

ERSH 6300: APPLIED STATISTICAL METHODS IN EDUCATION

Spring – 2007
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 Office: 325S Aderhold Hall
 Office hours: T/R 4:00 to 5:00

Date	Approximate Topics Covered	HW Due	LA Due
01-09	Housekeeping, overview of course/statistics		
01-11	Scales of measurement, organizing/graphing data		
01-16	Organizing/graphing data, shapes of distributions	*	
01-18	Central tendency		
01-23	Variability	*	
01-25	Normal Distributions		*
01-30	Scatter plots, correlation	*	
02-01	Correlation, intro to regression		
02-06	Producing data (sampling and experiments)	*	
02-08	Introducing probability		*
02-13	More about probability, binomial distributions	*	
02-15	Sampling distributions		
02-20	Confidence intervals	*	
02-22	Review for midterm exam		
02-27	Midterm Exam		
03-01	Hypothesis testing		
03-06	Inference about one mean (one sample z tests)		
03-08	Inference about one mean (one sample t tests)	*	
03-13	<i>Spring Break</i>		
03-15	<i>Spring Break</i>		
03-20	Inference about two means (independent samples t-test)		*
03-22	Inference about two means (dependent samples t-test)		
03-27	Inference about one proportion	*	
03-29	Comparing two proportions		*
04-03	Two categorical variables (chi-square)	*	
04-05	Reading journal articles		*

04-10	<i>AERA/NCME</i>		
04-12	<i>AERA/NCME</i>		
04-17	Revisiting regression	*	
04-19	Analysis of variance		
04-24	Analysis of variance	*	
04-26	Review for final exam		*
TBA	Final Exam		

Text: The Basic Practice of Statistics (4th edition), Moore, D.S.

Other readings may be assigned as well. Those will be available in pdf form.

Grading Policy: Midterm – 25%

Final – 25%

Homework – 25%

Lab assignments – 25%

90% or higher = A, 80-89% = B, 70-79% = C, 60-69% = D, Below 60% = F (+/- grades)

Exams: Students will be allowed to bring one-half sheet of notes (one side) and a calculator with them to the exams. Any student caught with other materials, or caught cheating in any manner will be turned in to the honor council. Make-up exams will only be given with a verifiable doctor's note.

Homework: Homework is **very** important. The expectation is that each student will do his or her own homework assignment. Once the assignment is done, it is permissible to check your work with other students. Students who need help on an assignment should see me during my office hours or email me with specific questions. Homework assignments will NOT be accepted late; however the lowest score will be dropped.

Labs/Projects: These are assignments that will offer practice on previously taught material and break new ground in terms of knowledge and skills. Students will generally work alone but may be asked to work in groups and turn in one assignment for the group. All students in a group are expected to participate fully. Group members who feel that a group member has not participated fully should discuss the matter with me.

Academic Honesty: Students are responsible for being familiar with UGA's policy on academic honesty as public in the booklet, *A Culture of Honesty: Policy on Academic Honesty* (available on-line at <http://www.uga.edu/honesty>). The UGA policy and regulations will be followed in this class.

Incompletes: Unless the student can demonstrate that a catastrophic event has led to extreme hardship, grades of "Incomplete" will not be given in ERSH 6300.

Special Arrangements: Contact me early in the semester to discuss alternative arrangements if the schedule indicates that you will need special arrangements for religious reasons or if you have documented disabilities that require accommodations of some sort. Note that all students must meet the achievement standards for this class; accommodations may be made only in terms of how such achievement is demonstrated.