

Mathematics 160, Section 3

Basic Statistics

Spring 2008

Overview. Statistics is the field of study involving (1) the collection, summarization, and analysis of data; and (2) the drawing of inferences about a population from the examination of a sample of the population. The goals of this course are to introduce each student to the practice of statistics and to prepare each student using statistics in future work in their own field.

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Office Hours. (These office hours are tentatively set for now.)

Monday	12-12:50
Wednesday	3-3:50
Thursday	1-1:50

Statistics Tutoring. Statistics instructors in the Mathematics Department will provide statistics tutoring in the Math East Building, Room 145. The complete schedule will be posted on the Course Web Page.

Class Meetings. The class meets each Monday, Wednesday, and Friday from 2:00 to 2:50 in PSYCH 207.

Textbooks. The Basic Practice of Statistics, 4th Edition, by David S. Moore is required and the MINITAB Manual to Accompany The Basic Practice of Statistics, 3rd Edition, by Betsy S. Greenberg is recommended, especially if you are new to windows based applications.

Calculators. Each student is required to have, and to know how to use, a graphing calculator that can do the statistical calculations correlation and linear regression. Some examination questions will require the use of such calculators. No calculator swapping will be permitted during exams. In the classroom, the Texas Instruments TI-83/84 will be used.

Class Attendance. Attendance is expected and is obviously in a students best interest. Students are responsible for all information provided in class and on the course web page. Class roll will be taken periodically, and any student who misses more than two days may be administratively dropped from the course. Any student who is excused from class for attendance at an officially authorized event

must provide a written excuse signed by the Dean of Students no later than one week after the absence. Electronic devices such as cell phones, pagers, watch alarms, etc. must be turned off during class.

Examinations. Three midterm examinations will be given during the weeks indicated in the Course Schedule, and a final examination will be given on ***** from ***** to ***** (TBA). Unless there are extenuating circumstances, a missed midterm examination or a missed final examination will result in a score of zero for that work. If a student earns a higher percentage on the final examination than on one of the midterms, then the student's lowest midterm score will be replaced by the percent scored on the final examination.

Homework/Quizzes.

Minitab. Minitab assignments will be provided by the instructor and collected on a regular basis. Solutions must be computer-generated with each exercise clearly labeled. The student's name, course number, and section number must be given at the top of the first page, and assignments consisting of multiple pages must be stapled. No credit will be given for assignments that contain only answers with no supporting work. Late assignments will not be accepted.

Course Grades. Midterm examinations will be worth 300 points, and the final examination will be worth 200 points. Homework/quizzes will be worth 100 points, Minitab assignments will be worth 100 points. At the end of the Semester, grades will be assigned based on the following scale:

Total Points	Grade
630-700	A
560-629	B
490-559	C
420-489	D
0-419	E

All electronic devices, particularly cell phones, must be turned off during all exams. Silence and vibration modes are not allowed. The University's Exam regulations for final exam week will be strictly followed, in particular those regarding students with multiple exams on a single day. Now is the time to find out if you have a problem with multiple exams on a single day at the end of the semester.

Dropping The Course. The last day to drop without a signature is Tuesday, February 12, and the last day to drop with a grade of W (if passing) is Tuesday, March 11.

Incomplete Grades. If a student fails to complete the course due to circumstances unforeseen, then he or she may qualify for a grade of I, incomplete if all of the conditions are met:

1. The student has completed all but a small portion of the required work.
2. The student has scored at least 50% on all work completed.
3. The student has a valid reason for not completing the course on time.

4. The student agrees to make up the material in a short period of time.
5. The student asks for the incomplete before grades are due - 48 hours after the final exam.

University Policies. Students are expected to be familiar with and abide by the University of Arizonas Code of Academic Integrity, Student Code of Conduct, and Official Student Email Policy. These policies will be strictly enforced, and any student found to be in violation will be appropriately sanctioned

Students with Disabilities If you anticipate issues related to the format or requirements of this course, please meet with your instructor to discuss ways to ensure your full participation in the course. If you determine that formal disability-related accomodations are necessary, it is very important that you be registered with Disability Resources (621-3268; drc.arizona.edu). You should notify your instructor of your eligiibiity for accomodations by Friday, January 19, 2007. You and your instructor can them plan how to coordinate your accomodations.

The following is a *tentative* Course Schedule. The chapters refer to The Basic Practice of Statistics, 4th Edition.

Week	Dates	Chap.	Topics	Notes
1	1/16-1/18	1	Introduction	Distributions
2	1/22-1/25	2 4	Distributions Scatterplots and Correlation	MLK Day (1/21)
3	1/28-2/1	5	Least-Squares Regression	
4	2/04-2/08	6	Two-Way Tables	Exam I
5	2/05-2/09	8-9	Producing Data	
6	2/11-2/15 2/12	10,12	Probability	Last Free Drop Day
7	2/25-2/29		Discrete Random Variables	
8	3/03-3/07	13	The Binomial Distributions	Exam II
9	3/10-3/14 3/11	3	Continuous Random Variables The Normal Distributions	Last Day to Drop with "W"
	3/17-3/21			Spring Break
10	3/24-3/28	11	Sampling Distributions	
11	3/31-4/04	14	Confidence Intervals	
12	4/07-4/11	15-16	Tests of Significance	
13	4/14-4/18	18-19	Quantitative Response Variables	Exam III
14	4/21-4/25	20-21	Categorical Response Variables	
15	4/28-5/02	23	The Chi-Square Test	
16	5/05-5/07		Review	