Instructor: Dr. Mohsen Maesumi  
Office: L206 Lucas  
Contact: 409-880-8766, maesumi@lamar.edu  
Office Hours: M-F 11:15-11:30 in class, M-R 1:30-2:30 in L206  
Other times available by appointment.  

Required Text: Collaborative Statistics, second edition, by Barbara Illowsky and Susan Dean  
(The e-book is free and available on course site.)  
Prerequisites: Permission of advisor.  
Students should be comfortable with algebra, arithmetic, and scientific calculators.  

Required Access Code  
WebAssign homework access code is required  
Register with class key lamar 3849 1625  

Website http://www.math.lamar.edu/faculty/maesumi/syllabi.html  
Short To-Do List  
Sign on WebAssign,  
Sign Class Regulation Sheet,  
Prepare binder+100 pages+4 examination Blue Book notebooks (small size),  
Give a copy of your resume (both by email and as a hard copy).  
Correct preferred Banner email address (if you get a note from me about it.)  

Class Regulations:  
During the last few years my courses have been redesigned to have an “open access” policy. For example, and most importantly, you have access to your notebook on tests. Also internet-based instruction is used extensively to help students excel in their courses. As a result the grades have gone up from their historical average of 55 to well over 75. However a small group of students have taken unfair advantage of the course openness and engaged in various violations of academic honesty standards. For the grading system to be fair to all students it is essential that certain minimal and common-sense standards to be observed by all students.  
To enforce these standards I will employ a “penalty schedule” for various infractions. Students are to read the class information here and online, and then sign a statement by the second class meeting stating that they have read, understood, and agreed with class rules and the penalty schedule. As these will be strictly enforced you should take this seriously and if there are issues send an email and come to see me. Please note that the first rule states: “Saying ‘I did not know’ will double the penalty.”  

Catalog Description: Non-calculus based introduction to statistics, statistical measures of data, statistical description of data, elementary probability, random variables, binomial and normal distributions, estimation, testing hypotheses. Prerequisites: 350 Math TSI or TSI Exempt/Complete Prepares for: MATH 3370, Offered: Fall, Spring, Summer
**Learning Outcomes:** Upon successful completion of this course, students will be able to:

1. Demonstrate skills necessary for analyzing and summarizing data;
2. Gain a working knowledge of descriptive statistical methods and their applications;
3. Define probability and probability distributions, particularly the normal distribution;
4. Distinguish between descriptive and inferential statistics and apply the concept of hypothesis testing;
5. Define statistics, discuss data types, contrast qualitative and quantitative data, and examine common applications of data analytical methods using real-world examples and data;
6. Develop procedures for listing and grouping quantitative data, both in tabular and graphical format;
7. Present basic descriptive statistical measures of location (mean, median, mode) and variability (range, variance, standard deviation);
8. Introduce the concept of probability and probability distributions, including the binomial and normal distributions;
9. Illustrate the concept of random samples and sampling distributions (of the mean) as a transition from descriptive to inferential statistics;
10. Distinguish between a sample and a population;
11. Calculate point and (confidence) interval estimates for a population mean using a large sample.
12. Present methods for hypothesis testing of a population mean using a large sample;
13. Present methods for hypothesis testing of differences between two population means.
14. Present methods for analyzing data from normal populations;
15. Describe (via calculation and graphs) statistical relationships between two variables.

**Core Curriculum Outcomes:** Upon completion of this course, the student will demonstrate his or her abilities to think critically, communicate quantitative information, and apply mathematical concepts:

1. **Critical Thinking:** Develop a logical, consistent plan to solve a problem, recognize consequences of the solution, and articulate a reason for choosing the solution method.
2. **Communication Skills:** Use and present quantitative information in connection with an argument or problem solution and explicate it in an effective format.
3. **Empirical and Quantitative:** Construct and present a detailed problem statement with evidence of relevant contextual factors and possible approaches for solving the problem, then implement a solution and review the results.

**Lectures/Discussions:** We will have traditional lectures augmented by online resources as found in [http://www.math.lamar.edu/faculty/maesumi/syllabi.html](http://www.math.lamar.edu/faculty/maesumi/syllabi.html) Links to video lectures for this course by the text author are available at above URL. The course topics, sections, and homework list will be posted on WebAssign.

