Computer Engineering 12
Abstract Data Types and Data Structures

Spring 2005
Mondays, Wednesdays, and Fridays
10:30 am – 11:35 am
ENGR 106

Instructor
Instructor: Darren Atkinson
Office: ENGR 245
Office hours: Mondays, Wednesdays, and Fridays, 12:30 pm – 1:30 pm
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Textbooks

Teaching Assistants
Teaching assistants: Bill Yi and Xiang Li
Lab hours: Wednesdays, 2:15 pm – 5:00 pm and Thursdays, 2:30 pm – 5:00 pm
E-mails: xyi@scu.edu and ilexli@yahoo.com

Grading
Lab attendance: 5% (each and every week)
Programming projects: 15% (4/14, 4/28, 5/12, 5/26, and 6/2)
Midterm exams: 40% (4/18 and 5/16)
Final exam: 40% (6/8)

Overview
1. Abstract Data Types, Algorithmic Complexity
2. Searching, Hashing
3. Stacks and Queues, Linked Lists, project #1
4. Linked Lists, midterm exam
5. Recursion and Trees, project #2
6. Trees and Search Trees
7. Search Trees, project #3
8. Heaps and Sorting, midterm exam
9. Sorting and Graphs, project #4
10. Classes in C++, project #5