ECON 3406, SECTION 01, STATISTICS FOR BUSINESS 2

Spring 2020, 3 Hours, 1/7-5/5
WOLF PACT

Protecting the integrity of a degree from the Richards College of Business at the University of West Georgia is the responsibility of the administration, faculty, staff, and students of the college. Our mission is “To become a globally recognized college of business preparing forward-thinking, responsible leaders.” Responsible leaders are ethical leaders, and this behavior begins in the classroom. One of our Strategic Goals is to demonstrate “...commitment to the principles of honesty and integrity in interactions and undertakings, [and] accountability for personal behavior...”. As such, we have developed the Wolf Pact in an effort to promote and maintain the highest standards of integrity, professional behavior, ethical actions, and personal conduct.

The purpose of this pact is to maintain that a degree from the Richards College of Business at the University of West Georgia is held in high regard by all internal and external constituents, and that a degree from the University of West Georgia is as meaningful in the future as it is today.

I have reviewed the information in this syllabus, and I agree to abide by the policies stated. I will conduct myself in accordance with the RCOB Wolf Pact to protect the integrity of my degree and all those others who receive a degree from the Richards College.

Signature: ____________________________________________

917#: _______________________________________________

Date: ________________________________________________
ECON 3406: Statistics for Business II

DESCRIPTION
In this class we will learn what data are, how they are generated, and how they should be analyzed.

PREREQUISITES
College Algebra (MATH 1111), CISM 2201, ECON 3402

CLASS REQUIREMENTS
This class is hybrid, but mostly face-to-face. Two or three classes will be moved online. The only date I know for sure that will be online is April 7 at this point. You are not required to come to class, but in all likelihood you will not perform well if you miss too many classes. It has been my experience that strong performance and attendance are highly positively correlated and I expect you to be here. Additionally, there may be material from class on exams that may not be covered in the readings, homework, or online modules. Nonetheless, if you miss class, you need to either get notes from a classmate or from me.

INSTRUCTOR INFORMATION

NAME:
Michael Sinkey, Ph.D.

OFFICE LOCATION:
Miller Hall 1219 *new*!

CLASS TIME AND LOCATION:
Miller Hall 1308, TTh 11-1215.

OFFICE HOURS:
Tuesday and Thursday mornings, 9:00-10:30 AM. Other days and times may be available via appointment. I am also available for a phone call or online session if needed.

CONTACT INFORMATION:
Phone: 678-839-5166

Email: msinkey@westga.edu

Communication Preference: The most consistent way to get in touch with me is through your westga.edu e-mail. I don’t promise to respond to e-mail within a certain timeframe though I normally am fairly fast.
LEARNING GOALS
We will build on the following learning goals throughout the term:

- Use continuous probability distributions and sampling distributions in a variety of business applications (LG2, LG3, LG6, LG10)
- Construct and interpret interval estimates and hypothesis tests (LG2)
- Estimate regression models, evaluate the results of regression models, and use the results for prediction and forecasting (LG2, LG3, LG6, LG10)
- Use Microsoft Excel to generate descriptive statistics and perform regression and correlation analysis (LG2, LG3, LG12)
- A complete list of expected learning goals (LGs) for the Economics Department are online.

BOOKS AND MATERIALS
ACCESS TO A LAPTOP OR DESKTOP REQUIRED
We will use Excel in this class.

COURSE POLICIES
- Do not misbehave in class (think excessive talking and disrespect). There is no attendance requirement for this class so if you do not want to be in a classroom, don’t come.
- Do not insult, belittle, or make fun of other students in a class.
- Makeups are my sole discretion, but all makeup exams must be taken at 9 AM the next class period. If you cannot make the exam makeup, you will receive a zero unless you are hospitalized or a close family member is hospitalized or has passed away. Requests to take exams ahead of time can normally be accommodated.
- No smartphones as calculators. Academic dishonesty, such as communicating during a test, using external materials for assistance on a test, or copying someone else’s assignment, will receive a zero.

GRADING
There will be three midterms, a final, and four problem sets. The midterms and final will be worth twenty percent of your grade. The problem sets are worth twenty percent of your grade; five percent each.

I will eventually post your grades on CourseDen but you are responsible for coming to class and picking up your graded work. Please do not e-mail me regarding the grade on a particular assignment if you haven’t been to class to pick it up.
COURSE CALENDAR

WEEK 1, 1/7, 1/9
- Topics covered: Review mean, standard deviation, median, five number summary, normal distribution

WEEK 2, 1/14, 1/16
- Topics covered: formulating a hypothesis, confidence interval, one-sample mean

WEEK 3, 1/21, 1/23
- Topics covered: one-sample mean hypothesis tests, matched pairs, pooled t-stats, two-population t-stat

WEEK 4, 1/28, 1/30
- Topics covered: two-population t-stat, proportions t-stat, introduction to Chi-square test

WEEK 5, 2/4, 2/6
- Topics covered: finish Chi-square test, some review
- EXAM 1 is February 6.
- PROBLEM SET 1 (non-Excel) is due February 4 by 5 PM.
- PROBLEM SET 1 (EXCEL) is due February 8 by midnight.

WEEK 6, 2/11, 2/13
- Topics covered: F-test, introduction to single-factor ANOVA

WEEK 7, 2/18, 2/20
- Topics covered: single-factor ANOVA, two-factor ANOVA, start single-variable regression

WEEK 8, 2/25, 2/27
- Topics covered: single-variable regression

WEEK 9, 3/3, 3/5
- Topics covered: single-variable regression, multiple variable regression
- Everyone must come to class 3/5 to pick up the take-home test.

WEEK 10, 3/10, 3/12
- Topics covered: multiple variable regression
- Problem Set #2 is due March 10 by 5 PM.
- EXAM #2 (in-class) is March 12.
- EXAM #2 (take-home) is due March 12 by 5 PM.
WEEK 11, 3/24, 3/26
- Topics covered: introduction to forecasting, naïve model, error

WEEK 12, 3/31, 4/2
- Topics covered: exponential smoothing model, start double exponential smoothing model

WEEK 13, 4/7*, 4/9
- Topics covered: double exponential smoothing forecasts
- April 7’s class is online.

WEEK 14, 4/14, 4/16
- Topics covered: triple exponential smoothing and triple exponential smoothing forecasts

WEEK 15, 4/21, 4/23
- Topics covered: review
- PROBLEM SET #3 is due April 21 by 5 PM.
- EXAM 3 is April 23.

FINAL EXAM: TUESDAY MAY 5, 11 AM.

AMERICANS WITH DISABILITIES ACT:
Students with a documented disability may work with UWG Accessibility Services to receive essential services specific to their disability. All entitlements to accommodations are based on documentation and USG Board of Regents standards. If a student needs course adaptations or accommodations because of a disability or chronic illness, or if he/she needs to make special arrangements in case the building must be evacuated, the student should notify his/her instructor in writing and provide a copy of his/her Student Accommodations Report (SAR), which is available only from Accessibility Services. Faculty cannot offer accommodations without timely receipt of the SAR (defined as within two days of class start); further, no retroactive accommodations will be given. Accessibility Services is located in 123 Row Hall at the Student Development Center, telephone 678-839-6428

UNIVERSITY-WIDE SYLLABUS INFORMATION:
Please review the “Common Language for Course Syllabi” for university-wide updates. Even if you have read it before, the most current information is maintained at this site.