The following provides an outline of the topics that we will cover in the course.

There are several textbooks that you may consult for background readings on most of these subjects. They are:


You each should have access to the text by Mas-Colell, Whinston, and Green, (henceforth MWG) by now. That is the only required text. The texts above have very different styles and so if you find MWG a bit challenging at times, you may benefit from consulting one of the other texts, me, or your classmates for enlightenment. MWG provides the most comprehensive treatment of most of the topics that we will cover in this course. In each of the topics below I list the appropriate chapters from each text.

The course has four problem sets (equally weighted, and half of the grade in total) and a final exam (the other half of the grade). Each problem set covers a significant amount of material, and so leaving it until the night before it is due is not a good idea. You may consult with your classmates on the problem sets, but not until you have worked through each problem on your own, and you should turn in your own write-up in your own words. Late problem sets are not accepted without prior permission and good reason.
Syllabus

Markets and Uncertainty

- Introduction, Overview, Incomplete Information, Sunspots (1 lecture - April 3)
- Rational Expectations Equilibrium and No Trade Theorems (2.5 lectures - April 5, 10, 12)
  MWG 19, Kreps 6.5, Varian 6.2-6.4, Aumann Article.

Collusion and Cooperation

- Core Convergence and Walrasian Equilibrium, (2.5 lectures - April 12, 17, 19)
  MWG 18.
- Cooperative Game Theory (2 lectures - April 24, 26)
  MWG 18.

Market Imperfections

- Information Asymmetries: Moral Hazard and the Principal-Agent Problem. (2 lectures - May 1, 3)
  MWG 14, Kreps 16, Varian 8.4
- Information Asymmetries: Adverse Selection and Screening. (2 lectures - May 8, 10)
  MWG 13, Kreps 17, Varian 8.1-8.3.

Beyond Markets: Social Choice Theory and Voting
• May’s Theorem, Arrow’s Theorem (2 lectures - May 15, 17)
  MWG 21, Kreps 5

• Collective Decision Making, Gibbard-Satterthwaite Theorem, (1.5 lectures - May 22, 24)
  MWG 21, Kreps 5

• Mechanism Design and Implementation: Inefficient Bargaining, Public Goods Provision, Allocation Problems (2.5 lectures - May 24, 26, June 5)
  MWG 23, Kreps 18, Mechanism Theory Handout: http://ssrn.com/abstract=2542983

• MicroTheory in Action: Last Lecture June 7