

**University of Mississippi**  
**Fall 2020, Remote 6**  
**Econ 302 and Bus 302: Economics Statistics II**

**Meeting Days/Times:** Tuesday and Thursday 9:30-10:45 am, via Zoom

**Instructor:** Hyerim Park

**Email:** [hpark9@olemiss.edu](mailto:hpark9@olemiss.edu)

**Office Hours:** Tuesday and Thursday 10:45 am-11:30 am (or by appointment)

**Course Information and Objectives:**

We will first study normal distribution, t distribution, and hypothesis tests about one population mean. Next, we will examine the relationship between two variables. Finally, we will study simple regressions and multiple regressions.

The main objective of this course is to help students develop the ability to do hypothesis test, and apply regression analysis to real-world problems. Upon successful completion of the course you will,

- Understand the key concepts underlying regression analysis
- Have experience modeling data, and making estimation and prediction from the models
- Be able to conduct hypothesis tests;
- Be able to interpret models and predictions reported by others
- Have experience using Excel to perform regression analysis

**Text:** Sharpe, De Veaux, and Velleman; Statistics For Business and Economics, 4e, Pearson, 2018. (ISBN: 9780134783031)

**Announcements**

Announcements for assignments, quizzes, exams, and attendance will be made through e-mails and/or Blackboard. Please make sure that you are responsible for reading these emails and checking Blackboard announcements on a regular basis.

**Grading Criteria**

Your final grade for the course will be determined using the following formula:

Quizzes	20%
Exam 1	25%
Exam 2	25%
Final Exam	30%
Attendance	extra credit
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Total	100%

Letter grades will be assigned based on the following percentage points:

- A 90% and above
- B 80% to < 90%
- C 70% to < 80%
- D 60% to < 70%
- F Below 60%

### **Homework**

I will use the [mystatlab.com](http://mystatlab.com) homework, which must be purchased from either the website or a bookstore. Though homework will not count as a grade, quizzes and exams will mostly be covered from these homework assignments. *Students should register using their go.olemiss.edu address.* The course code is:

**park41117**

### **Quizzes**

There will *weekly* quizzes during the class. I will notify you at least one week in advance. One minimum score of the quizzes will be dropped.

### **Exams**

The first two exams each count 25% of your final grade. The exams will have multiple choice questions. The comprehensive final exam counts 30% of your final grade. Students can take a make-up exam if you notify to the instructor at least one week in advance. Otherwise, if you must miss a midterm exam for a valid reason such as family and medical emergency, you must obtain permission from the instructor before the exam. In this case, the weight of the missed exam will be distributed over the other two exams. An exam missed without a prior approval from the instructor will be given a score of zero. The final exam is scheduled by the University. The final exam cannot be missed for any reason.

### **Attendance**

Attendance will be taken as extra credit. The percentage of *lectures* attended multiplied by *10pts* will be added to your final average at the end of the semester. To gain the attendance extra credit, you ***must*** remain **for the duration of the class.**

Attendance is the student's responsibility, and students will be responsible for all material and information covered in each class.

### **Academic Dishonesty**

Any student submitting work that is not their own, any student allowing another to copy their work, or any student cheating on an examination will receive a failing grade for the course.

## **Disabilities**

Students with disabilities who may need disability-related classroom or exam accommodations for this course are encouraged to set up an appointment to meet with me as soon as possible to ensure that accommodations are provided in a timely manner.

### **Course Outline: (Exam Dates are tentative.)**

#### ***Exam I – Thursday, September 17<sup>th</sup>***

Ch. 6.1-6.3: Expected value and standard deviation of a random variable

Ch. 7.1-7.2: The Normal distribution

Ch. 10: Sampling distributions and confidence intervals for proportions

Ch. 11: Confidence Intervals for Means

Ch. 12: Testing Hypothesis

#### ***Exam II – Tuesday, October 20<sup>th</sup>***

Ch. 13: More about tests and intervals

Ch. 4: Correlation and linear regression

Ch. 16: Inference for regression

#### ***Final Exam – Monday, November 23<sup>rd</sup> 8:00 am***

Ch. 18: Multiple regression

Ch. 19: Building multiple regression models