**Homework:** This counts for 50% of your grade. It is to be done on the WebAssign software. Student should consider a target deadline for themselves that is 24 hours earlier than the software deadline. Time extension will not be given for Internet/electrical/financial problems. There is a penalty for late submission (20% per week or fraction thereof, hence homework from beginning of semester delayed to end of semester will lose all of its value). There is an automatic extension button if you are late less than a week.

Course evaluation, conducted during the last few days before final, will be the last “homework” and is required. Submitting the resume is the first homework.
Mathematical Writing Rules:
Students are to familiarize themselves with how to type-set formulas on WebAssign. There are links to some syntax hints and quick access guide on the website. Some of the basic points of hand-writing mathematics are posted on a separate sheet available on course site.

Exams and Grading Policies:
There will be three tests each counting for 1/6 of the total grade for the course.
Approximate dates (subject to change): Monday June 19, Friday June 30, Monday July 10.
Grading scale: A>90>B>80>C>70>D>60>F.
In case you want your exam to be reviewed and re-graded you need to notify me as soon as possible.
Four weeks after the final exam your course grade data may be discarded, unless you make a written request in person during the semester.
All issues that may influence your grade should be documented in an email from you to me and acknowledged in an email from me to you. At the end of final test, and before final grades are given, send a summary email.
Border line cases: Or, When does 89 become an A?
Please make sure you attend the classes and have done the following early:
Getting on WebAssign, Sending your resume, Doing the course evaluation.

Test Code:
During tests you are to look at your own papers/screen and protect your papers from others.
Your face should be visible to the instructor.
No obstruction by sunglasses, hair, hand, caps, monitor, etc.
Bring Lamar ID to all tests.
Use of printed sheets, cell phones, or loose paper is not allowed.
Use of unauthorized websites and communication with others, is not acceptable during tests.
Do not give your WebAssign password to any other person for any reason.
Unauthorized logins to WebAssign may result in a grade of F for the course.
See the penalty schedule for cost of infractions.
University academic integrity rules apply (see below).

Privacy Issues:
There may be a seating assignment. Every-other seating is preferred.
Your activity on computer will be monitored by a program.
Your papers, calculators, phone, and any item on table during tests may be inspected by the instructor.
You may be asked to change your seat during a test.
If you violate the Test Code or class decorum rules you may get a public reminder in class.

Calculator: You are allowed to have a basic scientific/statistics calculator on tests. Make sure calculator has n!, x̄, sx, and other statistical functions. These cost about $20 new.
Cell phone calculators or sharing a calculator is not allowed on tests.
If you do not have a proper calculator you will take your test without one. See penalty schedule for the cost of infractions.

Curving the Grades: The grading style already has a built-in curve by allocating 50% to homework and allowing students to use their notebooks. However students usually want to know how to improve their grades further. Here are the typical questions and answers, as well as related policies.
Q. How does doing homework improve my grade?
A. Tests are open notebook and mostly based on homework problems you have already done.
You are allowed to have one binder of handwritten notes (lecture and homework) on the tests. (Loose papers or printed papers are not allowed.)

Q. How does attendance improve my test grade?
A. Homework questions are similar to the problems in the text, and these are what we will practice in class. Exam questions are very similar to problems done in class so attendance becomes very important.

Q. How do I improve my exam scores?
A. Try practice tests (under time constraints) before exams. The more of these practice tests you do the higher your grade.

For your notebook to be effective it needs to be searchable with page numbers, index, complete statement of problems and solutions, definitions, methods, and summaries. (Without having done the homework the notebook will not be of much help.)

Having access to your homework notebook is a major privilege, not a right; so please do not abuse it as it may be revoked.

**Items Allowed on Tests:**
You may have a single binder of entirely hand-written class notes.
You may have solutions for homework problems, provided that the entire problem is recorded.
You may have a table of content in your binder, with page numbers, and an index of key phrases.
You may have hand-written formula sheets in your binder.
For including anything else on your notebook ask me before assuming.
You may have a basic scientific calculator (cost: about $20 new).

