

Class Assignments for Math 364 **Spring 2008** **R. Clark Robinson**

Book: "An Introduction to Game Theory" by Osborne

Homework	200
Midterm Test	100
Final	200
Total	500

Date	Section and Homework
Mar 31	1.1-1.3 Introduction
28	No Class
Apr 2	2.1-2.5 Strategic games
4	2.6-2.8 Nash equilibrium and best response functions
7	3.5 Auctions
8	Homework 1: 17.1, 27.1, 30.1, 33.1, supplemental problem on extrema
9	3.1-3.2 Duopoly
11	4.1 Expected payoffs for lotteries
14	4.2-4.3 Mixed strategies and mixed strategy Nash equilibria
15	Homework 2: 42.2, 59.1, 61.1, 85.1
16	4.5-4.6 Illustrations of mixed equilibria
18	4.10 Finding all mixed strategies
21	13.1-13.2 Evolutionary equilibria
22	Homework 3: 114.2, 114.3, give the best response functions, supplemental problem on a lottery
23	13.1-13.2 Evolutionary equilibria
25	5.1-5.2 Extensive games with perfect information, strategies, outcomes
28	5.3-5.4 Nash equilibria & Subgame perfect equilibria
29	Homework 4: 141.1, 141.3, 147.2, & supplemental problem on finding all the Nash equilibria
30	Midterm Test: Covers Chapters 1–4, 13
May 2	5.5 Finding subgame perfect equilibria
5	6.2 Stackelberg Duopoly
6	Homework 5: 156.2(a), 173.2 (for 156.2 a), 173.3 (but not the “variants..)
7	10.1-10.2 Imperfect information and strategies
9	10.3 Nash equilibria
12	10.4 Beliefs and sequential equilibria
13	Homework 6: 189.1, 316.1, 318.2 (for 317.1)
14	10.4 Beliefs and sequential equilibria
16	10.4 Sequential equilibria
19	10.5 Signaling games
20	Homework 7: 331.1 and two supplemental problems
21	10.5 & 10.7 Signaling games
23	14.1-14.7 Repeated games
26	Memorial Day
27	Homework 8: 335.2 and two supplemental problems
28	14.1-14.7 Repeated games
30	14.1-14.7 Repeated games
June 2	14.7, 14.9 & 14.10 Repeated games
3	No class, look at problems 431.1, 442.1
4	Review
6	Review
9	Final , Friday, 9–11 AM