Econometrics 220C

Department of Economics, UCSD Spring 2009

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Sections: Fridays 8:00 - 9:20, Econ 300.

Course Outline

Econ 220C introduces students to different areas of cross-sectional econometrics. The course consists primarily of 4 parts, 1) Panel Data Models, 2) Extremum Estimators, 3) Limited Dependent Variables, 4) Advanced Topics.

<u>Panel Data Models</u>: Applies to datasets that follow cross sections of individuals through time. We will study both (1) Static Panel Data Models and (2) Dynamic Panel Data Models.

Extremum Estimators: Includes MLE and GMM as special cases. We will study the consistency and asymptotic normality of these estimators.

Limited Dependent Variables: Include discrete choice Probit/Logit and censored regressions such as Tobit.

Advanced Topics: We will introduce concepts in Partial Identification and the implied nonstandard estimation problems.

Web Page

The course materials will be posted on webct.ucsd.edu, including all the class notes. Throughout the quarter I will make announcements through the mail function in WebCT. Please set up a forwarding address if you prefer to get the announcement in your regular email account.

Grading There will be 4 Problem Sets and a Final Exam.

<u>Problem Sets:</u> (50% of Final Grade) You may form a group with no more than three people and work together on the problem sets. Each student must hand in their own write up of the answer with the names of other students who helped in the problem set.

Final Exam: (50% of Final Grade) Exam will be a take-home final with open book and notes.

Textbook

HAYASHI F., "Econometrics". Princeton University Press, 2001.

WOOLRIDGE J., "Econometric Analysis of Cross Section and Panel Data". MIT Press, 2007.

<u>Comment:</u> Most of the material covered in class will be based off notes posted on webct. Therefore, while the textbooks are highly recommended, especially for students planning to study theoretical econometrics or do applied work, they are not essential for the class itself.

Additional References

AMEMIYA T., "Advanced Econometrics". Harvard University Press, 1985.

ARELLANO M., "Panel Data Econometrics". Oxford University Press, 2003.

GREENE W., "Econometric Analysis". Prentice-Hall, 2005.

HSIAO C., "Analysis of Panel Data". Cambridge University Press, 2005.