See penalty schedule for the cost of infractions.

**Course Evaluations:** This is the final homework, and an important and required component for the course. You will receive an email reminder through your LU account. Evaluation window is open only for a few days and closes before finals start. Once you get the reminder go to your “MyLamar/Course Evals” link to complete. To prove that you have done the evaluations and get the bonus points you need to print the “**Acknowledgement Page**” that comes up once you are done with all of your evaluations (this page lists your courses and indicates whether you have completed the evaluation for them). Write your name and your course name on it. Give the sheet to me with the final booklet.

Make sure you are on a working printer before you start. The acknowledgement page is usually only available immediately after you are done with evaluations. You might get a copy sent to your email, especially if you evaluate all of your courses.

If you have problems: Assessment Office 880-1843.

**Student Contact Info:** Students are required to have an active email registered with University which shows up on the “class email list”. A trial email will be sent and announced in class. If you do not receive it, it is your responsibility to contact the responsible university office to correct the issue.
A small percentage of students do have problems with their emails. It is typically due to not selecting a “preferred email” during registration. Other issues are misspelling your email, putting parent email, or using email from a cancelled service.
If you ignore this issue, there will be no compensating recourse later.
Please do not change your name or email mid semester.

**Instructor Contact Info:** Your emails to me must be signed by putting your full name (as on the class roll) and the course name. You may be contacted with some last minute course information by email.
You can contact me via maesumi@lamar.edu or maesumi@gmail.com. If you leave a phone message
for me (8766) please duplicate it by an email. Please do not use reply button if your email is on a new topic.

**Absence:** Class roll may be taken. Do not sign for others. Unexcused absence beyond 3 hours may reduce your grade by 1 point per missed class. Make up for tests requires notification on the same day and submission of verifiable written proof of emergency within one day. An individual decision will be made in each case. The final exam cannot be postponed. See penalty schedule for the results of fake emergency excuse. The grade for an excused missed test may be constructed through adjusted average of other tests. Have a “buddy system” to get informed of the recent news and notes if you have to miss a class.

**No:** Tardiness, food of any type, drinks, gum, ice, chips, candy, noise, music, headsets, e-activity as in surfing, scrolling, texting in class. Please turn off and put your phones and music devices away. Same rules apply when you come for office visits. See penalty schedule for the cost of infractions.

**Teams and Half-time Breaks:** We will experiment with a 30-5-25-5-25 timing where each 5 minute period will be a break for asking questions or just walking around. Students will be divided in teams for joint in-class work. You are encouraged to bring a laptop with you to class.

**WebAssign Errors:** These do occur but are very rare. Typically the student has made a typo and thinks it is an error in WebAssign. Please read the syntax hints sheet that is posted online. Usually it is the issue of lower case vs upper case, Greek (alpha) vs English (a), 1(one) vs l (ell), 0 vs o, bold font F vs ordinary font f, [ ] vs ( ), etc. Keep a record of typical errors to remind yourself. If you think WebAssign is making a mistake let me know and I will contact the company and correct your score.

**Extension Time on Tests:** Students typically ask for extension time on tests. This requires unanimous approval. There will be poll where you indicate if you can come early or leave late by 0, 5, 10, 15 etc minutes. We will go by what is feasible and approved by all. If you are not in class during the vote and do not contact me within 6 hours of class time then you accept the result of the vote cast by others.

**Student Resume:** Students are required to make a resume for themselves applicable to this course. Items to include: a basic ID photo, detail of math courses taken, major, minor, employment, long-term career plan, responsibilities, and any specific issue I need to know about before we start. Give me one copy by the end of first week and send the same by email.

**Corrections:** While I have made a sincere effort to ensure that this syllabus is correct, changes may be required. I will announce any substantive changes during a regularly scheduled class or by email. If you have suggestions or concerns feel free to bring it to my attention.
Important University-Wide Information for Students

Lamar University expressly prohibits intimidation and harassment of students, faculty, staff, or applicants. See http://students.lamar.edu/academic-support/code-of-conduct.html

**Drop Policy:** Please make note of the three dates indicated in this drop policy. Any drop will be your responsibility; I will not drop a student from the course.

