

Probability and Statistical Inference for Economists
Econ 3640-003 Spring 2016

Meeting Time and Location: OSH111 Wednesday 6:00-9:00pm

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

Course Description: This course introduces students to the foundations of statistical analysis. The topics included such as distribution, probability, statistical inference, etc. The basic understanding and applications of statistics will be applied to enrich the knowledge of inferences based on samples, specifically on distributions, estimators, confidence interval, hypothesis testing and regression analysis.

Prerequisites: College Algebra, ECON 2010, ECON 2020 or instructors consent.

Credits: 3 semester credit hours

Textbook: David S. Moore, George P. McCabe, William M. Duckworth, Layth Alwan. *The Practice of Business Statistics*. Third Edition. Publisher: W H Freeman

Course Objectives: Students become familiar with statistics theories and their applications through lectures the use of statistical software (Stata) on data. By the end of the course, students should be able to learn how to collect, summarize, present and analyze data. Students should be able to read and interpret statistical context in the news or articles and become educated consumers. Also, student should have enough background for further pursue in higher level statistics class if projected.

Assignments and Exam:

All of assignments will be posted on Canvas page (<https://utah.instructure.com/courses/363114>). Students are responsible to check every announcement on Canvas. Assignments are in-class group assignments. If students cannot participate in the day of assignment submission, individual submission shall be accepted. No late assignment will be accepted.

Group Assignments	30%
Midterm Exam (3/9 @ 6:00-8:00pm)	35%
Final Exam (5/4 @ 6:00-8:00pm)	35%

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	>90
A-	86-89
B+	81-85
B	76-80
B-	71-75
C+	66-70
C	61-65
C-	51-60
D+	31-50
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:

Date	Topics
1/13	Data and Distributions
1/20	Distributions/Relationships
1/27	Relationships/Data Production
2/3	Assignment 1
2/10	Probability and Sampling Distributions
2/17	Probability and Sampling Distributions/Probability Theory
2/24	Probability Theory
3/2	Assignment 2
3/9	Midterm Exam
3/16	Spring Break
3/23	Introduction to Inference
3/30	Introduction to Inference
4/6	Inference for Distribution
4/13	Inference for Propotions
4/20	Assignment 3
4/27	Reading Day
5/4	Final Exam