

STAT 110: Introduction to Descriptive Statistics
Section 004, Spring 2009
MWF 10:10-11:00 in BA 002

Instructor: Dr. Brian Habing, Associate Professor

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Office Hours: whenever the door is open, by appointment, and
Tuesday/Thursday 8:45-11:45

Bulletin Description: Introduction to Descriptive Statistics. (3) Computational and graphical techniques for organizing and presenting statistical data. Sample mean and sample variance, cross tabulation of categorical data, correlation and simple linear regression, quality control charts, statistical software.

Purpose of the Course: To provide an integrated introduction to the basic statistical ideas that a person would encounter in everyday life.

Learning Outcomes: By the end of the course, successful students should be able to:

- Understand and be able to correctly use basic statistical terms.
- Recognize and evaluate variation in data.
- Be an informed reader and interpreter of survey and experimental results.
- Present data and interpret data using graphs and descriptive statistics.
- Recognize and evaluate the relationship between two variables.
- Understand and be able to apply simple principals of probability
- Estimate selected population parameters
- Interpret confidence intervals and make decisions based on basic hypothesis test results

Expectations: All students are expected to

- Attend class regularly and participate in in-class activities.
- Read the portions of the text as assigned.
- Make serious attempts at all of the assigned homework problems and in preparation for the hour exams.
- Use the resource of their fellow students, the tutoring room, and their instructor to seek answers to questions that arise in class, in the readings, and on the homework

Textbook: *Statistics: Concepts and Controversies* (6th Edition) by David S. Moore & William I. Notz, W. H. Freeman and Company, 2006. Note, **I-Clickers should be purchased with text**. Students will also be required to purchase an account on MyStatCourse.com

Calculator and Computer: Each student will need a basic calculator that takes a square root and raises a number to a power. Each student will need access to the internet to complete homework assignments and print off notes and readings. Programmable calculators (e.g. TI-83) are not allowed. For the homework assignments you will need an account on MyStatCourse.com that can be accessed through your web-browser. If you do not have web access elsewhere, a computer account through Department of Statistics can be set up for you. Two CAS labs are available in LeConte, room 124 and 303A. Check these locations for hours. Let me know if you wish to set up a Department of Statistics computer account.

Attendance: All students are expected to attend all classes. It is assumed that any information given out during class has been delivered to all students. It is expected that cell-phones and similar electronic devices will be turned off.

Exams (4 exams, 20% each): The first hour exam will be given on Friday, February 13th. The second hour exam will be given on Monday, March 23rd. The third hour exam will be given on Wednesday, April 22nd. Each of these exams will be preceded by a review class and will cover eleven lectures worth of material. The final exam will be begin at 9:00am on Thursday, April 30th. It will be cumulative and cover the material from the first three exams, as well as any additional material covered after exam 3. All work on the exams must be independent. Make-up exams will be considered only in extreme circumstances. Contact me as soon as possible if you think your situation merits a make-up.

Homework & Class Questions (20%): Homework covering the concepts taught in the class will be posted on MyStatCourse regularly throughout the semester. Students will submit their answers online and receive feedback on responses. A date and time for closing each assignment will be announced in class and appear on each assignment. No late assignments will be accepted. The MyStatCourse system will be demonstrated in class. You may discuss homework with other students, but each student must submit their assignment independently. In addition to my office hours, assistance on coursework is also available in the Statistics Tutoring Room in 215A LeConte.

We will also be using a “clicker system” to record responses during class. Each student will receive a point for responding to the first question and an additional point if at least half of the questions answered are correct. These points will combined with those received for homework to account for 20% of your grade. Clicker points will be recorded on MyStatCourse.

Grading Weights:

In-Class Exams 80% (4 @ 20% each)

Homework & Class 20%

TOTAL 100%

Grading Scale:

A 90-100% C 70-76.9%

B+ 87-89.9% D+ 67-69.9%

B 80-86.9% D 60-66.9%

C+ 77-79.9% F Less than 60%

If the score on the final exam is higher than the score of the lowest hour exam, then it will be used to replace the hour exam score.

Honor Code: See the *Carolinian Creed* in the *Carolina Community: Student Handbook & Policy Guide*.

MyStatCourse Information: MyStatCourse is a course management system available on the internet at www.mystatcourse.com. Homework assignments will be posted there and course notes, outside readings and this syllabus can be found under “Notes” section, and Clicker points will appear under “Other Scores”. To use MyStatCourse, you will need to register as at www.statcrunch.com for a \$12.00 fee (apparently \$12.84 with tax).

- 1) Go to www.statcrunch.com, select STUDENTS.
- 2) Click on “Subscribe” on the left menu and choose “Purchase 6 months of access for \$12.00.”
- 3) Read and Except the Privacy Policy.
- 4) Use your **USC Network username as the login**. This can be found in VIP under Technology and is the same as your Blackboard ID. If your USC Network username is not unique within the DoStat system, add the suffix @mailbox.sc.edu.
- 5) Provide the various information requested.and pay using either credit card or paypal.
- 6) Go to www.mystatcourse.com
- 7) Login in the upper left
- 8) Select “Add course” in the middle of the screen
- 9) Enter DS-72 and STAT110-S4-F09 respectively.

And now you can access MyStatCourse. Note, if you forget your userid or password, **do not re-register under a different userid and/or password**. e-mail me and I will send you a reminder. It is important to keep your e-mail address current in MyStatCourse since that is how class e-mails will be issued.