

Week	Monday Recitation	Wednesday Lecture	Friday Lecture
Aug 28- Sep 1	R0: Prereq. Review Session - Induction - Recurrences	L1: Introduction - Administrivia - Towers of Hanoi - Mergesort - Quicksort <i>Homework 1 out, due next Thu</i>	L2: Divide-and-Conquer - Selection - Multiplication
Sep 4- Sep 8	LABOR DAY	L3: Backtracking - N-queens - Longest Inc. Subseq. (2x) <i>Homework 2 out, due next Fri</i>	L4: Dynamic Programming I - Fibonacci - Longest Inc. Subseq. (2x) (again but with DP)
Sep 11- Sep 15	R1: DP	L5: Dynamic Programming II - Edit Distance - Line Breaking	L6: Dynamic Programming II - Optimal BSTs - Max Ind. Set on Trees <i>Homework 2 due @ 11:59pm</i> <i>Homework 3 out, due in 1 wk.</i>
Sep 18- Sep 22	R2: Greedy	L7: Greedy - Scheduling - Stable Matchings	L8: Graphs - Basics/Representations - Searching (DFS/BFS) - Modeling <i>Homework 4 out, due in 1 wk.</i> <i>Homework 3 due @ 11:59pm</i>
Sep 25- Sep 29	R3: Graphs	L9: Shortest Paths I - Unweighted (BFS) - DAGs (DFS/DP) - Dijkstra's	L10: Shortest Paths II - Bellman-Ford - Floyd-Warshall <i>Homework 5 out, due in 2 wk.</i> <i>Homework 4 due @ 11:59pm</i>
Oct 2- Oct 6	R4: Shortest Paths	L11: Minimum Spanning Trees - Prim's - Kruskal's	Midterm 1 Covers Aug 28-Sep 29
Oct 9- Oct 13	R5: MST	L12: Network Flows and Cuts - Residual Graphs - Augmenting Paths	L13: Max-Flow Algorithms - Ford-Fulkerson - Max Flow - Min Cut Thm. <i>Homework 5 due @ 11:59pm</i> <i>Homework 6 out</i>

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Oct 16- Oct 20	FALL BREAK	L14: Applications of Max-Flow - Circulations, Demands - Bipartite Matchings - Project Selection	L15: Linear Programming - Modeling using LP - Simplex Algorithm Homework 7 out
Oct 23- Oct 27	R6: Max-Flows & Min-Cuts	L16: Duality - Simplex continued - Zero sum games	CLASS CANCELED Homework 8 out. Homework 6 due @ 11:59pm
Oct 30- Nov 3	R7: LPs	L17: Hashing - Basic analysis - Universal hashing	L18: Advanced hashing - Bloom filters Clustering - Single linkage Homework 9 out. Homework 7 due @ 11:59pm
Nov 6- Nov 10	R8: Hashing	L20: More Clustering - k-means - Graph Laplacian - Spectral Algorithm	Midterm 2 Covers Oct 2-Nov 3 Homework 8 due @ 11:59pm
Nov 13- Nov 17	R9: Clustering	L21: P vs. NP - 3-SAT - Vertex Cover - Independent Set	L22: Reductions - 3-Color - Hamiltonian Path/Cycle Homework 10 out, due in 1 wk. Homework 9 due @ 11:59pm
Nov 20- Nov 24	CANCELED	THANKSGIVING RECESS	
Nov 27- Dec 1	R10: Reductions	L23: Approximations I - Load Balancing - Set Cover	L24: Approximation II - LP Rounding - Set Cover again Homework 10 due @ 11:59pm
12/18: Final Exam @ 2:00-5:00 in lecture room			