

Fair Games

The following is an almost-complete list of games that we discussed in class or that came up on problem sets. Each of the following would be ‘fair game’ for a question in the final exam.

In Class:

Prisoners’ Dilemma (grade game)
Guess $2/3$ of the average number game
Invasion through the mountain passes
Hotelling Voting game (chose location on a line)
The Penalty-Shot Game (the most important game)
Partnership effort game (chose efforts, share profits)
Battle of the Sexes (hapless couple going to the movies)
Investor Co-ordination game (more investors, more returns)
Cournot Competition
Bertrand Competition
Voter-Candidate Model (chose to enter the election or not)
Schelling two-city location game (chose city)
Rock Paper Scissors
Serena and Venus Williams game
Evolution of social conventions in a coordination game
Hawk-Dove
Cash in the Hat (or the Venture Capitalist model)
Hungry Lions (and the sheep)
Stackelberg Competition
“Burning the boats” (burn plus run away or not)
Entry (enter or not, fight or not: also chain-store version)
Nim
Piles of stones in a rectangle (application of Zermelo’s theorem)
Duel (when to throw the sponge)
Ultimatum game (one-stage bargaining!)
Bargaining with alternating offers and discounting
Match-Maker game (sends couple to BofS: example of SPE)
Strategic investment decisions (whether to invest in new technology in Cournot)
Wars of Attrition.
Finite Repeated Prisoners’ Dilemma
Finitely Repeated Games with multiple stage-game equilibria examples.
Infinitely Repeated Prisoners’ Dilemma.
Repeated moral hazard
Revealing your costs in Cournot (informational unraveling)
Spence Education-Signaling game.
Auctions (last class: if time only)

On Problem Sets (Problem set number in brackets):

Committee Voting Game (1)
Splitting the Dollar (2)
The Linear-City Model (3)
On her majesty's secret service (4)
Sound Advice (4)
Surviving Must-See TV (6)
Monetary Policy rules versus discretion (6)
Principal-Agent problem (6)
Marienbad (7)
Not Survivor (7)
Hold-up problem (7)
Patent Race (7)
More Bargaining (8)
Information and Nuclear Safety (8)
Congestions and Toll Booths (8)
More War of Attrition (9)
It's a wonderful life (9)
Dating in the Burbs (9)
Burning Money (9)
Contributions then Divide the Revenue (10)
Heated Competition (10).