ECON 3402, 25H, STATISTICS FOR BUSINESS I-HONORS

Fall 2018, 3 credits, August 15, 2018 to December 14, 2018

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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: ________________________________
INSTRUCTOR INFORMATION

NAME:
Hilde Patron Boenheim, Ph.D.

OFFICE LOCATION:
Miller Hall 1303

OFFICE HOURS:
In person: Tuesdays and Thursdays 7:30 AM to 9:30 AM
Online: Monday through Thursday: 7:30 AM to 9:30 AM

CONTACT INFORMATION:
Phone: 678-839-5036
Email: hpatron@westga.edu

Communication Preference: I prefer for you to contact me using your UWG email.

COURSE INFORMATION

DESCRIPTION
Course description and purpose: In this course we study basic statistics concepts and emphasize their applications to business environments. The various topics include methods of presenting data, probability theory and distribution, central tendency and dispersion measures, hypothesis testing, and linear regression.

PREREQUISITES
Course prerequisites: MAT111 or MATH 1113, CISM 2201 and a 2.0 minimum GPA. You also need to have access to a computer and you must have access to the internet. Computer labs in the Richards College of Business have access to the software needed. Alternatively, students will be able to work in their own computers by accessing the same software online via SAS on Demand.

DELIVERY METHODS
We will have regular lectures, hands-on computer work, and online videos, readings, tutorials and quizzes. The online materials can be found in CourseDen (D2L).
LEARNING GOALS

We will build on the following learning goals throughout the term:

FIRST GOAL
Construct and interpret tabular and graphical methods of presenting qualitative and quantitative data.

SECOND GOAL
Construct and interpret summary numerical measures of location, variability, and association for the sample and the population.

THIRD GOAL
Apply basic probability concepts, expected value, and variance to a variety of business applications

FOURTH GOAL
Use discrete and continuous probability distributions and sampling distributions in a variety of business applications

FIFTH GOAL
Construct and interpret interval estimates and hypothesis tests

SIXTH GOAL
Estimate regression models, evaluate the results of regression models, and use the results for prediction and forecasting

SEVENTH GOAL
Use Microsoft Excel to generate descriptive statistics and perform regression and correlation analysis

In addition to the traditional course objectives and learning outcomes listed above, upon completion of this Honors course students should be able to:

FIRST HONORS GOAL
Demonstrate the ability to engage in higher order abstract, creative and critical thinking.

SECOND HONORS GOAL
Demonstrate the ability to explore, and if feasible, experiment with possible applications of their learning toward the solution of “real world” problems.

THIRD HONORS GOAL
Demonstrate the ability to explore and conduct discipline specific independent research and creative activities using a variety of resources

**FOURTH HONORS GOAL**
Demonstrate superior oral and written communication skills

**TEXTBOOKS AND MATERIALS**
There is no required textbook for this class. Any statistics textbook will have the material we will cover.

**COURSE POLICIES**

**LATE POLICY**
No late quizzes will be accepted. I will not re-open quizzes under any circumstance. All quizzes are now available. However, I will drop the lowest quiz score at the end of the semester. When you see the list of quizzes on courseden, you will see that one quiz says “dropped”. I have been unable to change the setting so that courseden doesn’t randomly tell you that it is dropping a quiz that you haven’t even taken. Please ignore this. I will drop the lowest quiz AT THE END OF THE SEMESTER.

**COURSEDen**
You will find videos, readings, tutorials and quizzes in CourseDen (D2L). You must complete all assignments within the datelines listed.

**ASSIGNMENTS**
We will have two exams, each worth 25%. We will have 9 online quizzes worth a combined 10%, two written projects worth 10% each, and a classroom presentation worth 10%. The presentation grade will include the quality of each student's individual presentation, and attendance and demeanor during other students' presentations

**EXTRA CREDIT**
No extra-credit opportunities will be offered.

**GRADING**
As of today, the grade distribution will be: 90+=A, 80-89.99=B, 70-79.99=C, 60-69.9=D, < 60 =F.

F: Less than 60%

Syllabus, Course Number, Instructor Name, Term
COURSE CALENDAR

Below is a tentative schedule of the course. We might adjust it but any changes will be announced in writing.

