STAT/ECON 474 Game Theory
Midterm 2 Study Guide

- The second midterm is on Tuesday April 23.

- The exam will cover Chapters 8–11 and 13, plus stable matching. Extensive games, Bayesian games, extensive games with asymmetric information, signaling games, stable matching and repeated games.

- There is a reading guide on the webpage explaining which material your are responsible for in each chapter.

  `http://www.math.uic.edu/∼marker/stat473-F19/reading.html`

- You will have the full 75 minutes for the exam, but I expect most will finish in an hour or less.

- There is a week-by-week syllabus on the webpage:

  `http://www.math.uic.edu/∼marker/stat473-F19/wtw.html`

- The web page has some notes on a simple poker model, auctions and stable matching. In the auction notes you are not responsible for any of the detailed calculations, but you should know the basic concepts: dominance of bidding truthfully in second price auctions, the revenue equivalence theorem....

  • One of the best ways to study is to do the *Check Your Understanding* problems in the text.

- **Most** of the exam problems will be similar to the problem sets and practice problems, but there will also be several short answer questions like the ones on midterm one.

- You should be able to define subgame perfect equilibria, Bayes-Nash equilibria and perfect Bayesian equilibria, stable matchings, grim trigger strategies...