

323 M7110
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EMPIRICAL STUDY AND FORECASTING (I)

經大講堂

Friday 19:30-21:20

- Class Webpage:
http://homepage.ntu.edu.tw/~luohm/metrics2011f_emea/metrics2011f_emea.htm
- Textbook:
 - (SW) Stock and Watson (2011), *Introduction to Econometrics*, Addison Wesley, 3rd edition.
- Classes:
 - 9/16, 23, 30,
 - 10/7, 14, 21, 28,
 - 11/4, 11,
 - 11/18, midterm exam,**
 - 11/25,
 - 12/2, 9, 16, 23, 30,
 - 1/6,
 - 1/13, final exam.**
- 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, SW 5**)
 - Probability Framework
 - Estimation and hypothesis testing
 - Homoskedasticity
5. Multiple Regression (**SW 6, SW 7**)
 - Omitted variable bias
 - Multiple regression model
6. Nonlinear Regression Models (**SW 8**)
 - Modeling nonlinear regression functions
 - Interactions between independent variables
7. Assessing Regression Studies (**SW 9**)
 - Internal and external validity
 - Threats to internal validity
8. Panel Data (**SW 10**)
 - Panel data with two periods
 - Fixed effects regression
9. Binary Dependent Variable Models (**SW 11**)
 - Linear Probability Model
 - Probit and Logit Models