Math 583 – Topics in Statistics

Summer 2010 - Section 1, MH 480, MWR 4:30-7:20 p.m.

Instructor: Mortaza (Mori) Jamshidian, Professor.  Office: MH 180, Phone: 657-278-2398

Office Hours: MTWR 10:10-11:30 a.m., MW 4:00-4:30 p.m., or by appointment

Homepage: http://math.fullerton.edu/mori  E-mail: mori@fullerton.edu

Text: Statistics and Data Analysis by Ajit Tamhane and Dorothy Dunlop, 2000, Prentice Hall.

Calculator: You will need a scientific calculator, preferably TI 83 or higher, that statistical functions. Calculators may be used on exams and will be necessary for certain problems.

Software: We will use the software package R for data analysis and simulation. R is a language and environment for statistical computing and graphics. R provides a wide variety of statistical (linear and nonlinear modelling, classical statistical tests, time-series analysis, classification, clustering, ...) and graphical techniques, and is highly extensible.

Your e-mail address wanted: You are required to fill out the “Student Information Form” (click here) and submit it to mori@fullerton.edu no later than tomorrow, 8:00 a.m. Do not save the PDF file and attach to an e-mail. You need to use the submit button on the form and follow the instructions. If you’re unable to submit the form, send me an e-mail with all the required information on the form. Make sure to include your name and your course “Math 110” in your e-mail. Also, make sure to provide an e-mail address that you check frequently.

I will send various communiqué, and last minute announcements about our class through e-mail. I will send a “test e-mail” to everyone tomorrow. If you do not receive this test e-mail, please see me ASAP to resolve any problems there may be. Note: Any credits that you lose due to not establishing your e-mail connection with me on time will be your responsibility.

Prerequisites and Course Objectives

The prerequisite for this course is Math 338, or equivalent. This course offers a through presentation of probability and statistics topics to the level that, upon completion of the course, the students will have sufficient knowledge to teach an elementary level statistics course at the level of an AP statistics course. The topics that will be covered include: Random variables, methods of collecting data, exploratory data analysis, sampling distributions, and statistical inference including point estimation, interval estimation, and hypothesis testing. Specific topics of inference for single samples, inference for two samples, inference for proportions and count data, simple and multiple regression, and analysis of variance will be covered.
Course requirements and Grading Policy:

Homework: Homework will be assigned and selectively graded. Homework involving computer work and written reports will also be assigned.

Exams: There will be three one-hour exams, and a two-hour final exam. All the exams will be closed book and closed notes, but a page of crib-sheet will be allowed.

Percentages and Exam Dates:

<table>
<thead>
<tr>
<th>Homework</th>
<th>Exam I</th>
<th>Exam II</th>
<th>Exam III</th>
<th>Final Exam</th>
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</thead>
<tbody>
<tr>
<td>10%</td>
<td>20%</td>
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<td>20%</td>
<td>30%</td>
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<tr>
<td>Mon 7/19</td>
<td>Mon 7/26</td>
<td>Mon 8/2</td>
<td>Thr. 8/12</td>
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Letter Grades: Letter grades will be assigned based on the distribution of the overall grades for the class.

Make-up exams will be given only in extreme instances and only with advanced permission of the instructor. Any student who does not take an exam at the scheduled time without prior consent of the instructor will receive a grade of zero on that exam. If any student feels that a sudden illness is sufficiently extreme to warrant a make-up exam, the instructor must be provided with documentation prepared by an appropriate authority.

Accommodations for Students with Special Needs
On the CSUF campus, the Office of Disabled Student Services (DSS) has been delegated the authority to certify disabilities and to prescribe specific accommodations for students with documented disabilities. DSS provides support services for students with mobility limitations, learning disabilities, hearing or visual impairments, and other disabilities. Counselors are available to help students plan a CSUF experience to meet their individual needs. If you feel that you require such support services, contact the Office of Disabled Students Services, located in UH 101, at (714) 278-3117.

Academic Integrity: Students who violate university standards of academic integrity are subject to disciplinary sanctions, including failure in the course and suspension from the university. Since dishonesty in any form harms the individual, other students and the university, policies on academic integrity are strictly enforced. I expect that you will familiarize yourself with the academic integrity guidelines found in the current student handbook (see http://www.fullerton.edu/deanofstudents/judicial/policies.htm).

Examples of actions that constitute academic dishonesty include, but are not limited to:

1. Unacceptable examination behavior – communicating with fellow students, copying material from another student’s exam or allowing another student to copy from an exam, possessing or using unauthorized materials, or any behavior that defeats the intent of an exam.
2. Plagiarism – taking the work of another and offering it as one’s own without giving credit to that source, whether that material is paraphrased or copied in verbatim or near-verbatim form.
3. Unauthorized collaboration on a project, homework or other assignment.
4. Documentary falsification including forgery, altering of campus documents or records, tampering with grading procedures, fabricating lab assignments, or altering medical excuses.

Emergency Evacuation: In the event of an emergency such as earthquake or fire:
- Take all your personal belongings and leave the classroom. Use the stairways located at the east, west, or center of the building.
- Do not use the elevator. They may not be working once the alarm sounds.
- Go to the lawn area towards Nutwood Avenue. Stay with class members for further instruction.
- For additional information on exits, fire alarms and telephones, Building Evacuation Maps are located near each elevator.
- Anyone who may have difficulty evacuating the building, please see the instructor.

Important Dates:
- JULY 19 (MONDAY) IS THE LAST DAY FOR STUDENTS TO ADD YOUR COURSE WITH A PERMIT. ALL PERMITS EXPIRE JULY 19.
- JULY 19 IS THE LAST DAY FOR STUDENTS TO DROP WITHOUT A “W”.
- JULY 29 IS THE LAST DAY FOR STUDENTS TO DROP WITH A “W”.