

IBEC PHBU 430 Econometrics
The Dicke College of Business Administration
Ohio Northern University

Winter 2009-10

Instructor: [Kazuhisa Matsuda, Ph.D.](#)

Office: Room 124, Dicke Hall

Office Hour: 12:00 – 14:00 & 16:00 – 17:00 on MWRF.

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Class Schedule

Course	Days & Time	Room
CRN: 21864 Section: 01	MR 10:00 – 11:50 AM	DI 138

College Mission Statement:

Develop business and civic leaders for a changing world.

Course Objectives:

Econometrics plays important roles in very diverse disciplines such as economics, accounting, finance, marketing, management, history, political economy, and sociology. Knowledge of econometrics allows students to practice economics in the real world instead of just studying economics. This course opens a door for students to conduct and critique empirical studies in the business world.

This course is built as a first course in undergraduate econometrics and designed to provide practical knowledge to analyze data using numerous case studies in the field of economics, finance, and business. Students will learn how to use econometrics in order to describe the real-world economic phenomena, test hypotheses about economic theory, and forecast future economic activity. This course will not focus on the mathematics of econometrics which will be introduced only if it is necessary. The primary emphasis of the course will be:

- ✓ Understand the theoretical foundations of the classic linear regression model
- ✓ Estimate the parameters of the classic linear regression model.
- ✓ Conduct hypothesis tests and accurately interpret the results.

In terms of statistical software package, this course requires the use of SAS which is available to all ONU students and probably the industry standard package. The knowledge of SAS will greatly advance your marketability on the job market.

This course covers the best of contemporary applied econometrics topics:

- ✓ Instrumental variables regression.

- ✓ Program evaluation.
- ✓ Forecasting.
- ✓ Time series regression.

Prerequisites:

- ✓ BIZ203 (IBEC203)
- ✓ A calculus course: MATH 145 or 154 or 163
- ✓ A statistics course: STAT 142 or 146 or 156

Required Text:

Title: Introduction to Econometrics, 2/E
 Author: James H. Stock & Mark W. Watson
 Publisher: Addison-Wesley
 ISBN-10: 0321278879
 ISBN-13: 9780321278876

*This textbook is adopted by Harvard University, Harvard’s Kennedy School of Government, and Princeton University.

Course Grades:

In terms of exams, you will have one midterm exam and one final exam. Other components of your grade include series of assignments, team paper, positive contribution to the class, and the attendance.

Grade Component

	Date	Time	Weight	Cumulative
Midterm Exam	January 7 2010 Thursday	110 m	32%	Yes
Others			36%	
Final Exam	Feb/22/Mon/8:00-10:00 AM	120 m	32%	Yes

*I expect regular class attendance and positive contribution to the class throughout the semester in compliance with ONU Catalog.

*These are just plans. These plans are subject to change by the discretion of the instructor.

Grading Scale:

- A = 90-100
- B = 80-89
- C = 70-79
- D = 60-69
- F = 59 and below

CBA Policy: Messy or poor quality written work containing numerous errors in grammar, syntax, spelling, typos, etc. will receive substantially lower points. The instructor reserves the right to give an “F” for an assignment with excessive typos/mechanical errors/spelling errors.

Website:

- Visit <http://www.maxmatsuda.com>
- You can obtain all course materials at this website.

Team Works:

- Wall Street Journal Quiz
- Wall Street Journal article presentation
- Research Paper
- Chapter-end questions
- Stock trading game

Make-up Exam Policy:

Make-up exams will be allowed only in extenuating circumstances. Every effort should be made to take the test as scheduled. All make-ups must have the instructor’s approval.

Disabilities:

Students requiring particular accommodations because of physical and/or learning disabilities should contact their Dean’s office prior to the end of the first week of classes. That Dean’s office is then required to make contact with your instructor. If you have any questions, please feel free to speak with me.

Academic Honesty:

Academic policies as stated in the student code will be strictly enforced. (See Appendix C, Code of Student Academic Conduct, of the Student Code of Conduct.)

Course Outline & Required Readings:

Part 1: Introduction & Review

Chapter 1: Economic Questions & Data

Chapter 2: Review of Probability

Chapter 3: Review of Statistics

Part 2: Fundamentals of Regression Analysis

Chapter 4: Linear Regression with One Regressor

Chapter 5: Regression with a Single Regressor: Hypothesis Tests and Confidence Intervals

Chapter 6: Linear Regression with Multiple Regressors

Chapter 7: Hypothesis Tests and Confidence Intervals in Multiple Regression

Part 3: Further Topics in Regression Analysis

Chapter 10: Regression with Panel Data

Chapter 11: Regression with a Binary Dependent Variable

Chapter 12: Instrumental Variables Regression

Chapter 13: Experiments & Quasi-Experiments

Part 4: Regression Analysis of Economic Time Series Data

Chapter 14: Introduction to Time Series Regression & Forecasting

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