Math 200

Statistics

Fall 2016        M–Th 9:10 – 10 (Section AB)

Instructor:    Jon Freedman
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\[ \alpha = 0.025 \]
\[ 95\% \]
\[ \mu \]

\( \frac{\alpha}{2} = 0.025 \)

Office Hours: M – Th 1:45 – 2:45; TuTh 10 – 11 and most times by arrangement – ask.

Prerequisite:
Math 120 or Math 190 with C or better, or appropriate score on placement test.

Text:
Illowsky and Dean.  *Introductory Statistics*. First Edition
Openstax, Rice University, Houston, TX.
https://openstaxcollege.org/textbooks/introductory-statistics

\( \star \star \) Course management software: WebAssign course ID: skyline 1509 8427

Materials:
A TI–84 (or TI–83+) graphing calculator is required for this course. Other graphing calculators may perform the same functions and may be acceptable but see me about this. You may NOT use your cell phone or a computer in this class.

Important Dates:
Last day to Add this course: Friday, August 28
Last day to Drop this course without a W: Monday, September 7
Last day to Withdraw from class: Monday, November 16, April 30
Holidays: 9/7; 11/9; 11/25 – 29
Last regular class: Thursday, December 10
Final Exam (comprehensive): Wednesday, Dec. 16, 8:10 - 10:40 am

Assignments:
Assignments will be given in the form of class handouts, book work, online assignments through WebAssign and projects.

Grading:
Assignments (homework, classwork, quizzes) (35%)
Time By Arrangement (5% – WA pre-reading assignments with online discussion)
3 – 5 Tests (40%)
Final (20%)
I will drop your worst test score (Not the final). There will be no makeup tests. If you are late for a test you will have only the remaining time to complete the test (so don’t be late). If you know you are going to miss a test date, contact me at least three days in advance and we can arrange an alternate test to be taken in advance of the class test date.
I will drop your worst quiz. There will be no makeup quizzes.
I will excuse two homework scores (or drop your lowest scores if you submit all of them). I will excuse up to four late assignments provided you (1) meet with me to go over them and (2) submit them before any test covering their content.

Grading Scale:

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Attendance: You will not be graded directly on your attendance. However, your involvement in class and your participation in the process of discovering concepts will be fundamental in your understanding of statistics. Tests and written work will be based largely on material discussed and practiced during class. Please note that no students with more than 10 absences have passed this class.

Withdrawal Policy: If you decide to drop this class you must do so formally either by using WebSMART or by filing the correct form with the registrar’s office. If you miss more than 10 classes and still desire to remain in the class you must meet with me and convince me that you can learn the material necessary to pass the class.

Course Contents: We will study the collection, organization and analysis of data. We will develop mathematical models of the data and use them to make inferences. We will begin the process of understanding probability theory.

Big Ideas (SLOs):

1. THINK STATISTICALLY
   Students will be able to collect, organize, analyze, and interpret data using various methods including statistical software and graphing calculators.
   - Forming a question.
   - Collecting relevant data.
   - Organizing the data.
   - Analyzing the data.
   - Interpreting and communicating the results (is there cause and effect; does the result generalize?)

2. Organize, analyze, and utilize appropriate methods to draw conclusions based on sample data by constructing and/or evaluating tables, graphs, and numerical measures of characteristics of data.

3. Identify, evaluate, interpret and describe data distributions through the study of sampling distributions and probability theory.

4. Collect data, interpret, compose and defend conjectures, and communicate the results of random data using statistical analyses such as interval and point estimates, hypothesis tests, and regression analysis.

Tutoring: The Learning Center (TLC) is an outstanding resource for semi-free tutoring in all of your classes. You should visit TLC at the slightest sign of confusion or just as a place to sit and work in a supportive environment. The Learning Center staff is well trained and dedicated solely to your success, so don’t waste this resource!

A tutorial CD is available through the publishers of this book. It provides assistance through worked and guided examples. Also, a DVD for calculator assistance is available. If you have any interest in Mathematics, Engineering, or Science you may wish to join MESA and make use of their tutoring and counseling services.

Assistance: In coordination with the DRC office, reasonable accommodations will be provided for qualified students with disabilities. If you have an accommodation letter, please meet with me during my office hours to discuss your needs. For more information, please contact DRC (in building 5) at 738-4280.

Academic Dishonesty: I strongly encourage you to form study groups and to work together to understand the material covered in this class. Explaining a concept is a valuable way for you and the listener to develop your insight and your skills. Simply copying work, whether it is from an assignment or a test, is of no value to you academically. Consequently, if I find that you are submitting any part of another’s work as your own, you will not receive credit for this course. The same holds true for any other kind of academic dishonesty. There is no situation that could arise in this class that would justify risking expulsion. If you are having any difficulty, PLEASE see me about it so that we can work together in resolving the issue.