Economics 200C: Games and Information concludes the microeconomics core. It provides an introduction to noncooperative game theory, developing methods for analyzing how people make decisions when their consequences are influenced by other peoples' decisions, and showing how to use those methods to analyze strategic and informational questions in microeconomics.

The course will meet from 8:00 (promptly)-9:50 on Mondays and Wednesdays in Economics Room 300, with the first class on Wednesday, April 2. (I have to be out of town on Monday, March 31; we will make up the date later in the quarter if necessary.) My office hours will be 2:00-3:00 on Wednesdays in Economics 319, but you can also see me at other times, preferably by appointment. Other information will be announced and posted on the class web page at http://weber.ucsd.edu/~vcrawfor/econ200C.htm, also reachable through the Department's course web page. My lecture notes are available on the course web page, as are my 1999-2002 midterm and final exams, which differ in unimportant ways from the original, printed versions. There are no formal homework assignments, but it is strongly recommended that you do at least the textbook problems recommended at the end of each section of my notes and practice on the old exams.

Students have two enrollment options. Those who just want to hear the lectures should enroll S/U; there will then be no formal requirements. Those who want a grade should enroll for one; their grades will be based on a midterm (40%) in class on Monday, May 5; and a final (60%) during exam week. Except in exceptional circumstances, exams will be given only at the regularly scheduled times. If you are a student who wants to attend the lectures, please enroll one way or the other; enrollments are an important source of resources for the Department.


Readings: The lectures will mainly follow:
Mas-Colell, Whinston, and Green, Microeconomic Theory, Oxford 1995 ("MWG" below)
Kreps, A Course in Microeconomic Theory, Princeton 1990 ("Kreps")
I have also listed some readings in:
McMillan, Games, Strategies, and Managers, Oxford 1992 ("McMillan")
Varian, Microeconomic Analysis, W. W. Norton 1992 (third edition) ("Varian")
I suggest that you do all the readings in MWG and Kreps below plus whatever else you find helpful. (Varian is helpful, but is not an adequate substitute for MWG and Kreps for our purposes.)
1. Introduction
MWG 217-233; Kreps 355-384; Varian 259-265; McMillan 3-41

2. Games with Simultaneous Moves ("Static Games")
MWG 235-253, 258-261, and 387-400; Kreps 387-417, 437-443, and 551-556; Varian 265-268

3. Games with Sequential Moves ("Dynamic Games")
MWG 267-282, 405-417, and 423-427; Kreps 401-402, 417-449, and 556-565; Varian 273-278

4. Infinite Horizon Games and Repeated Games
MWG 296-299, 400-405, and 417-423; Kreps 503-515, 524-526, and 551-565; Varian 269-271

5. Games with Asymmetric ("Incomplete") Information
MWG 253-257 and 282-296; Kreps 425-437 and 463-489; Varian 279-282

6. Adverse Selection
MWG 436-450; Kreps 625-629; Varian 466-469

7. Signaling and Screening
MWG 450-467; Kreps 629-652; Varian 469-471
Joseph Stiglitz, “Information and the change in the paradigm in economics,” American Economic Review (June 2002)

8. Agency
MWG 477-506; Kreps 577-614 and 661-674; Varian 441-466; McMillan 91-129

9. Incentives and Mechanism Design
MWG 857-910; Kreps 661-703; McMillan 133-159