

		<b>Wed Mar 24</b> <b>Day 01</b> 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
<b>Mar 29</b> Day04 HW 1	Algorithm Analysis Big O notation pp. 132-141 pp. 176-183	Linked List Type Big O notation pp. 142-157	Sorting Variations pp. 243-257	MergeSort pp. 271-287
<b>Apr 05</b> Day08 HW 2	Quicksort <b>HW1 Due</b> pp. 288-307	Symbol Table pp. 361-374	Hash Tables pp. 458-463	Heap Data Type Priority Queue pp. 308-314
<b>Apr 12</b> Day12  Exam 1	HeapSort pp. 315-327	Linear Probing Review pp. 469-477	Review <b>HW2 Due</b>	<b>EXAM 1</b> 20% of grade
<b>Apr 19</b> Day16 HW3	<b>Patriots Day</b> <b>No Lecture</b>	BinaryTree pp. 396-414	BinaryTree Traversals	Balanced BSTs AVL
<b>Apr 26</b> Day19	Balanced BSTs Undirected Graphs AVL pp. 515-527	Undirected Graphs DFS <b>HW3 Due</b> pp. 528-537	Undirected Graphs BFS pp. 538-542 pp. 548-556	<b>Project</b> <b>Presentation Day</b> <b>No Lecture</b>
<b>May 03</b> Day22 HW 4	Directed Graphs pp. 566-583	Asymptotic Analysis $O(f(n))$ , $\Theta$ , $\Omega$ <b>HW4 Due</b>	Directed Weighted Graphs Single-Source SP pp. 604,638-657	Bellman-Ford A* Search, BFS, DFS pp. 668-683
<b>May 10</b> Day26 HW 5 Exam 2		<b>HW5 Due</b>	<b>EXAM 2</b> 25% of grade	

Each homework assesses the material presented in lectures and found in readings. Homeworks are due electronically by 2PM on the day the assignment is due. There is a 25% late penalty until 6PM. After 6PM no further submissions are allowed. This allows timely feedback from the graders.

<b>20% Exam 1</b>	<b>10%</b> HW1 – Recursion, Counting, Fundamental Data Types, Mathematical models <b>10%</b> HW2 – Searching / Linked Lists / Symbol Tables
<b>25% Exam 2</b>	<b>10%</b> HW3 – Searching / Hash Table / Binary Search Trees <b>10%</b> HW4 – Graphs / DFS / BFS / Searching / Balanced BST <b>10%</b> HW5 – Graphs / Advanced Graph Algorithms / Searching
<b>Daily Question Participation</b>	<b>5%</b> DQ – There will be more than 20 daily questions that I am asking you to complete to assess your knowledge. Each question is worth ¼% and you get credit just for participating

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