Syllabus

Johns Hopkins University
Part-Time Graduate Program for Applied Economics
440.605.81 Statistics
Fall 2013

Instructor: Michael Lettau
Class Schedule: September 4 – December 11
Blackboard Site for Course at http://blackboard.jhu.edu. Access to the site requires a Johns Hopkins Enterprise Directory (JHED) password.
E-Mail: mlettau1@jhu.edu (Please use this address only if the message system within Blackboard is not available.)

Course Description

This course covers the statistical theory behind empirical procedures commonly used in economic research. It is intended to provide the theoretical background for 440.606 Econometrics. Prerequisite: A course in Calculus.

Textbook


Assessment and Grading

Interim Exam 1 (20%) posted October 2, due October 9
Interim Exam 2 (20%) posted November 6, due November 13
Final Exam (30%) posted December 4, due December 11
Problem Sets (22%)

Participation (8%)

Problem sets are due at the end of each unit, although they will be accepted up to one week late without penalty. Students may work in groups, and the group may submit a single answer file for which each member of the group will receive credit.

Course Schedule
Unit 1: Descriptive Statistics
   Readings: Chapters 1–3

Unit 2: Probability Theory and Discrete Probability Distributions
   Readings: Chapters 4–5

Unit 3: Continuous Probability Distributions
   Readings: Chapter 6

Unit 4: Sampling and Sampling Distributions
   Readings: Chapter 7

Interim Exam 1: posted October 2, due October 9

Unit 5: Interval Estimation and Hypothesis Testing
   Readings: Chapters 8–9

Unit 6: Bivariate Probability Distributions
   Readings: Chapter 10

Unit 7: Bivariate Probability Distributions (continued)
   Readings: Chapter 11

Unit 8: Independence, Goodness-of-Fit Test
   Readings: Chapter 12

Interim Exam 2: posted November 2, due November 9

Unit 9: Conditional Distributions, Analysis of Variance
   Readings: Chapters 13

Unit 10: Simple Linear Regression
   Readings: Chapters 14

Unit 11: Complex Sampling Schemes
   Readings: Chapter 22 (available on web site for textbook)

Final Exam: posted December 4, due December 11

Policies
Getting Help

You have a variety of methods to get help on Blackboard. Please consult the help listed in the "Technical Help" link for important information. If you encounter technical difficulty in completing or submitting any online assessment, please immediately contact the designated help desk listed on the AAP online support page (http://advanced.jhu.edu/online/help/). Also, contact your instructor at the email address listed atop this syllabus.

University Policies

General

This course adheres to all University policies described in the academic catalog. A few to pay close attention to are noted below. JHU Ethics Statement: The strength of the university depends on academic and personal integrity. In this course, you must be honest and truthful. Ethical violations include cheating on exams, plagiarism, reuse of assignments, improper use of the Internet and electronic devices, unauthorized collaboration, alteration of graded assignments, forgery and falsification, lying, facilitating academic dishonesty, and unfair competition. Report any violations you witness to the instructor.

Plagiarism

Read and adhere to JHU’s policy: http://advanced.jhu.edu/students/plagiarism/

Dropping the Course

You are responsible for understanding the university's policies and procedures regarding withdrawing from courses found in the current catalog. You should be aware of the current deadlines.

Students with Disabilities

Johns Hopkins University is committed to providing reasonable and appropriate accommodations to students with disabilities. Students with documented disabilities should contact the coordinator listed on the accommodation request page. Further information and a request for accommodation form can be found at: http://advanced.jhu.edu/students/disability-accommodations/