*June 14, 2017:* (Census Date-Six Drop Rule does not apply) A student may drop or withdraw without consulting with the instructor. The Six Drop Rule does not apply to a drop before 5:00 PM.

*June 22, 2017:* (Six Drop Rule applies) A student may drop or withdraw from the course without academic penalty and receive a Q, however, the Six Drop Rule applies. The student will consult with the instructor and the Records Office to initiate a drop.

*June 27, 2017:* (Six Drop Rule applies) Last day to drop or withdraw with academic penalty; the student must be passing the course at the time of the requested drop in order to receive a Q. The drop form, including all required signatures, must arrive in the Records Office by no later than 4:00 PM. No drop is allowed after this date except in extreme extenuating circumstances. Any “late drop” must be approved by the instructor, department chair, college dean, and provost.

**Academic Integrity:** Students are expected to maintain complete honesty and integrity in their academic experiences both in and out of the classroom. Any student found guilty of dishonesty in any phase of academic work will be subject to disciplinary action. Students are specifically warned against all forms of cheating and plagiarism. The *Lamar University Student Handbook* clearly reads: “Any student found guilty of academic dishonesty in any phase of academic work will be subjected to disciplinary action. Punishable offenses include, but are not limited to, cheating on an examination or academic work which is to be submitted, plagiarism, collusion, and the abuse of source materials.” One aspect of the *Handbook*’s definition of cheating includes “purchasing or otherwise acquiring and submitting as one’s own work any research paper or other writing assignment prepared by an individual or firm.” Plagiarism is defined as “the appropriation and the unacknowledged incorporation of another’s work or ideas into one’s own and submitted for credit.” Faculty members in the College of Arts and Sciences investigate all cases of suspected plagiarism. Any student who is found cheating in this course will receive a course grade of F. http://students.lamar.edu/student-handbook.html

**Accommodations:** Lamar University is committed to providing equitable access to learning opportunities for all students. The Disability Resource Center (DRC) is located in the Communications building room 105. Office staff collaborate with students who have disabilities to provide and/or arrange reasonable accommodations. If you have, or think you may have, a disability (e.g., mental health, attentional, learning, chronic health, sensory, or physical), please contact the DRC at 409-880-8347 or drc@lamar.edu to arrange a confidential appointment with the Director of the DRC to explore possible options regarding equitable access and reasonable accommodations. If you are registered with DRC and have a current letter requesting reasonable accommodations, we encourage you to contact your instructor early in the semester to review how the accommodations will be applied in the course. http://www.lamar.edu/disability-resource-center/
**Campus Closure:** In the event of an announced campus closure in excess of four days due to a hurricane or other disaster, students are expected to login to Lamar University's website's homepage for instructions about continuing courses remotely.  [http://lamar.edu](http://lamar.edu)

**Emergency Procedures:** Many types of emergencies can occur on campus; instructions for severe weather or violence/active shooter, fire, or chemical release can be found at: [http://www.lamar.edu/about-lu/administration/risk-management/index.html](http://www.lamar.edu/about-lu/administration/risk-management/index.html)

Following are procedures for the first two:

**Severe Weather Procedure:**
- Follow the directions of the instructor or emergency personnel.
- Seek shelter in an interior room or hallway on the lowest floor, putting as many walls as possible between you and the outside.
- If you are in a multi-story building, and you cannot get to the lowest floor, pick a hallway in the center of the building.
- Stay in the center of the room, away from exterior walls, windows, and doors.

**Violence/Active Shooter Procedure:**
- **CALL** 8311 from a campus phone (880-8311 from a cell phone). Note: Calling 9-1-1 from either a campus phone or cell phone will contact Beaumont City Police Dispatch rather than University Police.
- **AVOID**- If possible, self-evacuate to a safe area outside the building. Follow directions of police officers.
- **DENY**- Barricade the door with desks, chairs, bookcases or any other items. Move to a place inside the room where you are not visible. Turn off the lights and remain quiet. Remain there until told by police it is safe.
- **DEFEND**- Use chairs, desks, cell phones or whatever is immediately available to distract and/or defend yourself and others from attack.