

CS 1521 - Computer Science II
Section 1
Spring Semester 2008

Week	Lecture			Homework	Lab	Project	Quiz	Exam
	Monday	Wednesday	Friday					
1 1/22-1/25	No Class	Introduction <i>All I Really Needed...</i>	<i>Software Engineering</i> Ch 1 (pgs 3-24)	Homework 1 25 Points Due: Tue 1/29	Lab 1 25 Points Due: Thu 1/31	Project 1 50 Points Due: Thu 2/7		
2 1/28-2/1	<i>Software Design Issues</i> Ch 1 (24-45)	<i>Issues in Programming</i> Ch 1 (45-59)	<i>Intro to Recursion</i> Ch 2 (65-92)	Homework 2 25 Points Due: Tue 2/5	Lab 2 25 Points Due: Thu 1/31		Quiz 1 15 Points Tue 1/29	
3 2/4-2/8	<i>Recursive Techniques</i> Ch 2 (93-112)	<i>Intro to ADTs</i> Ch 3 (121-139) Skip Axioms (139-141)	<i>Implementing ADTs</i> Ch 3 (141-164)		Lab 3 25 Points Due: Thu 2/7	Project 2 50 Points Due: Thu 2/21	Quiz 2 15 Points Tue 2/5	
4 2/11-2/15	<i>Intro to the Linked List</i> Ch 4 (171-184)	<i>Programming with Linked Lists</i> Ch 4 (184-194)	<i>Implementation of Pointer-Based List ADT</i> Ch 4 (194-208)	Homework 3 25 Points Due: Tue 2/19	Lab 4 25 Points Due: Thu 2/14		Quiz 3 15 Points Tue 2/12	
5 2/18-2/22	<i>Linked List Variations</i> Ch 4 (208-221)	C++ Coding examples	<i>Applications of Linked Lists</i> Ch 4 (221-227) Skip STL (227-235)		Lab 5 25 Points Due: Thu 2/21	Project 3 50 Points Due: Thu 3/6	Quiz 4 15 Points Tue 2/19	
6 2/25-2/29	<i>More Recursion</i> Ch 5 (247-256)	Midterm 1	<i>Recursion and Mathematical Induction</i> Ch 5 (256-272)	Homework 4 25 Points Due: Tue 3/4	Lab 6 25 Points Due: Thu 2/28			Midterm 1 160 Points Wed 2/27
7 3/3-3/7	<i>Intro to Stack ADT</i> Ch 6 (285-296)	<i>Implementing Stack ADT</i> Ch 6 (296-309) Skip STL Stack (309-311)	<i>Applications of Stack ADT</i> Ch 6 (311-329)	Homework 5 25 Points Due: Tue 3/11	Lab 7 25 Points Due: Thu 3/6	Project 4 50 Points Due: Thu 3/27		
8 3/10-3/14	<i>Stacks and Recursion</i> Ch 6 (329-331) <i>Intro to Queue ADT</i> Ch 7 (343-354)	<i>Queue ADT Implementation</i> Ch 7 (354-364,367) Skip STL Queue (364-367)	<i>Applications of Queue ADT</i> Ch 7 (368-378)		Lab 8 25 Points Due: Thu 3/13		Quiz 5 15 Points Tue 3/11	
Spring Break - Enjoy!								
9 3/24-3/28	<i>Inheritance</i> Ch 8 (387-398)	<i>Virtual Functions Friend Functions</i> Ch 8 (398-410)	<i>List ADT Revisited Class Templates</i> Ch 8 (411-426)	Homework 6 25 Points Due: Tue 4/1	Lab 9 25 Points Due: Thu 3/27	Project 5 50 Points Due: Thu 4/10	Quiz 6 15 Points Tue 3/25	
10 3/31-4/4	<i>Overloaded operators Iterators</i> Ch 8 (426-437) <i>Intro to Algorithm Analysis</i> Ch 9 (445-448)	<i>Algorithm Analysis</i> Ch 9 (448-462)	<i>Algorithm Analysis</i> Ch 9 (462-472)		Lab 10 25 Points Due: Thu 4/3		Quiz 7 15 Points Tue 4/1	
11 4/7-4/11	<i>Algorithm Analysis</i> Ch 9 (472-486) Skip STL Sort (487-491)	Midterm II	Snow day	Homework 7 25 Points Due: Tue 4/15	Lab 11 25 Points Due: Thu 4/10	Project 6 50 Points Due: Thu 4/24		Midterm 2 160 Points Wed 4/9
12 4/14-4/18	<i>Intro to Tree ADT</i> Ch 10 (499-515)	<i>Implementation of Tree ADT</i> Ch 10 (515-531) Skip Non-recursive Traversal (531-536)	<i>Intro to BST ADT</i> Ch 10 (536-552)	Homework 8 25 Points Due: Tue 4/22	Lab 12 25 Points Due: Thu 4/17			
13 4/21-4/25	<i>An Implementation of BST ADT</i> Ch 10 (552-563)	<i>Analysis of BST Treesort; External Files</i> Ch 10 (564-572) Skip STL Search and General Trees (572-577) <i>Intro to Table ADT</i> Ch 11 (589-595)	Project 7		Lab 13 25 Points Due: Thu 4/24	Project 7 50 Points Due: Thu 5/8	Quiz 8 15 Points Tue 4/22	
14 4/28-5/2	<i>Table ADT Implementations</i> Ch 11 (595-607)	<i>Table ADT - BST Implementation Intro to Priority Queue (PQ) ADT</i> Ch 11 (607-623)	<i>Heap-based PQ ADT Implementation; Heapsort</i> Ch 11 (623-630) Skip STL Tables and PQs (630-642)	Homework 9 25 Points Due: Tue 5/6	Lab 14 25 Points Due: Thu 5/1		Quiz 9 15 Points Tue 4/29	

15 5/5-5/9	<i>Intro to Hashing</i> Ch 12 (686-701) Skip Balanced Trees (649-686)	<i>Hashing Efficiency</i> <i>Issues</i> Ch 12 (701-707) <i>Intro to Graph ADT</i> Ch 13 (721-729) Skip <u>STL</u> (707-715,729-732)	<i>Graph Traversals - DFS; BFS;</i> <i>Applications - Topological Sort;</i> <i>Spanning Tree</i> Ch 13 (732-737,740-747) Skip <u>STL</u> (737-739)		Lab 15 25 Points Due: Thu 5/8		Quiz 10 15 Points Tue 5/6	
Finals 5/12-5/16	No Class	No Class	No Class					Final 260 Points Tue, May 13 th , 4:00 to 5:55 PM

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Last modified: Wed Apr 16 9:08:52 CDT 2008

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