

<b>Mar 14</b> 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
<b>Mar 21</b> Day05 HW 1	Linked List Type Big O notation  pp. 142-157	Sorting Variations  pp. 243-257	MergeSort  <b>HW1 due 10%</b> pp. 271-287	<b>Working with Linked Lists</b>
<b>Mar 28</b> Day09	Symbol Table  pp. 361-374	Hash Tables  pp. 458-463	Linear Probing Review  pp. 469-477	Heap Data Type Priority Queue  pp. 308-314
<b>Apr 04</b> Day13 HW 2 Exam 1	Review  <b>HW2 due 15%</b> pp. 315-327	<b>EXAM 1</b>  <b>20% of grade</b>	BinaryTree  pp. 396-414	BinaryTree Traversals
<b>Apr 11</b> Day17	Balanced BSTs  AVL trees	Balanced BSTs  AVL trees	Expression Trees	<b>Quicksort</b> <b>&lt;moved to here&gt;</b>  <b>pp. 288-307</b>
<b>Apr 18</b> HW3 Day21	<b>Patriots Day Holiday</b>	Undirected Graphs DFS <b>HW3 Due 15%</b> pp. 515-537	Undirected Graphs BFS pp. 538-542 pp. 548-556	<b>Project Presentation Day No Lecture</b>
<b>Apr 25</b> Day23	Directed Graphs  pp. 566-583	Explanation of $\Theta$ , $\Omega$	Directed Weighted Graphs Single-Source SP pp. 604,638-657	Bellman-Ford A* Search, BFS, DFS  pp. 668-683
<b>May 2</b> Day27 HW 4 Exam 2	Review  <b>HW5 Due 10%</b>	<b>EXAM 2</b>  <b>25% of grade</b>		

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.

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