

Course Information for
Basic Statistics
Math 160, Section 3
Fall 2002

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 goal of this course is to introduce each student to the practice of statistics.

Contact Information: Instructor: Professor Douglas Ulmer
Office: Math 716
Phone: 621-6861
E-mail: ulmer@math.arizona.edu
Home Page: swc.math.arizona.edu/~ulmer/

Class Meetings. The class meets each Monday, Wednesday, and Friday from 2:00 to 2:50 in PAS 304.

Class Attendance. Attendance is expected and is, obviously, in a student's 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 the first day or more than two days may be administratively dropped from the course. Electronic devices such as cell phones, pagers, watch alarms, etc. must be turned off during class.

Textbooks. The required textbooks is *The Basic Practice of Statistics*, 2nd Edition, by David S. Moore.

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. (Almost any graphing calculator from TI, HP, or Casio will do. If in doubt, ask me.) Some examination questions will require the use of such calculators. In class, I will use a TI-89.

Computer Accounts. Each student is also required to have an account on the Menu/Shell computer system (u.arizona.edu) through which MINITAB, a statistical software package, may be accessed.

Separate instructions on how to set up an account can be found on the course web page. To access the account, connect to shell.u.arizona.edu using SSH - Secure Shell software. To use MINITAB, type `minitab` after the system prompt.

Each student is also required to be able to receive e-mail. This can be done through the u.arizona.edu system. As required by the University of Arizona's Official Student Email Policy, students are expected to read their email on a frequent and consistent basis.

Homework. Exercises from the textbook will be assigned and collected on a regular basis, and selected exercises from each assignment will be graded. Solutions must be neatly written with each exercise clearly labeled in the left margin. 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.

Minitab Homework. 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.

Examinations. Three midterm examinations will be given during the weeks indicated in the *Course Schedule*, and a final examination will be given on **Wednesday, December 18 2:00 pm to 4:00 pm in PAS 304**. Exams will not be given at any other time and there will be no "make-up exams." If a student misses one midterm examination AND if the absence is due to a bona fide and documented emergency, then the student will receive a replacement score based upon the corresponding part of the final examination. A second missed midterm examination, or a missed final examination, will result in a score of zero for that work. THERE WILL BE NO EXCEPTIONS TO THIS POLICY.

Office Hours. To start, office hours will be held on Wednesdays 1-2 and Thursdays from 2-4 pm, or by appointment. When the tutoring room reopens (see below), the Thursday 2-3 office hour will be held there. These times may change, so check the course home page or call to be sure.

Other Help. The mathematics department provides free tutoring for all lower level courses, on a drop in basis. This semester, tutoring will start sometime after Labor Day and will be held M-Th 10-3 and Friday 10-2 in the new "Math East" building (formerly the Stores warehouse). Details will be announced in class.

Course Grades. Midterm examinations will be worth 100 points each, and the final examination will be worth 200 points. Homework assignments will be worth 10 points each, but only the ten highest scores will be used in the computation of the course grade. Minitab assignments will be worth ten points each, but only the ten highest scores will be used in the computation of the course grade. At the end of the semester, grades will be assigned based on the scale given below.

total points	grade
630-700	A
560-629	B
490-559	C
420-489	D
0-419	E

Dropping The Course. The last day to drop without a signature is Friday, September 20, and the last day to drop with a grade of “W” (if passing) is Friday, October 18.

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.

Academic Integrity. Students are expected to be familiar with and abide by the University of Arizona’s Code of Academic Integrity and Student Code of Conduct. These codes will be strictly enforced, and any student found to be in violation will be appropriately sanctioned.

The following is a *tentative* Course Schedule. The sections refer to *The Basic Practice of Statistics*, 2nd Edition.

week	dates	sections	topics	notes
1	8/26-8/30	1.1-1.2	Distributions	
2	9/02-9/06	2.1-2.4	Relationships	Labor Day (9/2)
3	9/09-9/13	2.5	Categorical Data	Exam I
4	9/16-9/20	3.1-3.2	Producing Data	
5	9/23-9/27	4.1-4.2, 5.1, 5.3	Probability	
6	9/30-10/04		Random Variables	
7	10/07-10/11	5.2	The Binomial Distribution	Exam II
8	10/14-10/18	1.3	The Normal Distribution	
9	10/21-10/25	4.3	Sampling Distributions	
10	10/28-11/01	6.1	Estimation	
11	11/04-11/08	6.2-6.3	Tests of Significance	Exam III
12	11/11-11/14	7.1	Inference for μ	Veteran's Day (11/11)
13	11/18-11/22	7.2	Comparing Two Means	
14	11/25-11/29	8.1-8.2	Inference - Proportions	Thanksgiving Recess (11/28-11/29)
15	12/02-12/06	9.1-9.2	The Chi-Square Test	
16	12/09-12/11		Review	