Instructor: Dr. Kaushik Mukhopadhaya  
Office: Rich 311A  Phone: 404-712-8688  E-mail: kmukhop@emory.edu

Class Meeting: Every Monday and Wednesday, 1:00p.m.-1:50p.m., Rich 104  
Every Friday 12:55a.m.-1:55p.m., Rich 301

Office Hours: Every Monday, Wednesday, and Friday 9:30a.m.-10:30a.m.,  
or by appointment

General Expectation

The course covers basic statistical techniques, emphasizing regression analysis, for analyzing economics and business data. You will be expected to: (1) recognize and define statistical concepts as used in economics, (2) apply those concepts to situations, cases, and problems requiring a decision based on quantitative information, and (3) carry out data management and calculations in the spreadsheet Microsoft Excel. Students will be expected to work on computers in and out of the scheduled class periods, including exams. Economics 220 is a prerequisite for this course.

Required Materials

- An USB storage device.


Class Participation, Exams, and Grading Policy

Participation in each class session is essential for you to obtain the full benefit from the course. The class meetings will rely on individual work on computers, discussion, group work, and other activities that require direct physical presence in the classroom. For each class that you miss 5% of your participation grade will be deducted. You may miss three classes over the semester without penalty. You are not allowed to surf the internet or access your e-mail account during the class. 5% of your participation grade will be deducted for such infraction. Furthermore, tardiness will not be tolerated because it disrupts other students from learning.

Final course grades are based on a weighted average of numerical scores on in-class participation, homework assignments, a project (due December 7), and a comprehensive final exam. The weights are respectively 25, 20, 15 and 40 percent. There will be homework assignments, which will use the spreadsheet Microsoft Excel. Assignments must be handed in on time, so solutions can be discussed in class and distributed in a timely manner. You may work in groups of two or independently to fulfill the project requirement of this course. Details will be posted via University’s Blackboard site. There will be no make-ups on homework or other assignments, and you must take the final. Grades will be assigned on the basis of relative performance, but anyone earning over 90, 80 or 60 percent of the points will be assured respectively of an A, B or C range letter grade.
Miscellaneous

“The honor code is in effect throughout the semester. By taking this course, you affirm that it is a violation of the code to cheat on exams, to plagiarize, to deviate from the teacher’s instructions about collaboration on work that is submitted for grades, to give false information to a faculty member, and to undertake any other form of academic misconduct. You agree that the teacher is entitled to move you to another seat during examinations, without explanation. You also affirm that if you witness others violating the code you have a duty to report them to the honor council.”

If you require accommodations for a disability, religious belief, scheduling conflict, or other impairment that might affect your successful completion of this course, you must personally present the request in written (signed and dated) form to me within the first four meetings. Requests for special accommodations made after that will not be considered.

As a final note, I want to wish all of you good luck in this course and I encourage you to see me if you are having difficulty with the course material or need to discuss something with me. You can stop by my office during office hours, or schedule an appointment. I can also be reached through e-mail or voice mail. Please do not hesitate to see me if you have any questions or concerns.

Tentative Course Outline

Keep in mind that although I have given you a course outline, I reserve the right to make what I consider reasonable adjustments to it.

1. The Big Picture and Introduction to Excel (intended for the new user) - BH Ch 1 and Lecture Notes
2. Random Variables, Distributions and Expectations - Lecture Notes
3. (Parametric) Sample Statistics and the Law of Large Numbers - Lecture Notes
4. Non-parametric Sample Statistics - Lecture Notes
5. Box-plots and Histograms - Lecture Notes
6. The Normal Distribution and the Central Limit Theorem - Lecture Notes
7. Hypothesis Testing and Confidence Intervals - Lecture Notes
8. The F-test of Equal Variances - Lecture Notes
9. Two Sample t-tests - Lecture Notes
10. Scatterplots, Covariance and Correlation - Lecture Notes
11. The Simple Linear Regression Model - BH Ch 2 and Lecture Notes from HGL
12. Interval Estimation and Hypothesis Testing - BH Ch 3 and Lecture Notes from HGL
13. Prediction, Goodness-of-fit and Modeling Issues - BH Ch 4 and Lecture Notes from HGL
14. Multiple Linear Regression - BH Ch 5 and Lecture Notes from HGL
15. Further Inference in the Multiple Regression Model - BH Ch 6 and Lecture Notes from HGL

Final Exam: Thursday, 8:00a.m. - 10:30a.m., December 10, 2015