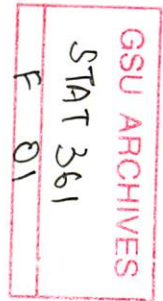


COLLEGE OF BUSINESS AND PUBLIC ADMINISTRATION  
STAT 361  
FALL 2001  
WM TONER

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COURSE CONTENT:

This course is designed to introduce students to statistical thinking. It deals with simple graphical descriptions, various numerical descriptive measures, the notion of probability, discrete and continuous random variables, and sampling distributions. Students will also examine aspects of hypothesis testing involving one or two populations. Throughout the course, students should emphasize the understanding of statistical concepts--what these concepts involve and when they should or should not be used. Finally, students are expected to demonstrate competence in the use of statistical programs.

TEXT:

Anderson, David R. et al. (Most Recent Edition) Statistics for Business and Economics, West Publishing Company, Saint Paul, Minn.

Assignments:

Week 1:: Introduction to the course, Defining Statistics, Chp 1, Descriptive Stats, Chp 2  
Assigned Problems

Week 2: Chapter 3, Descriptive Statistics, Assigned Problems.

Week 3: Chapter 4, Intro to Probability, Assigned Problems

Week 4: Chapter 4, Intro to Probability, Assigned Problems.

Week 5: Exam, Chpts 1,2,3,4; Assigned Problems Due; Chapter 5, Discrete Probability Distributions, Assigned Problems

Week 6: Chapter 5, Discrete Probability Distributions, Assigned Problems

Week 7: Chapter 6, Continuous Probability Distributions

Week 8: Chapter 6, Continuous Probability Distributions, Assigned Problems; Exam Chpts 5,6, Assigned Problems Due.

Week 9: Chapter 7, Sampling and Sampling Distributions, Assigned Problems

Week 10: Chapter 7, Sampling and Sampling Distributions, Assigned Problems; Exam Chp 7, Assigned Problems Due

Week 11: Chapter 8, Interval Estimation, Assigned Problems

Week 12: Chapter 8, Interval Estimation, Assigned Problems; Exam, Chapter 8, Assigned Problems Due.

Week 13: Chapter 9, Hypothesis Testing, Assigned Problems

Week 14: Chapter 9, Hypothesis Testing, Assigned Problems; Exam Chapter 9, Assigned Problems Due

Week 15: Chapter 10, Statistical Inference, Assigned Problems; Exam Chapter 10, Assigned Problems Due.

#### Evaluation:

The six examinations will be used to assign grades. Each of the six exams carries the same weight in determining the final grade for the course. In addition to the seven exams, students may gain up to five bonus points toward their final grade by completing all assigned problems and submitting them when due.

The grade distribution is as follows:

- A: 92 - 100
- B: 80 - 91
- C: 70 - 79
- D: 60 - 69
- F: <69

#### Notes on the Course:

1. There is no secret to the successful completion of this course. It is simple. Do the assigned problems. Experience in previous classes demonstrates that students who do the assigned problems do well in the course. Conversely, students who do not do the assigned problems, do not do well in the course. To encourage you to do the problems, you may earn up to five bonus points for the successful completion of them. There is no penalty for those students who chose not to do the problems.

2. Doing the problems is essential to understanding statistical concepts. But another very important strategy to help you do well in the course is to form study groups with your fellow

students. Research on small study groups has shown that the members of such groups tend to score much higher on exams than those who are not members. Further, you will find that the study group will be very important in helping each member complete the assigned problem.

3. The computing center has several statistical programs that you may use to solve the assigned problems. In working through the problems you will find that the computer program is a very efficient device for completing your assigned problems. In working with the program, you will save many, many hours of work and, in addition, improve your array of personal skills. However, you must insure that you know how to complete the problems using only your calculator. Thus, learn to solve problems first with your calculator. When the method required is fully understood, then use statistical programs on remaining problems.

4. If you develop difficulty as we proceed through the course, the best approach is to ask questions, lots of questions. If you feel the need for additional discussion, see me during office hours or make arrangements to spend time with a statistical tutor who is available, free of charge, to students. Contact the Office of Student Services for more information. If several of you avail yourselves of this service, the Office may set up a tutorial specifically for this course.

5. While the pace of the course is quite slow in the beginning weeks of the course, things pick up quite rapidly after that. This increased pace, in turn, will require more time and attention by you to the assigned problems.

6. All exams will be completed in the classroom. Students will be required to provide their own paper and calculator. **DO NOT WRITE ON THE EXAM. PUT YOUR WORK AND ANSWERS ON A SEPARATE SHEET.** Note: Partial credit for solving problems may be given even if the answer is incorrect. So show your work!

7. A calculator with statistical functions will be a necessity in this course.