

		<b>Wed Mar 25 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 30</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 06</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 13</b> Day12  Exam 1	HeapSort  pp. 315-327	Linear Probing Review pp. 469-477	Review  <b>HW2 Due</b>	<b>MID-1 Question</b>
<b>Apr 20</b> Day16 HW3	<b>Patriots Day No Lecture</b>	BinaryTree pp. 396-414 <b>MID-2 Question</b>	BinaryTree Traversals <b>MID-3 Question</b>	Balanced BSTs  AVL <b>MID-4 Question</b>
<b>Apr 27</b> Day19	Balanced BSTs/AVL Undirected Graphs pp. 515-527 <b>MID-5 Question</b>	Undirected Graphs DFS pp. 528-537 <b>MID-6 Question</b>	Undirected Graphs BFS <b>HW3 Due</b> pp. 538-542,548-556 <b>MID-7 Question</b>	Directed Graphs pp. 566-583
<b>May 04</b> Day23 HW 4	Asymptotic Analysis $O(f(n))$ , $\Theta$ , $\Omega$ <b>HW4 Due</b>	Directed Weighted Graphs Single-Source SP pp. 604,638-657	Bellman-Ford  pp. 668-683	A* Search, BFS, DFS
<b>May 11</b> Day27 HW 5 Exam 2	Review	<b>Final Project Due</b>		

Each homework assesses the material presented in lectures and found in readings. Homeworks are due electronically by 6PM. After 6PM no further submissions are allowed. This allows timely feedback from the graders.

<b>20% Exam 1</b>	<b>12%</b> HW1 – Recursion, Counting, Fundamental Data Types, Mathematical models <b>12%</b> HW2 – Searching / Linked Lists / Symbol Tables
<b>25% Exam 2</b>	<b>12%</b> HW3 – Searching / Hash Table / Binary Search Trees <b>12%</b> HW4 – Graphs / DFS / BFS / Searching / Balanced BST
<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**.