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 five regular problem sets that will cover material as we go along. 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. Given that we will be grading entirely from the problem sets this year - due to the virus - you are to work entirely on your own on all of the problem sets. The honor code applies. This means that you are not to discuss the content of the problem sets in any way with anyone. We have made available the problem sets from last year if you want to cover those in a study group. Late problem sets are not accepted without prior permission and good reason.
Syllabus

Markets and Uncertainty

- Introduction, Overview, Incomplete Information, Sunspots (1 lecture - March 29)

- Rational Expectations Equilibrium and No Trade Theorems (2.5 lectures - March 31, April 5, 7)
  MWG 19, Kreps 6.5, Varian 6.2-6.4, Aumann Article.

Collusion and Cooperation

- Core Convergence and Walrasian Equilibrium, (2.5 lectures - April 7, 12, 14)
  MWG 18.

- Cooperative Game Theory (2 lectures - April 19, 21)
  MWG 18.

Market Imperfections

- Information Asymmetries: Moral Hazard and the Principal-Agent Problem. (2 lectures - April 26, 28)
  MWG 14, Kreps 16, Varian 8.4

- Information Asymmetries: Adverse Selection and Screening. (2 lectures - May 3, 5)
  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 10, 12)
  MWG 21, Kreps 5

• Collective Decision Making, Gibbard-Satterthwaite Theorem, (1.5 lectures - May 17, 19)
  MWG 21, Kreps 5

• Mechanism Design and Implementation: Inefficient Bargaining, Public Goods Provision, Allocation Problems (2.5 lectures - May 19, 24, 26)
  MWG 23, Kreps 18, Mechanism Theory Handout: http://ssrn.com/abstract=2542983

• MicroTheory in Action: Last Lecture June 2