Email is the best way to get in touch with me!

Instructor: Chendi Jiang Email: <u>chendij@g.clemson.edu</u> Office Phone: 656-2617 **Office:** Martin M-303 **Office Hours:** TTh 8:30am – 9:30am & by appointment

Email:

You are free to email me anytime. Emails will generally be answered within 24 hours. Know that any email sent to me after 5pm is NOT guaranteed to be answered before the next business day.

Course Description:

Introductory probability and statistics for business students, particularly those who will take MGT 310. Topics include descriptive statistics, probability, expectations, binomial, normal, sampling distributions, one sample estimation and testing.

Perquisites:

MTHSC 106 or 207 or 210.

Learning Outcomes:

Students should be able to...

- 1. Identify and distinguish between types of variables, and know which types of variables are required for statistical techniques
- 2. Demonstrate an understanding of measures of central tendency, spread, and relative standing and how the different measures relate to each other in various distribution patterns
- 3. Demonstrate proficiency in application of rules of probability, and extend those principles to discrete and continuous probability distributions
- 4. Identify a set of data as approximately normally distributed
- 5. Explain and apply the concept of sampling distributions and their role in developing confidence intervals and use in hypothesis testing, correctly utilizing the "t" or "z" distribution
- 6. Identify the correct statistical test to be used for hypothesis testing on one sample scenarios for mean, proportion, and standard deviation
- 7. Clearly interpret the results of statistical analysis in context of the original research question
- 8. Correctly and appropriately use correlation and linear regression techniques, including inference on the models

Required Textbook:

Statistics for Business and Economics, McClave Benson, and Sincich, 11th edition - required

Technology:

MyStatLab – Pearson Online Homework - required DDXL – Excel add-in (comes with book and/or MyStatLab) - required

Websites:

https://mthsc.clemson.edu/ug/MthSc309/ -- General MthSc 309 site which includes this syllabus, a daily schedule, unit instructional objectives, announcements, and other useful information.

http://www.registrar.clemson.edu/publicat/catalog/2012/acadreg.pdf -- Detailed information about Clemson University undergraduate class regulations including academic integrity, attendance policy, mid-term grades, final examinations, and posting of grades.

<u>http://bb.clemson.edu</u> – Follow links to our section of MTHS 3090 in Blackboard. You are responsible for checking this website and your university email account (<u>userid@clemson.edu</u>) on a regular basis for announcements and class materials. This course website houses all course materials: the course syllabus, course schedule, announcements, links to daily activities and keys, worksheets and keys, practice tests and keys, and student grades. It also contains links to MyStatLab (the textbook automated homework package)

Academic Integrity:

Students are expected to adhere to the following official Clemson academic integrity statement. As members of the Clemson University community, we have inherited Thomas Green Clemson's vision of this institution as a "high seminary of learning." Fundamental to this vision is a mutual commitment to truthfulness, honor, and responsibility, without which we cannot earn the trust and respect of others. Furthermore, we recognize that academic dishonesty detracts from the value of a Clemson degree. Therefore, we shall not tolerate lying, cheating, or stealing in any form.

Grading:

60% - 3 Tests (20% per exam) 20% - Final Exam 20% - Homework – [Excel/Worksheets (10%) / Daily Activities (5%) / MyStatLab (5%)]

To earn a passing grade for the course, a student must have:

- (a) A final exam score of 60 or higher, or
- (b) A weighted test and final exam average of 60 or higher where the weighted average is computed as

$$WTAVG = \frac{0.20(T1 + T2 + T3 + FE - \min(T1, T2, T3, FE)) + 0.20FE}{.80}$$

Where T1, T2, T3, and FE are score on Test 1-3 and the Final Exam

Note: This formula has the effect of replacing the lowest test score with the final exam score if this benefits the student.

If neither of the conditions (a) and (b) above are met, the final course grade is F and following computation of course average is irrelevant.

If either of the conditions (a) and (b) above are met, the final numerical average (CRSAVG) is computed as

CRSAVG = 0.10(Excel) + 0.05(MML) + 0.05(Daily) + 0.20(T1 + T2 + T3 + FE - min(T1, T2, T3, FE)) + 0.20FE

** Note: Based on these calculations meeting either condition (a) or (b) does not necessarily mean a passing grade in the course.

