Economics 120A

Spring, 2006 MWF, 10:00 a.m., 108 Peterson Hall Dr. Dennis Smallwood Room 306, ECON

The course is an introduction to the basic concepts of probability and statistics. It is the first in a three quarter introductory sequence in econometrics. The lectures generally will closely follow the textbook:

Introductory Statistics For Business and Economics, 4th Edition, by Thomas H. Wonnacott and Ronald J. Wonnacott,

but additional material will occasionally be introduced for which the student is responsible. The student is also expected to purchase the student workbook for Wonnacott and Wonnacott. Specific lecture topics and reading assignments are listed on the next page.

WebCT will be used to post additional course materials and grades. Please use WebCT for all course-related e-mail. E-mail sent to other addresses (e.g., official UCSD accounts) may not receive a timely response and you may be requested to repost your message to our WebCT mailboxes. You must be logged onto WebCT to send e-mail to WebCT mailboxes.

There will be three teaching assistants for the course: Karim Chalak, Phil Neary, and Suyong Song. Their office hours, and mine, will be announced and will be posted on the UCSD WebCT class website.

Grades will be based on your total score for the course. The scored events will include:

Six in-class quizzes (20 points each)	6x20 = 120	30%
One in-class mid-term (80 points)	80	20%
Two problem sets (32 points each)	2x32 = 64	16%
Final Exam (136 points)	136	<u>34 %</u>
	400	100%

The lowest of the six quiz grades will be dropped (with the average for the other five quizzes substituted). No make-ups for quizzes will be allowed. If you have to miss a quiz for a sports, medical, or family conflict, that will count as your dropped quiz. A make-up for the mid-term will be scheduled, but a student can take the make-up only for a serious, documented medical, legal, family, or varsity sports conflict. Any such foreseeable conflict must be approved beforehand. The final exam will be given only at the scheduled time.

You will probably need a 4 $\frac{1}{4}$ x 11 Scantron form for the second and sixth quizzes. This should be an apple green (not blue-green) scantron form that says "ParSCORE Test Form, ECONOMICS RESEARCH, INC., 1990" at the top end. Always bring a calculator to a test, but be warned that you must show all calculations, however simple. In other words, if your calculator has a button for the standard deviation, for example, simply putting down an answer will get you no credit. You must document your calculations and demonstrate that you know the formulas and how to apply them. For testing purposes, use just the simple arithmetic (+,-, /, x, power, square root) functions.

The final exam will be on Tuesday, June 13, from 8:00 a.m. to 11:00 a.m. It is likely to be in the classroom, but that is not certain so watch for an announcement during the tenth week.

