

323 M7170
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EMPIRICAL STUDY AND FORECASTING (I)

經大講堂

Friday 19:25-21:15

- Class Webpage: http://ccms.ntu.edu.tw/~luohm/metrics_emea/metrics_emea.htm
- Textbooks:
 - (SW) Stock and Watson (2003), *Introduction to Econometrics*, Addison Wesley.
- Other Reference:
 - (W) Wooldridge (2003), *Introductory Econometrics— A Modern Approach*, 2nd ed., South-Western College Publishing. MIT press.
- Classes:
 - 2005/9/23, 30,**
 - 10/7, 14, 21, 28,**
 - 11/4,**
 - 11/11, midterm**
 - 11/18, 25**
 - 12/2, 9, 16, 23, 30**
 - 2006/1/6**
 - 1/13, final.**
- Grade: problem sets 20%, midterm 35%, final 45%.

- Topics:
 1. Economic Questions and Data (**SW 1**)
 - Questions
 - Data
 2. Review of Probability (**SW 2**)
 - Distributions
 - Random Sampling and Distribution of the Sample Average
 - Large-Sample Approximations
 3. Review of Statistics (**SW 3**)
 - Estimation of the Population Mean
 - Hypothesis Tests
 - Confidence Intervals
 4. Bivariate Regression (**SW 4**)
 - Probability Framework
 - Estimation and hypothesis testing
 - Homoskedasticity
 5. Multiple Regression (**SW 5**)
 - Omitted variable bias
 - Multiple regression model
 6. Nonlinear Regression Models (**SW 6**)
 - Modeling nonlinear regression functions
 - Interactions between independent variables
 7. Panel Data (**SW 8**)
 - Panel data with two periods
 - Fixed effects regression
 8. Binary Dependent Variable Models (**SW 9**)
 - Linear Probability Model
 - Probit and Logit Models
 9. Instrumental Variables Regression (**SW 10**)
 10. Experiments and Quasi-Experiments (**SW 11**)