THURSDAY, AUGUST 16
- Introduction to statistics and administrative details of course including software installation.
- Syllabus quiz is due before 11:30 PM today

TUESDAY, AUGUST 21
- How to describe data using graphs - theory

THURSDAY, AUGUST 23
- How to describe data using graphs – software and hands on work
- Quiz 1 is due before 11:30 PM today

TUESDAY, AUGUST 28
- Numeric measures of central tendency and dispersion - theory

THURSDAY, AUGUST 30
- Numeric measures of central tendency and dispersion – software and hands on work
- Quiz 2 is due before 11:30 PM today

TUESDAY, SEPTEMBER 4
- The Uniform and Normal Distributions - Theory

THURSDAY, SEPTEMBER 6
- The Normal and Uniform Distributions - software and hands on work
- Quiz 3 is due before 11:30 PM today

TUESDAY, SEPTEMBER 11
- Relationships between variables: scatterplots, correlations and simple regression - Theory

THURSDAY, SEPTEMBER 13
- Relationships between variables: scatterplots, correlations and simple regression - software and hands on work
- Quiz 4 is due before 11:30 PM today

TUESDAY, SEPTEMBER 18
- Work on report -basic data cleaning, analysis of data, writing
<table>
<thead>
<tr>
<th>Date</th>
<th>Activities</th>
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<tbody>
<tr>
<td><strong>Thursday, September 20</strong></td>
<td>Work on report - basic data cleaning, analysis of data, writing</td>
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<tr>
<td><strong>Tuesday, September 25</strong></td>
<td>Work on report - basic data cleaning, analysis of data, writing</td>
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| **Thursday, September 27** | Review before exam 1  
|                       | Report # 1 is due today before 11:30 PM                                  |
| **Tuesday, October 2**   | In class exam # 1                                                         |
| **Thursday, October 4**   | Fall break. No classes today                                             |
| **Tuesday, October 9**   | Basic Probability Theory                                                  |
| **Thursday, October 11** | Basic Probability Theory - software and hands on work                    |
|                       | Quiz 5 is due before 11:30 PM today                                      |
| **Tuesday, October 16** | Binomial and Poisson Distributions - Theory                              |
| **Thursday, October 18** | The Binomial and Poisson Distributions - software and hands on work     |
|                       | Quiz 6 is due before 11:30 PM today                                      |
| **Tuesday, October 23** | Introduction to Inference: Confidence Intervals and Hypothesis Tests about the Population Mean when the Population Standard Deviation is Known - Theory |
| **Thursday, October 25** | Hypothesis Tests and Confidence Intervals for the Population Mean when the Population Standard Deviation is Known - software and hands on work  
|                       | Quiz 7 is due before 11:30 PM today                                      |
TUESDAY, OCTOBER 30
- Introduction to Inference: Confidence Intervals and Hypothesis Tests about the
  Population Mean when the Population Standard Deviation is Unknown - Theory

THURSDAY, NOVEMBER 1
- Hypothesis Tests and Confidence Intervals for the Population Mean when the Population
  Standard Deviation is Unknown - software and hands on work
- Quiz 8 is due before 11:30 PM today

TUESDAY, NOVEMBER 6
- Hypothesis Tests and Confidence Internals for Simple regression - Theory

THURSDAY, NOVEMBER 8
- Hypothesis Tests and Confidence Internals for Simple regression - software and hands on work
- Quiz 9 is due before 11:30 PM today

TUESDAY, NOVEMBER 13
- Work on report # 2

THURSDAY, SEPTEMBER 20
- Work on visual presentation
- Report # 2 is due tonight before 11:30 PM

TUESDAY, NOVEMBER 20
- Thanksgiving Break

THURSDAY, NOVEMBER 22
- Thanksgiving Break

TUESDAY, NOVEMBER 27
- Review before exam # 2

THURSDAY, NOVEMBER 29
- Exam # 2

TUESDAY, DECEMBER 4
- Student Presentations

THURSDAY, DECEMBER 6
- Student Presentations
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.