5 Programs (40%) 4 Homeworks (20%) Midterm Exam (10%) Final Exam (30%)
<b>Incomplete Policy</b>	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.
<b>Due Dates</b>	Assignments are due at 11:59pm.
<b>Late Policy</b>	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	Reading	Out	Due
Jan 24	Introduction		Comm	
Jan 29	Models and Architectures	Chapters 1 and 2		
Jan 31	Servers	Chapter 3		
Feb 5	Communication	4.1	SDDB	
Feb 7	Communication	4.2		Comm
Feb 12	Communication	4.3 – 4.5	HW 1	
Feb 14	Naming	5.1 – 5.3		
Feb 19	Holiday!			
Feb 21	Naming	5.4		HW1
Feb 26	Consistency and Replication	7.1 – 7.2	Quorum	SDDB
Feb 28	Consistency and Replication	7.3 – 7.4		
March 4	Consistency and Replication	7.5		
March 6	Synchronization	6.1 – 6.2		
March 11	Synchronization	6.3 – 6.6	HW 2, Fault	Quorum
March 13	Fault Tolerance	8.1 – 8.4		
March 18	Fault Tolerance	8.5 – 8.6		HW2
March 20	In-class Midterm Exam			
March 25	Spring Break!			
March 27	Spring Break!			
April 1	Security	9.1 – 9.2	Final Project	
April 3	Security	9.2 – 9.4		
April 8	Distributed File Systems	Chapter 10	HW 3	Fault
April 10	Map Reduce			Final Project Proposals
April 15	Web-Based Systems	Chapter 12		HW 3

April 17	Advanced Topics			
April 22	Advanced Topics		HW 4	
April 24	Advanced Topics			
April 29				HW4
May 5				Final Project
May 15	<b>Final Exam: 9am – noon</b>			