Math 112   Game Theory Syllabus   Fall 2017

Week	Date	Game	Topic	Homework
1	8/25	Subtraction Games	Game Trees	1.1
	28	Grundy's Game	$\mathcal{P}$ and $\mathcal{N}$ positions	1.2
	30	Chessboard Games	More Examples	1.3
	9/1			**Quiz #1**
2	4			LABOR DAY
	6	Race Games	Adding Games	1.4
	8	Chomp	Base 2 Arithmetic	1.5
3	11	Nim	Nimbers	1.6
	13			**Quiz #2**
	15	Collection Nim	Values of Games	1.7
4	18	Frogs	More Examples	1.8
	20	Kayles	Splitting Games	1.9
	22	Cows	More Examples	1.10
5	25			**Review**
	27			**Test #1**
	29	Spinners	Probability	2.1
6	10/2			FALL BREAK
	4	Birthday Problem	Multiplication	2.2
	6	Yahtzee	Addition	2.3
7	9			**Quiz #3**
	11	Poker	More Examples	2.4
	13	Bingo	More Examples	2.5
8	16	Roulette	More Examples	2.6
	18			**Quiz #4**
	20	Rank	Expected Values	2.7
9	23	Sit Down	Properties of Averages	2.8
	25	Hog	Dice Games	2.9
	27			**Review**
	30			**Test #2**
10	11/1	Matrix Games	Domination	3.1
	3	More Matrix Games	Mixed Strategies	3.2
11	6	Letters	Graphical Solution	3.3
	8			**Quiz #5**
	10	Fingers	Oddment Solution	3.4
12	13	Larger Games	More Game Graphs	3.5
	15	Colonel Blotto	Matrices of Expectations	3.6
	17	High-Low	More Examples	3.7
13	20			**Quiz #6**
	22			THANKSGIVING
	24			THANKSGIVING
14	27	Football	Repeated Matrix Games	3.8
	29	Baseball	More Examples	3.9
	12/1	Even Larger Games	3×3 Oddment Method	3.10
15	4			**Review**
	6			**Test #3**
	8			**Review**
	14 (9-11 am)			**Final Exam**