Foundations of Distributed Computing

CS765C	*Handout 1*
Fall 2002	*27 August, 2002*
Rebecca N. Wright	*Syllabus*

Location, etc:

Place:	124 Burchard
Time:	6:15pm–8:45pm Tuesdays
Professor:	Rebecca Wright, e-mail: `rwright@cs.stevens-tech.edu`
Office Hours:	2-4pm Thursdays *by appointment only*, 213 Lieb
TA:	Philippe Cassafieres

Textbook:
Nancy Lynch, *Distributed Algorithms*, 1st Edition, Morgan Kaufmann Publishers, 1996.

Syllabus:

August 27	Introduction, Synchronous networks: Leader Election **Reading: ch. 1–3**
September 3	Synchronous networks: Distributed Consensus **Reading: ch. 6**
September 10	Homework 1 due Synchronous networks: More consensus problems **Reading: ch. 7**
September 17	Asynchronous shared memory model: Mutual Exclusion **Reading: ch. 8–10**
September 24	Asynchronous shared memory model: Resource Allocation (The Dining Philosopher's Problem) **Reading: ch. 11**
October 1	Homework 2 due Asynchronous shared memory model: Distributed Consensus **Reading: ch. 12**
October 8	Fall Recess: No class
October 15	Midterm exam
October 22	Asynchronous shared memory model: Atomic Objects **Reading: ch. 13**

October 29	Asynchronous shared memory model: Atomic Objects, cont'd
November 5	HOMEWORK 3 DUE Asynchronous computing: Shared memory vs. networks **Reading: ch. 14, 17**
November 12	Asynchronous networks with process failures **Reading: ch. 21**
November 19	Secure Multiparty Computation **Reading: handout**
November 26	HOMEWORK 4 DUE Secure Multiparty Computation, cont'd **Reading: handout**
December 3	FINAL EXAM

Grading:

Homework Assignments	40%	(lowest score dropped)
Midterm Exam	25%	
Final Exam	25%	
Class Participation	10%	

Late policy:

Assigments are due at the *start* of class on their due dates. Late assignments will not be accepted. All exceptions must be cleared in advance.