Apr 3 Mon	Introduction	
Apr 5 Wed	Experiments and Randomization	Ch. 1, pp. 3-16
Apr 7 Fri	Descriptive Statistics	Ch. 2.1-2.3, pp. 25-46
		c, ppc
Apr 10 Mon	Grouped Data Linear Transformations	Ch 2 5-2 6 pp 47-53
Apr 12 Wed	Graphs and Displays	Ch. 2.5 2.0, pp. $+7.55$ Ch. 2.7 pp. 53.65
Apr 14 Eri	Dagio Drobability Concenta OUT 1	Ch. 2.1, pp. $55-05$
Арі 14 гн	Basic Probability Concepts QUIZ I	Сп. 5.1-5.5, рр. 70-85
Apr 17 Mon	Conditional Probability Independence	Ch $3.4-3.5$ pp $85-92$
Apr 10 Wed	Bayas Theorem Brobability Concepts	Ch. $3.4 \ 3.5, \text{pp. } 03 \ 72$
Apr 19 weu	Dayes Theorem, Flobability Concepts	Ch. 4.1.4.2 pp. 95-102
Apr 21 Fri	Random variables Prod Set I Distributed	Cn. 4.1-4.2, pp. 110-115
Apr 24 Mon	The Binomial OIIIZ 2	Ch 4.3 nn $116-122$
Apr 26 Wed	Continuous Distributions: The Normal	Ch. $4.4.5$ pp. 110-122 Ch. $4.4.4.5$ pp. 124.122
Apr 20 wed		Cli. 4.4-4.3, pp. 124-135
Apr 28 Fri	Functions of A Random Variable	Ch. 4.6, pp. 134-140
May 1 Mon	Two Random Variables OUIT 3	Ch 5 1 154-158
May 2 Wed	Coversion and Correlation Drah Sat 1 Dua	Ch. $5.1, 15+150$
Mary 5 Weu	Linear Combinations, Provident	Ch. 5.4 and 170 176
May 5 Fri	Linear Combinations, Review	Cn. 5.4, pp. 170-176
May 8 Mon	MIDTERM	
May 8 Mon May 10 Wed	MIDTERM Pandom Sampling, The Sample Mean	Ch = 61 = 63 nn = 180 = 205
May 8 Mon May 10 Wed May 12 Fri	MIDTERM Random Sampling, The Sample Mean	Ch. 6.1-6.3, pp. 189-205
May 8 Mon May 10 Wed May 12 Fri	MIDTERM Random Sampling, The Sample Mean Proportions	Ch. 6.1-6.3, pp. 189-205 Ch. 6.4-6.5, pp. 207-218
May 8 Mon May 10 Wed May 12 Fri May 15 Mon	MIDTERM Random Sampling, The Sample Mean Proportions	Ch. 6.1-6.3, pp. 189-205 Ch. 6.4-6.5, pp. 207-218 Ch. 7 1-7 2, pp. 232-238
May 8 Mon May 10 Wed May 12 Fri May 15 Mon May 17 Wed	MIDTERM Random Sampling, The Sample Mean Proportions Point Estimation Efficient Estimators OUIZ 4	Ch. 6.1-6.3, pp. 189-205 Ch. 6.4-6.5, pp. 207-218 Ch. 7.1-7.2, pp. 232-238 Ch. 7.3-7.4, pp. 239-242
May 8 Mon May 10 Wed May 12 Fri May 15 Mon May 17 Wed May 19 Fri	MIDTERM Random Sampling, The Sample Mean Proportions Point Estimation Efficient Estimators QUIZ 4 Confidence Intervals	Ch. 6.1-6.3, pp. 189-205 Ch. 6.4-6.5, pp. 207-218 Ch. 7.1-7.2, pp. 232-238 Ch. 7.3-7.4, pp. 239-242 Ch. 8 1 8 2, pp. 254, 264
May 8 Mon May 10 Wed May 12 Fri May 15 Mon May 17 Wed May 19 Fri	MIDTERM Random Sampling, The Sample Mean Proportions Point Estimation Efficient Estimators QUIZ 4 Confidence Intervals	Ch. 6.1-6.3, pp. 189-205 Ch. 6.4-6.5, pp. 207-218 Ch. 7.1-7.2, pp. 232-238 Ch. 7.3-7.4, pp. 239-242 Ch. 8.1-8.2, pp. 254-264
May 8 Mon May 10 Wed May 12 Fri May 15 Mon May 17 Wed May 19 Fri May 22 Mon	MIDTERM Random Sampling, The Sample Mean Proportions Point Estimation Efficient Estimators QUIZ 4 Confidence Intervals	Ch. 6.1-6.3, pp. 189-205 Ch. 6.4-6.5, pp. 207-218 Ch. 7.1-7.2, pp. 232-238 Ch. 7.3-7.4, pp. 239-242 Ch. 8.1-8.2, pp. 254-264 Ch. 8.3-8.4 pp. 265-270
