1/20/22 Thu		1/18/22	Tue	Organizational Items	KT 1.2	
1/25/22 Tue	1			Five Representative Problems Mathematical Induction		DS1 Out
2	2			•	•	
2/1/22 Tue					•	PATout
2/3/22 Thu Graphs; Breadth First Search KT 3.2, 3.3 P51 Due/P52	3	1/27/22	Thu	•		
2/8/22 Tue Depth Birst Search; Entry and Exit Times; DPV 3.2, 3.3 KT 3.2, 3.3		2/1/22	Tue	Priority Queues, Graphs		
A	4	2/3/22	Thu	Graphs; Breadth First Search	KT 3.2, 3.3	PS1 Due/PS2 Out
2/10/22 Thu		2/8/22	Tue			
2/15/22 Thu		2/10/22	Thu	0. 0 11		
2/17/22 Thu Greedy Algorithms: Scheduling KT 4.1		2/15/22	Tue			PA1 Due/PA2 Out
2/22/22 Tue Greedy Algorithms: Shortest paths KT 4.4	5	2/17/22	Thu	Greedy Algorithms: Scheduling	KT 4.1	
1		2/21/22	Mon	non-lecture day		PS2 Due/PS3 Out
2/24/22 Thu Greedy Algorithms: Minimum spanning trees KT 4.5		2/22/22	Tue	Greedy Algorithms: Shortest paths	KT 4.4	
3/3/22 Thu		2/24/22	Thu	Greedy Algorithms: Minimum spanning trees	KT 4.5	
3/3/22 Thu Divide-and-Conquer: Merge Sort Solving Recurrence Relations KT 5.1, 5.2		3/1/22	Tue		KT 4.6, 4.7	
3/8/22 Tue Midterm Exam	7	3/3/22	Thu		KT 5.1, 5.2	
3/10/22 Thu		3/7/22	Mon	non-lecture day		PS3 Due/PS4 Out
3/10/22 Thu		3/8/22	Tue	Midterm Exam		
3 3/17/22 Thu		3/10/22	Thu		KT 5.3	PA2 Due/PA3 Out
3/17/22 Thu Finding closest pair of points KT 5.4, 5.5 3/22/22 Tue Finding closest pair of points Fast Integer & Matrix Multiplication 3/24/22 Thu Dynamic programming KT 6.1, 6.2 3/20/22 Mon non-lecture day PS4 Due/PS5 11		3/15/22	Tue	SDRING RREAK		
10 3/24/22 Thu		3/17/22	Thu	55		
3/24/22 Thu Dynamic programming KT 6.1, 6.2		3/22/22	Tue		KT 5.4, 5.5	
3/29/22 Tue Shortest paths with negative weights KT 6.8	10	3/24/22	Thu	, , ,	KT 6.1, 6.2	
11 3/31/22 Thu		3/20/22	Mon	non-lecture day		PS4 Due/PS5 Out
3/31/22 Thu Knapsack Problem KT 6.4, 6.7 PA3 Due/PA4	11	3/29/22	Tue	Shortest paths with negative weights	KT 6.8	
12 Min-Cut, Max-Flow KT 7.1, 7.2 4/7/22 Thu Residual Graphs, Ford Fulkerson Algorithm KT 7.1, 7.2 4/11/17 Mon non-lecture day PS5 Due/PS6 13 4/12/22 Tue Ford Fulkerson Algorithm, Bipartite matching KT 7.5, 7.10 14 4/14/22 Thu Polynomial Reductions KT 8.1, 8.2, 8.3 14 4/19/22 Tue P, NP, and NP-completeness KT 8.3, 8.4	11	3/31/22	Thu	-	KT 6.4, 6.7	PA3 Due/PA4 Out
12 4/7/22 Thu Residual Graphs, Ford Fulkerson Algorithm KT 7.1, 7.2 4/11/17 Mon non-lecture day PS5 Due/PS6 4/12/22 Tue Ford Fulkerson Algorithm, Bipartite matching KT 7.5, 7.10 4/14/22 Thu Polynomial Reductions KT 8.1, 8.2, 8.3 4/19/22 Tue P, NP, and NP-completeness KT 8.3, 8.4	12	4/5/22	Tue		KT 7.1, 7.2	_
4/12/22 Tue Ford Fulkerson Algorithm, Bipartite matching KT 7.5, 7.10 4/14/22 Thu Polynomial Reductions KT 8.1, 8.2, 8.3 4/19/22 Tue P, NP, and NP-completeness KT 8.3, 8.4		4/7/22	Thu		KT 7.1, 7.2	
13 4/14/22 Thu Polynomial Reductions Polynomial Certifiers KT 8.1, 8.2, 8.3 4/19/22 Tue P, NP, and NP-completeness KT 8.3, 8.4		4/11/17	Mon	non-lecture day		PS5 Due/PS6 Out
4/14/22 Thu Polynomial Reductions Polynomial Certifiers KT 8.1, 8.2, 8.3 4/19/22 Tue P, NP, and NP-completeness KT 8.3, 8.4	13	4/12/22	Tue	Ford Fulkerson Algorithm, Bipartite matching	KT 7.5, 7.10	
14		4/14/22	Thu		KT 8.1, 8.2, 8.3	
	14	4/19/22	Tue	P, NP, and NP-completeness	KT 8.3, 8.4	
77-7-1 M-completeness reductions		4/21/22	Thu	NP-completeness reductions	KT 8.4	
4/26/22 Tue Linear Programming <u>DPV Chap 7</u> PA4 Due		4/26/22	Tue	Linear Programming	DPV Chap 7	PA4 Due
15 4/28/22 Thu Review PS6 Due	15	4/28/22	Thu	Review		PS6 Due
TBA Final Exam			ТВА	Final Exam		