

Introduction to Game Theory
Syllabus: Econ 106G
Spring 2005

Professor Harold Cole
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Class: T-TH 2:00-3:15
Dodd 170
Sec 1

Textbook: Joel Watson, *An Introduction to Game Theory*, Norton & Co.. In addition to the text book, supplemental readings will be made available either in the form of handouts or posted to the web.

Grading: There will be two midterms and a final. The final grade will be based upon an average of the best midterm grade and the final. There will be no make-up exams for the midterms.

Contact: I encourage you to ask your questions in class, so that you and the other students can benefit from the discussion. If you want to email me a question, please put "econ161" in the subject heading. I will try to respond promptly. Office hours will be MW 1:30-2:30. Please let me know in advance if you're planning on coming to my office hours (you can do so by email).

Syllabus:

- A. *Representation of Games and Behaviors:* This section will cover the two standard forms by which games are represented, the extensive and the normal form, as well as how we represent agents strategies for playing these games. Recommended Reading chs. 1-5 of Watson.
- B. *Strategic Behavior in Static Settings: Dominance and Nash Equilibrium:* This section will analyze how we should expect rational agents to behave in static setting – i.e. in normal form games. Recommended Reading ch. 6-11 of Watson.
- C. *Strategic Behavior in Dynamic Settings:* This section will analyze extend our analysis of rational behavior to dynamic settings. Recommended Reading ch. 14-23 of Watson.