

## Suggested Readings from Shaffer (third edition)

<u>Lect</u>	<u>Topics</u>	<u>Sections</u>
1a	Introduction	1.1, 1.3-1.5
1b	Searching – linear search, binary search	pages 54, 72-73, 9.1
2a	Sorting – insertion sort, bubble sort, selection sort	7.1, 7.2
2b	Complexity analysis	2.4, 2.7, 3.1, 3.3-3.5
3a	More complexity analysis	3.2, 3.6-3.9
3b	Linked lists	4.1-4.1.4
4a	Doubly linked lists and Binary trees	4.1.5, 5.1, 5.3.1, 5.4
4b	Recursion and Binary tree operations	2.5, 5.2
5a	Sorting – quicksort, mergesort	7.4, 7.5
5b	Binary search trees	5.4
6a	Complexity analysis – recurrence relations	2.4, 14.2.2
6b		
7a	Stacks	1.2, 4.1, 4.2
7b	Queues, Priority Queues	4.3, 5.5
8a	Heaps, Heapsort	5.3.3, 7.6
8b	Breadth-first search, Depth-first search	11.3.1, 11.3.2
9a	Graphs and Graph algorithms	11.1, 11.4, 11.5.1
9b	Grammars	see website
10a	Grammars	see website
10b	Game trees	see website
11a	Hashing	9.4
11b		

## Suggested Readings from Shaffer (old/java edition)

<u>Lect</u>	<u>Topics</u>	<u>Sections</u>
1a	Introduction	1.1, 1.3-1.5
1b	Searching – linear search, binary search	pages 42, 60-62, 10.1
2a	Sorting – insertion sort, bubble sort, selection sort	8.1, 8.2
2b	Complexity analysis	2.5, 2.7, 3.1, 3.3-3.5
3a	More complexity analysis	3.2, 3.6-3.9
3b	Linked lists	4.1-4.1.4
4a	Doubly linked lists and Binary trees	4.1.5, 5.1, 5.3.1, 5.5
4b	Recursion and Binary tree operations	2.4, 5.2,
5a	Sorting – quicksort, mergesort	8.4, 8.5
5b	Binary search trees	5.5
6a	Complexity analysis – recurrence relations	2.5, 14.2.2
6b		
7a	Stacks	1.2, 4.1, 4.2
7b	Queues, Priority Queues	4.3, 5.6
8a	Heaps, Heapsort	5.3.3, 8.6
8b	Breadth-first search, Depth-first search	7.3.1, 7.3.2
9a	Graphs and Graph algorithms	7.1, 7.4, 7.5
9b	Grammars	see website
10a	Grammars	see website
10b	Game trees	see website
11a	Hashing	10.4
11b		