IE 335 Class Schedule 8/26/2021

Class #	Date	Day	Subject	Chapter	Assignment
1	23-Aug	Mon	syllabus - introduction	1	
2	25-Aug	Wed	Mathematical modeling intro	2	
3	27-Aug	Fri	Linear Programming I	3	
4	30-Aug	Mon	Linear Programming II	3	
5	1-Sep	Wed	LP outcomes	3	
6	3-Sep	Fri	multi period production pln.+ workers scheduling	W3	
	6-Sep	Mon	Labor Day - No Class		
7	8-Sep	Wed	Practice		HW1 Due
8	10-Sep	Fri	Quiz 1		
9	13-Sep	Mon	Python and Excel Solvers		
10	15-Sep	Wed	transportation problems	8	
11	17-Sep	Fri	assignment	8	
12	20-Sep	Mon	Shortest path	9	
13	22-Sep	Wed	dijkstras alg.	W8	
14	24-Sep	Fri	Min. Span. Tree	9	
15	27-Sep	Mon	max flow	9	
16	29-Sep	Wed	Practice		HW 2 Due
17	1-Oct	Fri	Quiz 2		
18	4-Oct	Mon	min cost	W8	
19	6-Oct	Wed	integer programming I	11	
20	8-Oct	Fri	integer programming II	11	
	11-Oct	Mon	October Break - No Class		
21	13-Oct	Wed	Practice		HW 3 Due
22	15-Oct	Fri	Quiz 3		
23	18-Oct	Mon	IP modeling - facility location & sudoku	11, W9	
24	20-Oct	Wed	convexity proof - lp optima at extreme points	A2,4,5	
25	22-Oct	Fri	simplex intro - pivot mechanics	4,5	
26	25-Oct	Mon	simplex special cases I		
27	27-Oct	Wed	simplex special cases II		
28	29-Oct	Fri	simplex - big M & 2 phase	4.6	
29	1-Nov	Mon	algebraic simplex	5.2	
30	3-Nov	Wed	B&B	11.6,11.7	HW 4 Due
31	5-Nov	Fri	Quiz 4		
32	8-Nov	Mon	duality	6.1-6.4	
33	10-Nov	Wed	duality	6.1-6.4	
34	12-Nov	Fri	duality & sensitivity analysis	6.5	
35	15-Nov	Mon	sensitivity analysis	6.5-6.7	
36	17-Nov	Wed	Practice		HW 5 Due
37	19-Nov	Fri	Quiz 5		
38	22-Nov	Mon	sensitivity analysis-Excel solver	6.8	
	24-Nov	Wed	Thanksgiving Vacation-No Class		
	26-Nov	Fri	Thanksgiving Vacation-No Class		
39	29-Nov	Mon	dual simplex	7.1	
40	1-Dec	Wed	Practice		HW 6 Due
41	3-Dec	Fri	Quiz 6		
42	6-Dec	Mon	Project management	22	
43	8-Dec	Wed	Heuristics	13	
44	10-Dec	Fri	Final Exam Review		HW 7 Due
	17-Dec	Fri	Final Exam (3:30pm-5:30pm) Room: Loeb Plyhs		

Most chapters are from Intro to Operations Research by Hillier and Lieberman, 11th Edition. (A -Appendix)

(W) Operations Research: Applications and Algorithms by W. Winston, Fourth edition. Thomson-Brooks, 2004.