

ERSH 6300: Applied Statistical Methods in Education
Fall 2007, MW 5:00pm – 6:15pm

Instructor: Sara Templin, Ph.D.

Office: Aderhold 325C

Office Hours: Wednesday 3-5pm or by appointment

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TA: Adel Powell

Office Hours: Tues. 2-6pm, Wed. 9am-2pm, and Thurs. 2-5pm or by appt.

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Text Book:

Moore, D. S. (2007). The basic practice of Statistics. (4th Edition)
The basic practice of statistics SPSS manual (optional)

Objective:

The overall goal of the course is to present an introduction to statistics that emphasizes working with data and understanding statistical ideas. The emphasis on application will be achieved by numerous homework and computer lab assignments. You will also be tested twice over the semester on your understanding of the concepts discussed in the course.

Grading:

The course breakdown for your final grade will be as follows:

Homework Assignments:	30%	(120 points)
Lab Assignments:	20%	(80 points)
Midterm Exam:	25%	(100 points)
Final Exam:	25%	(100 points)

The usual $90+(A)/80+(B)/70+(C)/60+(D)$ grading scale will be used. I reserve the right to alter that scale as I see fit (i.e. making it more lenient).

WebCT:

WebCT will be used extensively throughout the semester. All lectures, homework, and lab assignments will be posted on the site, as well as announcements and discussion.

Remember to check the site (and your WebCT email) frequently! <http://webct.uga.edu/>

Computer Lab:

We have rooms 227/228 reserved for Thursdays, so we will be able to practice our skills using SPSS when needed. There will be a few days devoted exclusively to using SPSS.

Homework Assignments:

There will be short weekly homework assignments (approx. 12 total). These are due each Monday at the beginning of class. They can be submitted either in paper format or electronic format through WebCT.

You may work together on Homework Assignments; however, I expect that each of you turn in your own original work. Working together means that there will be more responsibility put on yourself to make sure you understand the problems and that you will be able to do it on your own during the exam.

Note: There will be no assignment due the week of Aug 27. There is no class on Sept 3, so homework will be due on Sept 5; There will be no assignment due the week of Nov 19

Computer Assignments:

There will be 4 computer assignments. Each will be due a week after our scheduled day in the computer lab. These can be submitted either in paper format or electronic format through WebCT.

Again, you may work together on computer assignments, however, I expect that each of you turn in your own original work. It will be important that you will be able to read output taken from SPSS on the exam.

Late Homework/Computer Assignment Policy:

No late homework assignments will be accepted. Assignments are due at the beginning of class time, so must be turned in at the start of class or submitted before 5pm.

Homework/Computer Assignment Grading Policy:

Homework assignments will be graded out of 10 points. Computer Assignments will be graded out of 20 points. Your lowest homework grade will be changed to a 10 at the end of the semester when calculating your final grade. For each assignment, a random subset of problems will be graded. It is your responsibility to make sure you understand every problem, even if it was not graded.

Exams:

Both the Midterm and Final Exams will be in-class. I really want this course to be more about the concepts rather than brute memorization of formulas! Therefore, you will be allowed to bring in one 8.5 X 11 sheet of paper with notes/formulas written on both sides of the page. This paper must be written by you in pen or pencil and must be turned in with your exam. Photocopies or printed material will not be accepted.

Course Schedule:

Date	Topics Covered	Chapters Covered
Aug 20	Introductions, Syllabus	
Aug 22	Picturing and Describing Distributions	1, 2
Aug 27	Normal Distribution	3
Aug 29	Scatterplots and Correlation	4
Sept 3	NO CLASS – LABOR DAY	
Sept 5	Regression	5
Sept 10	2-way tables	6
Sept 12	Computer Lab – Meet in 227/228	*1-6
Sept 17	Sampling	8
Sept 19	Experimental Design	9
Sept 24	Probability	10
Sept 26	Sampling Distributions	11
Oct 1	Probability Rules and Binomial Distribution	12, 13
Oct 3	Confidence Intervals	14
Oct 8	Tests of Significance	15, 16
Oct 10	Computer Lab – Meet in 227/228	*8-16
Oct 15	REVIEW	
Oct 17	MIDTERM EXAM	
Oct 22	Discuss Midterm	
Oct 24	Inference about Mean	18
Oct 29	2-sample problems	19
Oct 31	Inference about proportions	20
Nov 5	Comparing 2 proportions	21
Nov 7	Computer Lab – Meet in 227/228	*18-21
Nov 12	Chi-Square Test	23
Nov 14	Inference for Regression	24
Nov 19	NO CLASS – AT CONFERENCE	
Nov 21	NO CLASS – THANKSGIVING BREAK	
Nov 26	One-Way ANOVA	25
Nov 28	Computer Lab – Meet in 227/228	*23-25
Dec 3	Multiple Regression and 2-Way ANOVA	28,29-not on final
Dec 5	REVIEW	
Dec 14	FINAL EXAM – 3:30 – 6:30	