

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	
	20-Sep	Mon	Shortest path	9	
12	22-Sep	Wed	dijkstras alg.	W8	
13	24-Sep	Fri	Min. Span. Tree	9	
14	27-Sep	Mon	max flow	9	
15	29-Sep	Wed	Practice		HW 2 Due
16	1-Oct	Fri	Quiz 2		
17	4-Oct	Mon	min cost	W8	
18	6-Oct	Wed	integer programming I	11	
19	8-Oct	Fri	integer programming II	11	
	11-Oct	Mon	October Break - No Class		
20	13-Oct	Wed	Practice		HW 3 Due
21	15-Oct	Fri	Quiz 3		
22	18-Oct	Mon	IP modeling - facility location & sudoku	11, W9	
23	20-Oct	Wed	convexity proof - lp optima at extreme points	A2,4,5	
24	22-Oct	Fri	simplex intro - pivot mechanics	4,5	
25	25-Oct	Mon	simplex special cases I		
26	27-Oct	Wed	simplex special cases II		
27	29-Oct	Fri	simplex - big M & 2 phase	4.6	
28	1-Nov	Mon	algebraic simplex	5.2	
29	3-Nov	Wed	B&B	11.6,11.7	HW 4 Due
30	5-Nov	Fri	Quiz 4		
31	8-Nov	Mon	duality	6.1-6.4	
32	10-Nov	Wed	duality	6.1-6.4	
33	12-Nov	Fri	duality & sensitivity analysis	6.5	
34	15-Nov	Mon	sensitivity analysis	6.5-6.7	
35	17-Nov	Wed	Practice		HW 5 Due
36	19-Nov	Fri	Quiz 5		
37	22-Nov	Mon	sensitivity analysis-Excel solver	6.8	
	24-Nov	Wed	Thanksgiving Vacation-No Class		
	26-Nov	Fri	Thanksgiving Vacation-No Class		
38	29-Nov	Mon	dual simplex	7.1	
39	1-Dec	Wed	Practice		HW 6 Due
40	3-Dec	Fri	Quiz 6		
41	6-Dec	Mon	Project management	22	
42	8-Dec	Wed	Heuristics	13	
43	10-Dec	Fri	Final Exam Review		HW 7 Due
			Final Exam		

Most chapters are from Intro to Operations Research by Hillier and Lieberman, 11th Edition. (A -Appendix)
 Operations Research: Applications and Algorithms by W. Winston, Fourth edition. Thomson-Brooks, 2010