Computer Engineering 12
Abstract Data Types and Data Structures

Spring 2004
Mondays, Wednesdays, and Fridays
11:45 am – 12:50 pm
ENGR 105

Instructor

Instructor:	Darren Atkinson
Office:	ENGR 245
Office hours:	Mondays, Wednesdays, and Fridays, 10:00 am – 11:00 am
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Textbooks

Required:	Gilberg and Forouzan, *Data Structures – A Pseudocode Approach with C*, Brooks/Cole, 1998.
Reference:	Kernighan and Ritchie, *The C Programming Language*, 2nd edition, Prentice Hall, 1988.

Teaching Assistants

Teaching assistants:	Nirupama Locanindi and Sumit Naiksatam
Lab hours:	Thursdays, 11:50 am – 2:20 pm and 2:30 pm – 5:00 pm
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Grading

Programming projects:	20%	(4/22, 5/6, 5/20, and 6/3)
Midterm exams:	40%	(4/16 and 5/14)
Final exam:	40%	(6/9)

Overview

1. Introduction (Chapter 1)
2. Searching (Chapter 2)
3. Linear lists (Chapter 3), **midterm exam**
4. Linear lists, stacks and queues (Chapters 3, 4 and 5) **project #1**
5. Recursion and trees (Chapters 6 and 7)
6. Trees and search trees (Chapters 7 and 8), **project #2**
7. Search trees (Chapter 8), **midterm exam**
8. Heaps and sorting (Chapters 9 and 11), **project #3**
9. Sorting and graphs (Chapters 11 and 12)
10. Classes in C++, **project #4**