

Mar 13 Day 01	BinaryArraySearch Arrays	MaxFinder pp.3-7,9,25,36-41 pp.47,172-175	Data Abstraction Bag, Queue, Stack pp. 96-99 pp. 121-129	Algorithm Analysis Big O notation pp. 132-141 pp. 176-183
Mar 20 Day 05 HW 1	Linked List Type Big O notation pp. 142-157	Sorting Principles Sorting Variations pp. 243-257	MergeSort HW1 due 10% pp. 271-287	Symbol Table Linked Lists pp. 361-374
Mar 27 Day 09	Hash Tables pp. 458-463	Wellness Day	Separate Chaining pp. 464-468	Linear Probing Review pp. 469-477
Apr 03 Day 12 HW 2 Exam 1	Heap Data Type Priority Queue pp. 308-314	Review HW2 due 15% pp. 315-327	EXAM 1 20% of grade	BinaryTree pp. 396-414
Apr 10 Day 16	BinaryTree Traversals	Balanced BSTs AVL trees	Balanced BSTs AVL trees	Expression Trees
Apr 17 HW3 Day 20	Patriots Day Holiday	Undirected Graphs DFS HW3 Due 15% pp. 515-537	Undirected Graphs BFS pp. 538-542 pp. 548-556	Project Presentation Day No Lecture
Apr 24 Day 22	Directed Graphs pp. 566-583	Explanation of Θ , Ω	Directed Weighted Graphs Single-Source SP pp. 604,638-657	Bellman-Ford A* Search, BFS, DFS pp. 668-683
May 1 Day 26 HW 4 Exam 2	Quicksort <moved to here> pp. 288-307	Review HW4 Due 15%	EXAM 2 25% of grade Wednesday May 3rd	

Each homework assesses the material presented in lectures and found in readings. Homeworks are due electronically by 6PM on the day the assignment is due. There is a 25% late penalty if received after this deadline.

20% Exam 1	10% HW1 – Recursion, Counting, Fundamental Data Types, Mathematical models 15% HW2 – Searching / Linked Lists / Symbol Tables
25% Exam 2	15% HW3 – Searching / Hash Table / Binary Search Trees / AVLs 15% HW4 – Graphs / DFS / BFS / Searching / Balanced BST / Graph Algorithms

Any revisions to this syllabus will be announced in class and **highlighted in red**.