

# Introduction to Statistics and Biostatistics

MATH 160 - Section 1

Fall 2008

**Important** Please check your email and my webpage regularly for announcements, homeworks, suggestions and so forth.

## What is Statistics?

Statistics is the science of collection, summarization, and analysis of data; and the drawing of inferences about a population from the examination of a sample from the population. The goals of this course are to introduce you to the practice of statistics and to prepare you to use statistics in future work in own area of interest.

## Text

*The Basic Practice of Statistics*, 4th Edition, by David S. Moore is required.

## Office Hours

Besides the regular class times, I will hold 2 office hours at my math office. The office hours are posted on the Course Web Page [MATH160.html](http://MATH160.html).

## Statistics Tutoring

Statistics instructors in the Mathematics Department will provide statistics tutoring in the Math East Building, Room 145.

## 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

You should plan to attend every class which is obviously in your best interest. You are responsible for all information provided in class, sent through email and on the course web page. **Any student who misses more than two days may be 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.

**You must come on time for class and no talking during the lecture. You must read the relevant lesson (according to the last class lecture) before you come to class. 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 **Wednesday, December 17 from 11 am to 1 pm**. Unless there are extenuating circumstances, a missed midterm examination or a missed final examination will result in a score of zero for that work. There are no make up exams.

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

Homework will be assigned for each section of the text. Instructions for the homework will be announced in class. They will usually be collected once a week and the due date will be announced in class. I will grade some randomly selected problems and your score will be based on your performance on them.

There will be frequent pop quizzes. Quizzes may be announced or unannounced and no make-up quizzes will be given.

Homework/quizzes will be worth 100 points. Towards the end of the semester, I will drop two of your lowest scoring assignments and recalculate your score.

## Minitab

Minitab assignments will be provided and collected on a regular basis. Solutions must be computer-generated with each exercise clearly labeled.

Minitab assignments will be worth 100 points.

## Assignment Format

To make grading easy for me, I ask you to follow the following instructions while writing your assignments:

- **Your name, Course number and Section number should be printed on the first page of the assignment.**
- **Multiple pages should be stapled together.** Do not use paper clips or paper folding.
- Answers for each problem should be neatly written, with **all intermediate steps included and the problem number clearly marked.** Written explanations should be included whenever appropriate. Include units on answers. Graphs should be labeled, with the window clearly marked. You need to show all workings to earn full credit. Note that **no credit will be given for assignments that contain only answers with no supporting work.** You will **not be given credit for problems that are not legible.**
- **Late assignment will not be accepted.** Should you have known family or other obligations, you may arrange for a classmate to deliver your homework on the due date or submit it a class day early.
- **Homework/Minitab will be due at the beginning of the class.**

- You may work together on homework/minitab assignments, to the extent that you help each other to figure out how to approach the problems, and then write down the solutions in your own words.
- **All assignment questions are to be handled during my office hours.** When time allows, I will discuss solutions to homework problems or to problems similar to those on the homework. This usually involves one or two problems. Class time is devoted to the explanation of the current topic and to the solution of problems involved with this topic.

## Other Assignment Policy

If you are dissatisfied with a grade you are welcome to discuss it with me during my office hours. Class time will not be used for this purpose. **You must make an appointment and discuss the grade within 7 academic days of receiving the relevant exam/HW/Minitab/quiz back from me.**

## Course Grades

Each midterm examinations will be worth 100 points, and the final examination will be worth 200 points. Homeworks/Quizzes will be worth 100 points, Minitab assignments will be worth 100 points and ALEKS exam carries 10 points. At the end of the Semester, grades will be assigned based on the following scale:

Total Points	Grade
639-710	A
568-638	B
497-567	C
426-496	D
0-425	E

## Dropping The Course

The last day to drop without a signature is Friday, September 19, and the last day to drop with a grade of “W” (if passing) is Friday, October 17.

## Incomplete Grades

If you fail to complete the course due to circumstances unforeseen, then you may qualify for a grade of I, “incomplete” if **all** of the conditions are met:

1. You have completed all but a small portion of the required work.
2. You have scored at least 50% on all work completed.
3. You have a valid reason for not completing the course on time.
4. You agree to make up the material in a short period of time.
5. You ask for the incomplete before grades are due - 48 hours after the final exam.

## University Policies

You are expected to be familiar with and abide by the University of Arizona’s Code of Academic Integrity, Student Code of Conduct, and Official Student Email Policy. These policies will be strictly enforced.

## **Students with Disabilities**

If you anticipate issues related to the format or requirements of this course, please meet me to discuss ways to ensure your full participation in the course. If you determine that formal disability-related accommodations are necessary, it is very important that you be registered with Disability Resources (621-3268; [drc.arizona.edu](http://drc.arizona.edu)). You should notify me of your eligibility for accommodations by Friday, August 29 2008. We can then plan how to coordinate your accommodations.