

## **ECON 3402, E02, AND STATISTICS FOR BUSINESS I**

*SUMMER 2020, 3 CREDITS, JUNE 1, 2020 TO JUNE 25, 2020*

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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:**

Online: Monday through Thursday: 9:00 AM to 11:00 AM

**CONTACT INFORMATION:**

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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.

**DELIVERY METHODS**

This class is fully online. You will find videos, readings, tutorials and quizzes 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

## **TEXTBOOKS AND MATERIALS**

There is no required textbook for this class. Any statistics textbook will have the material we will cover. The book, "Introductory Statistics" by Openstax is a free online book that is very useful. You can access the book online or download a pdf file. You can find the book here:

<https://openstax.org/details/books/introductory-statistics?Book%20details>

## **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.

## **COURSE DEN**

This class is fully online. You will find videos, readings, tutorials and quizzes in CourseDen (D2L). You must complete all assignments within the datelines listed.

## **ASSIGNMENTS**

We will have nine (9) homework assignments and one cumulative exam.

Homework and exam dates can be found on CourseDen

## **EXTRA CREDIT**

No extra-credit opportunities will be offered.

## **GRADING**

The cumulative exam is worth 30%, while the homework assignments, which are all equally valued, add up to 70%.

Letter grades will be assigned as follows:

- A: 90% or higher
- B: 80% to 89.9999%
- C: 70% to 79.9999%
- D: 60% to 69.9999%
- F: Less than 60%

Note: an 89.9% is a B!

## **COURSE CALENDAR (DUE DATES)**

Since this is an online course, you can work at your own pace but you must complete all assignments by the designated deadlines. These are as follows:

### **TUESDAY, JUNE 2**

- Describing Distributions with Graphs
- Homework 1 is due before 11:30 PM today

### **THURSDAY, JUNE 4**

- Describing Distributions with Numbers
- Homework 2 is due before 11:30 PM today

**MONDAY, JUNE 8**

- The Normal and Uniform Distributions
- Homework 3 is due before 11:30 PM today

**WEDNESDAY, JUNE 10**

- Relationships between Variables, Correlations, Simple Regression Analysis
- Homework 4 is due before 11:30 PM today

**FRIDAY, JUNE 12**

- Probability Distributions, Basic Probability Rules, Discrete Distributions, Continuous Distributions.
- Homework 5 is due before 11:30 PM today

**MONDAY, JUNE 15**

- The Binomial and Poisson Distributions
- Homework 6 is due before 11:30 PM today

**WEDNESDAY, JUNE 17**

- Hypothesis Tests and Confidence Intervals for the Population Mean when the Population Standard Deviation is Known.
- Homework 7 is due before 11:30 PM today

**FRIDAY, JUNE 19**

- Hypothesis Tests and Confidence Intervals for the Population Mean when the Population Standard Deviation is Unknown.
- Homework 8 is due before 11:30 PM today

**TUESDAY, JUNE 23**

- Hypothesis Tests and Confidence Internals for Simple regression.
- Homework 9 is due before 11:30 PM today

**THURSDAY, JUNE 25**

- Last day to take the final exam

**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.