FALL 2018 SYLLABUS

ECON 2843 HONORS STATISTICS     Prof. Alexander Holmes
435 Cate Center 1                 325-2861
OFFICE HOURS: MW 10:30-11:30AM & by appointment

REQUIRED TEXTS: FREE on line open sources text Open Stax College, *Introductory Statistics, Oklahoma Version*, Alexander Holmes found at:

http://openstaxcollege.org/pages/OklahomaStatistics
Or go to my web page at the Economics Department web site

EXAMINATIONS AND GRADED ASSIGNMENTS

There will be two one-hour examinations during regularly scheduled class periods. These will be announced approximately one week in advance. These examinations will each account for approximately 25% of your final grade. You will also write a regression analysis paper that will count for 15% of the grade leaving 35% being determined by a comprehensive final examination. The examinations will be problem solving in nature. The paper will require you to develop a theory that you will test using regression analysis. First you will be responsible for gathering relevant data and then run the OLS regression you feel tests your theory. And then, of course, write your conclusions. You will receive a detailed written assignment later as we move through the semester.

There will be no makeup examinations except for persons securing an official University excused absence through their channels. In any case, no examinations may be made up beyond the final day of regularly scheduled class. It goes without saying that unexcused missed examinations receive a zero grade.

SPECIAL NOTE: Any student who has a disability that may prevent him or her from fully demonstrating his or her abilities should contact me personally as soon as possible to make necessary accommodations.

CLASS PARTICIPATION AND OUT OF CLASS INSTRUCTION

It is hoped that discussion of the topic can be generated in class and thus questions may be cleared up in that way. However, I realize that there are always unanswered (unasked) questions and thus I will be available for more individual help. Please feel free to contact me about a mutually convenient time. The final exam is scheduled for COMPREHENSIVE FINAL EXAMINATION: 4:30-6:30 FRIDAY DECEMBER 14, 2018
COURSE OUTLINE:

The text for this course is an open sourced online FREE text. It is composed of 13 chapters and is augmented by OU Janux Online videos for each section. Janux can be accessed, also for free, by accessing the following web page and going from there through an “enrollment” process...Also FREE

https://janux.ou.edu/index.html#upcoming

We will work our way through the material as follows:

1-3  Sampling and Data, Descriptive Statistics, Probability theory
4    Discrete Probability Density Functions
5    Continuous Probability Density Functions
6    The Normal Probability Density Function

HOUR EXAMINATION #1 (Approximately 7th week)

7    The Central Limit Theorem
8    Confidence Intervals
9    Hypothesis Testing Theory
10-12 Various Tests of Hypothesis

HOUR EXAMINATION #2 (Approximately 13th week)

13   Linear Regression and Correlation

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