

**Syllabus for ECMT 675
Fall 2009**

Time and Location: MW 1:15pm-2:30pm
ALLN 1002
Review Session: Fr 3:00pm-4:15pm ALLN 1002

Instructor: Li Gan

Email: gan@econmail.tamu.edu
Office: Allen 3086
Office Hours: M 9:30am – 11:00am
Tu 1:30-3:00, or by appointment
Phone Number: 862-1667

Website of the class: <http://econweb.tamu.edu/gan/econometrics1.html>
All homework assignments and solutions will be posted at the website.

Teaching Assistant: Jian-Da Zhu

Email: jdzhu@neo.tamu.edu
Office: Allen 3004
Office Hours: MW 3:30pm-5:00pm

Textbook: Econometric Analysis of Cross-Section and Panel Data
by Jeffrey Wooldridge

Grade:

The final grade consists of three parts:

- 1) Homework assignments: 40%. There will be 8 homework assignments.
- 2) Two exams: 25% each (50% total)
The first exam will be held on **Wednesday, Oct 21st**, in class, covering the first part of the class.
The second exam will be held on **Wednesday, Dec 2nd**, in class, covering the second part of the class.
No makeup exams will be provided.
- 3) A short note on an “ideal empirical research:” 10%.
Assume you had the most “ideal” dataset, what questions you would have answered, what your empirical model would be, and what problems you may encounter to estimate such a model. Also describe your “ideal” dataset. **Due on Monday, Nov 23rd, in class.**

Topics to be covered (tentative):

- 1) A summary discussion of empirical research in economics
Chapter 1 and chapter 2

- 2) Classic linear regressions: chapter 4
- 3) Linear regressions with non-classic errors
 - a) Multi-collinearity
 - b) Heteroscedasticity
 - c) IV estimation (Chapter 5).
 - d) Two-Stage-Least Square (Chapter 5 and 6)
 - e) Weak IV problem
 - f) Specification tests (Chapter 6)
 - g) Diff-in-Diff estimator
- 4) System of equations (chapter 7 and 8)
- 5) Simultaneous equation models (Chapter 9)
- 6) Basic linear panel models (Chapter 10)

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AGGIE HONOR CODE

“An Aggie does not lie, cheat, or steal or tolerate those who do.”