May 8 Mon May 10 Wed May 12 Fri May 15 Mon May 17 Wed May 19 Fri May 22 Mon May 24 Wed	MIDTERM Random Sampling, The Sample Mean Proportions Point Estimation Efficient Estimators QUIZ 4 Confidence Intervals Differences In Two Means Proportions Prob Set 2 Distributed	Ch. 6.1-6.3, pp. 189-205 Ch. 6.4-6.5, pp. 207-218 Ch. 7.1-7.2, pp. 232-238 Ch. 7.3-7.4, pp. 239-242 Ch. 8.1-8.2, pp. 254-264 Ch. 8.3-8.4, pp. 265-270 Ch. 8.5, pp. 273-276
May 8 Mon May 10 Wed May 12 Fri May 15 Mon May 17 Wed May 19 Fri May 22 Mon May 24 Wed May 26 Fri	 MIDTERM Random Sampling, The Sample Mean Proportions Point Estimation Efficient Estimators QUIZ 4 Confidence Intervals Differences In Two Means Proportions Prob Set 2 Distributed Humothesis Testing QUIZ 5 	Ch. 6.1-6.3, pp. 189-205 Ch. 6.4-6.5, pp. 207-218 Ch. 7.1-7.2, pp. 232-238 Ch. 7.3-7.4, pp. 239-242 Ch. 8.1-8.2, pp. 254-264 Ch. 8.3-8.4, pp. 265-270 Ch. 8.5, pp. 273-276 Ch. 0.1 0.2, pp. 288-208
May 8 Mon May 10 Wed May 12 Fri May 15 Mon May 17 Wed May 19 Fri May 22 Mon May 24 Wed May 26 Fri	MIDTERM Random Sampling, The Sample Mean Proportions Point Estimation Efficient Estimators QUIZ 4 Confidence Intervals Differences In Two Means Proportions Prob Set 2 Distributed Hypothesis Testing QUIZ 5	Ch. 6.1-6.3, pp. 189-205 Ch. 6.4-6.5, pp. 207-218 Ch. 7.1-7.2, pp. 232-238 Ch. 7.3-7.4, pp. 239-242 Ch. 8.1-8.2, pp. 254-264 Ch. 8.3-8.4, pp. 265-270 Ch. 8.5, pp. 273-276 Ch. 9.1-9.2, pp. 288-298
May 8 Mon May 10 Wed May 12 Fri May 15 Mon May 17 Wed May 19 Fri May 22 Mon May 24 Wed May 26 Fri May 29 Mon	 MIDTERM Random Sampling, The Sample Mean Proportions Point Estimation Efficient Estimators QUIZ 4 Confidence Intervals Differences In Two Means Proportions Prob Set 2 Distributed Hypothesis Testing QUIZ 5 VACATION 	Ch. 6.1-6.3, pp. 189-205 Ch. 6.4-6.5, pp. 207-218 Ch. 7.1-7.2, pp. 232-238 Ch. 7.3-7.4, pp. 239-242 Ch. 8.1-8.2, pp. 254-264 Ch. 8.3-8.4, pp. 265-270 Ch. 8.5, pp. 273-276 Ch. 9.1-9.2, pp. 288-298
May 8 Mon May 10 Wed May 12 Fri May 15 Mon May 17 Wed May 19 Fri May 22 Mon May 24 Wed May 26 Fri May 29 Mon May 31 Wed	 MIDTERM Random Sampling, The Sample Mean Proportions Point Estimation Efficient Estimators QUIZ 4 Confidence Intervals Differences In Two Means Proportions Prob Set 2 Distributed Hypothesis Testing QUIZ 5 VACATION Classical Hypothesis Testing Prob Set 2 Due 	Ch. 6.1-6.3, pp. 189-205 Ch. 6.4-6.5, pp. 207-218 Ch. 7.1-7.2, pp. 232-238 Ch. 7.3-7.4, pp. 239-242 Ch. 8.1-8.2, pp. 254-264 Ch. 8.3-8.4, pp. 265-270 Ch. 8.5, pp. 273-276 Ch. 9.1-9.2, pp. 288-298
May 8 Mon May 10 Wed May 12 Fri May 15 Mon May 17 Wed May 19 Fri May 22 Mon May 24 Wed May 26 Fri May 29 Mon May 31 Wed	 MIDTERM Random Sampling, The Sample Mean Proportions Point Estimation Efficient Estimators QUIZ 4 Confidence Intervals Differences In Two Means Proportions Prob Set 2 Distributed Hypothesis Testing QUIZ 5 VACATION Classical Hypothesis Testing Prob Set 2 Due OCC and Two Sided Tests 	Ch. 6.1-6.3, pp. 189-205 Ch. 6.4-6.5, pp. 207-218 Ch. 7.1-7.2, pp. 232-238 Ch. 7.3-7.4, pp. 239-242 Ch. 8.1-8.2, pp. 254-264 Ch. 8.3-8.4, pp. 265-270 Ch. 8.5, pp. 273-276 Ch. 9.1-9.2, pp. 288-298 Ch. 9.3-9.4, pp. 300-309 Ch. 9.5 9.6, pp. 210-218
