## 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, $4^{\text {th }}$ 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) | $6 \times 20=120$ | $30 \%$ |
| :--- | ---: | :--- |
| One in-class mid-term (80 points) | 80 | $20 \%$ |
| Two problem sets (32 points each) | $2 \times 32=64$ | $16 \%$ |
| Final Exam (136 points) | $\frac{136}{400}$ | $\underline{34 \%}$ |
|  |  | $100 \%$ |

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 $4 \frac{1}{4} \times 11$ 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 (,,$+- /, \mathrm{x}$, 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
Apr 10 Mon Grouped Data, Linear Transformations
Apr 12 Wed Graphs and Displays
Apr 14 Fri Basic Probability Concepts QUIZ 1
Apr 17 Mon Conditional Probability, Independence
Apr 19 Wed Bayes Theorem, Probability Concepts
Apr 21 Fri Random Variables Prob Set 1 Distributed
Apr 24 Mon The Binomial QUIZ 2
Apr 26 Wed Continuous Distributions; The Normal
Apr 28 Fri Functions of A Random Variable
May 1 Mon Two Random Variables QUIZ 3
May 3 Wed Covariance and Correlation, Prob Set 1 Due
May 5 Fri Linear Combinations, Review
May 8 Mon MIDTERM
May 10 Wed Random Sampling, The Sample Mean
May 12 Fri Proportions
May 15 Mon Point Estimation
May 17 Wed Efficient Estimators QUIZ 4
May 19 Fri Confidence Intervals
May 22 Mon Differences In Two Means
May 24 Wed Proportions Prob Set 2 Distributed
May 26 Fri Hypothesis Testing QUIZ 5
May 29 Mon VACATION
May 31 Wed Classical Hypothesis Testing Prob Set 2 Due June 2 Fri OCC and Two Sided Tests QUIZ 6

Ch. 2.5-2.6, pp. 47-53
Ch. 2.7, pp. 53-65
Ch. 3.1-3.3, pp. 70-85
Ch. 3.4-3.5, pp. 85-92
Ch. 3.6-3.7, pp. 93-102
Ch. 4.1-4.2, pp. 110-115
Ch. 4.3, pp. 116-122
Ch. 4.4-4.5, pp. 124-133
Ch. 4.6, pp. 134-140
Ch. 5.1, 154-158
Ch. 5.2-5.3, pp. 161-169
Ch. 5.4, pp. 170-176

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
June 5 Mon One Way ANOVA
Ch. 10.1, pp. 325-334
June 7 Wed Two Way ANOVA
Ch. 10.2-10.3, pp. 336-346