Final grades will be recorded as follows:

90 - 100	Α
80 - 89	В
70 - 79	С
60 - 69	D
Below 60	F

Unit Tests:

All tests must be taken on the dates given in the Course Schedule. For special circumstances, I am willing to give students the opportunity to take an exam EARLY. This must be worked out with instructor on a case-by-case basis and instructor must be noticed at least 48 hours in advance. However, there will be NO make-up tests. You

will be given 75 minutes for each test, tables and formula sheets will be provided. The unit tests and final will be composed of both multiple choice and free response questions. If you miss a test your final exam will be used as your exam score (for only one exam). Students are required to take unit exams and final with their section.

Student may use calculators on the unit tests and the final. Students will not be permitted to use laptop computers on the unit Tests and the Final Exam. The use of a textbook and/or notes is prohibited on all MTHSC 309 unit tests and Final Exam. Cell phones will not be permitted in class on testing day.

Students will need their old CUID number for use on scantrons for unit tests and final exam.

Final Exam:

The Final Exam is comprehensive. The Final Exam score may replace the lowest unit test score, if it helps. (Note: if your Final Exam replaces your lowest test grade the final will then count for 40% of your total grade)

Attendance:

You are expected to be regular and punctual in your class attendance. If you must miss class <u>YOU</u> are responsible for the notes, assignments, and announcements you missed. Students must provide your instructor with proper documentation for university sanctioned absences. If the instructor does not arrive in the classroom within 15 minutes after the scheduled start time, class is dismissed for the day.

Homework Assignments: Homework Assignments consist of Excel/Worksheets, MyStatLab Assignments, and Daily Activities. More detail on these assignments is below:

Excel/Worksheets:

There will be several worksheets to be done throughout the course. Worksheets will emphasize open ended questions and questions pertaining to the use of Excel and DDXL for analysis.

MyStatLab-:

Each student will work homework online through the web portal, MyStatLab. MyStatLab installation help is available. See posted instruction on BB for installing MyStatLab.

MyStatLab contains a calendar which will show you when each homework assignment is due. MyStatLab also contains an online version of your text, instructional videos, study plan help, as well as practice tests for each chapter. Take the time to learn to use the system, paying attention to the amount of study material which is available for you. When working homework, be sure to follow instructions exactly for entering answers. Homework is to be done in preparation and review for the next class.

Daily Activities:

Daily Activities may include in-class activities, quizzes, additional homework problems, projects, reading quizzes, participation grade, or additional worksheets.

Late Work:

I <u>WILL NOT</u> accept late homework. All assignments (MyStatLab, quizzes, worksheets) are due by classtime on the due date. You may turn in work early but graded work may not be available before due date.

Special Accommodations: If you have a letter stating specific testing accommodations to which you are entitled, please email a copy to me as soon as possible so that we can make arrangements. See Student Disability Services – Student Guide: <u>http://www.clemson.edu/sds/student_guide.html</u>

Course Coordinator

Ellen Breazel, O-211 Martin Hall, 656-1837, ehepfer@clemson.edu

You have a few options for the book:

- 1. You can purchase the full edition from Amazon, Half.com, Chegg etc. But you will also need to purchase MyStatLab as well.
- 2. You can purchase the "Clemson custom" edition from the bookstore (the difference is it is spiral bound (still able to sell back) and missing few chapters that we don't cover to decrease cost). This version IF BOUGHT NEW comes with a MyStatLab access code. (\$174)
- 3. You can purchase MyStatLab on its own (price around \$88) with this you will get the ebook, and all resources needed.

It is completely up to you if you want a paper copy of the text. I am fine with you only having the ebook version via MyStatLab. But you MUST have MyStatLab

- DDXL comes with the book and with MyStatLab

Note: If you are planning on taking MGT 310 in the future you will use this same book AND MyStatLab will work for both semesters as well. (In other words – any cost for text is for two semesters)