May 8 Mon May 10 Wed May 12 Fri May 15 Mon May 17 Wed May 19 Fri May 22 Mon May 24 Wed May 26 Fri May 29 Mon May 31 Wed June 2 Fri	MIDTERM Random Sampling, The Sample Mean ProportionsPoint Estimation Efficient Estimators QUIZ 4 Confidence IntervalsDifferences In Two Means Proportions Prob Set 2 Distributed Hypothesis Testing QUIZ 5VACATION Classical Hypothesis Testing OCC and Two Sided Tests QUIZ 6	Ch. 6.1-6.3, pp. 189-205 Ch. 6.4-6.5, pp. 207-218 Ch. 7.1-7.2, pp. 232-238 Ch. 7.3-7.4, pp. 239-242 Ch. 8.1-8.2, pp. 254-264 Ch. 8.3-8.4, pp. 265-270 Ch. 8.5, pp. 273-276 Ch. 9.1-9.2, pp. 288-298 Ch. 9.3-9.4, pp. 300-309 Ch. 9.5-9.6, pp. 310-318
May 8 Mon May 10 Wed May 12 Fri May 15 Mon May 17 Wed May 19 Fri May 22 Mon May 24 Wed May 26 Fri May 29 Mon May 31 Wed June 2 Fri	 MIDTERM Random Sampling, The Sample Mean Proportions Point Estimation Efficient Estimators QUIZ 4 Confidence Intervals Differences In Two Means Proportions Prob Set 2 Distributed Hypothesis Testing QUIZ 5 VACATION Classical Hypothesis Testing Prob Set 2 Due OCC and Two Sided Tests QUIZ 6 	Ch. 6.1-6.3, pp. 189-205 Ch. 6.4-6.5, pp. 207-218 Ch. 7.1-7.2, pp. 232-238 Ch. 7.3-7.4, pp. 239-242 Ch. 8.1-8.2, pp. 254-264 Ch. 8.3-8.4, pp. 265-270 Ch. 8.5, pp. 273-276 Ch. 9.1-9.2, pp. 288-298 Ch. 9.3-9.4, pp. 300-309 Ch. 9.5-9.6, pp. 310-318 Ch. 10.1, pp. 325-334
May 8 Mon May 10 Wed May 12 Fri May 15 Mon May 17 Wed May 19 Fri May 22 Mon May 24 Wed May 26 Fri May 29 Mon May 31 Wed June 2 Fri June 5 Mon June 7 Wed	 MIDTERM Random Sampling, The Sample Mean Proportions Point Estimation Efficient Estimators QUIZ 4 Confidence Intervals Differences In Two Means Proportions Prob Set 2 Distributed Hypothesis Testing QUIZ 5 VACATION Classical Hypothesis Testing Prob Set 2 Due OCC and Two Sided Tests QUIZ 6 One Way ANOVA Two Way ANOVA 	Ch. 6.1-6.3, pp. 189-205 Ch. 6.4-6.5, pp. 207-218 Ch. 7.1-7.2, pp. 232-238 Ch. 7.3-7.4, pp. 239-242 Ch. 8.1-8.2, pp. 254-264 Ch. 8.3-8.4, pp. 265-270 Ch. 8.5, pp. 273-276 Ch. 9.1-9.2, pp. 288-298 Ch. 9.3-9.4, pp. 300-309 Ch. 9.5-9.6, pp. 310-318 Ch. 10.1, pp. 325-334 Ch. 10.2-10.3, pp. 336-346
May 8 Mon May 10 Wed May 12 Fri May 15 Mon May 17 Wed May 19 Fri May 22 Mon May 24 Wed May 26 Fri May 29 Mon May 31 Wed June 2 Fri June 5 Mon June 7 Wed June 9 Fri	 MIDTERM Random Sampling, The Sample Mean Proportions Point Estimation Efficient Estimators QUIZ 4 Confidence Intervals Differences In Two Means Proportions Prob Set 2 Distributed Hypothesis Testing QUIZ 5 VACATION Classical Hypothesis Testing Prob Set 2 Due OCC and Two Sided Tests QUIZ 6 One Way ANOVA Two Way ANOVA Review 	Ch. 6.1-6.3, pp. 189-205 Ch. 6.4-6.5, pp. 207-218 Ch. 7.1-7.2, pp. 232-238 Ch. 7.3-7.4, pp. 239-242 Ch. 8.1-8.2, pp. 254-264 Ch. 8.3-8.4, pp. 265-270 Ch. 8.5, pp. 273-276 Ch. 9.1-9.2, pp. 288-298 Ch. 9.3-9.4, pp. 300-309 Ch. 9.5-9.6, pp. 310-318 Ch. 10.1, pp. 325-334 Ch. 10.2-10.3, pp. 336-346