

**Principle of Econometrics**  
**Econ 4650-009 Spring 2016**

**Meeting Time and Location:** Online Class

**Instructor:** Komson “Off” Chanprapan  
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Office: OSH209 Wednesday 5:00-6:00pm

**Course Description:** Econometrics is one of the most useful tool in social and behavioral science or even pure science. It uses statistical tools to deal with data in order to find the patterns of relationship among data sets. It aims to explain the variation in data through the “model” and use it to forecast the variation of data under different assumptions. Econometrics is a very important knowledge for higher level of education and is widely demanded in private sector companies. This class provides the theoretical understandings of econometric theories and allows students to learn the applications of the theories to real data through the use of statistical program (Stata).

**Prerequisites:** College Algebra, ECON3620, ECON3650 or instructors consent.

**Credits:** 3 semester credit hours

**Textbook:** A. H. Studenmund, *Using Econometrics: A Practical Guide* (Any Edition), Pearson.

*Optional:*

D. Pavelin, *Principles of Econometrics: Stata Survival Guide manual* (ebook-\$41.22), McGraw-Hill. [ISBN: 9781308565361] **or**

A. C. Acock, *A Gentle Introduction to Stata* (Any Edition), Stata Press.

**Course Objectives:** Students become familiar with econometrics theories especially multivariate regression analysis, both in statistical foundations and applications through the use of statistical software (Stata). By the end of the course, students should be able to learn how to collect, summarize, and analyze cross-sectional data.

**Assignments and Exam:**

All of assignments and exam are on Canvas page (<https://utah.instructure.com/courses/363113>). Students are responsible to check every announcement on Canvas.

Individual Assignments	30%
Class Project (Due 4/17 by midnight)	30%
Final Exam (4/29)	40%

Stata can be used through the CSBC Virtual Lab (for support, go to <https://support.csbs.utah.edu/virtual-lab>) or in computer lab in OSH.

**Grading:**

A	>85
A-	81-85
B+	76-80
B	70-75
E	<30

*And/or by curving (I will decide which one will be the best for majority).*

**Policy:** *No make-up exam/assignment will be given, regardless of reason, except when required under University regulations. I will only give a makeup midterm and final if:*

1. You are very ill and have to be under a physicians care for this condition. Supply of a note from your physician has to be provided.
2. An immediate family member is very ill or has an emergency situation and you have a good reason why this prevents you from attending the exam. I will be the judge of whether your reason is good enough

## Class Schedule:

Week 1	Review of Statistics
Week 2	Regression Analysis
Week 3	Ordinary Least Squares
Week 4	Ordinary Least Squares
Week 5	Hypothesis Testing
Week 6	Model Specification I
Week 7	Model Specification II
Week 8	Dummy Variables
Week 9	Logistic Regression
Week 10	Spring Break
Week 11	Multicollinearity
Week 12	Heteroskedasticity
Week 13	Final Project
Week 14	Final Project
Week 15	Final Exam Review
Week 16	Final Exam