

## **PSYC 2013: Introduction to Statistics**

Spring 2002, MWF 8:30 - 9:20, 114 Memorial Hall

Required Text: The Basic Practice of Statistics (2nd edition) by D. S. Moore

Office Hours: 10:00 - 10:50 a.m. MTWTF and by appointment

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**Course Structure:** The structure of this course will consist of in-class lecturing and discussion of course materials as well as group work, both in and out of class, and regular homework assignments. Students will be responsible for all assigned materials.

Although some of the material covered in lectures will also be covered in the text, there will be topics throughout the semester that are presented in class that are not included in the text. Likewise, there will be topics presented in the text that will not be included in class. In order to excel in this course, students will be required to have a good working knowledge of both lecture and text material.

Although attendance is not required, it is strongly encouraged. The in-class description and discussion of course materials is vital to acquiring a clear understanding complex statistical concepts. There will also be a number of homework and groupwork assignments you will be responsible for throughout the course. These assignments will not be accepted late or outside of class. Finally, you will have the opportunity to earn extra credit points during class throughout the semester. These extra credit opportunities may include in-class assignments, assignments outside of class, or exam questions.

To assist in your exam preparation a study guide will be distributed prior to each exam. The study guide will include a list of the major concepts covered in a particular exam section. In addition to the study guide, a review session will be held before each exam during which students may ask questions about the upcoming exam.

**Grading Policy:** There will be four major examinations during the course of the semester. Each examination will be worth 75 points. There will also be 100 points in homework, groupwork, and quizzes. Student's grades in this course will be calculated as the total number of earned points divided by the total number of available points. Final grades will be calculated out of 400 total points and will be assigned as follows:

- 360 - 400 points - A
- 320 - 359 points - B
- 280 - 319 points - C
- 240 - 279 points - D
- 0 - 239 points - F

Examinations will include all materials assigned or discussed in a particular section of the course (sections of the course are outlined in the course schedule on the following pages). These materials will generally consist of lecture notes, reading assignments, and applying your knowledge to problem solving situations. The final examination for this course will not be comprehensive.

**Make-Up Examinations:** If an examination is missed due to illness or emergency circumstances, the student must notify the Psychology Office (575 - 4256) of his/her absence on the day of the exam. All make-up examinations are tentatively scheduled for April 20, 2002, at 10:00 a.m. Any examination that is not completed by the end of the course will be scored as a 0 (zero). Students missing two or more examinations should withdraw from the course.

**Academic Honesty:** Provisions of the Code of Conduct of the University of Arkansas will be followed in this course. Cheating in any form will result in failure of the course and any violator of the Code of Conduct will be immediately referred to the All-University Judicial Board for subsequent action. If cheating is suspected but conclusive evidence is not available, this instructor reserves the right to re-administer any examination or assignment in question.

**Inclement Weather Policy:** If the University remains open, class will be held as scheduled. However, if severe or adverse weather conditions prohibit your attendance from class or threaten your safety, a reasonable effort will be made to accommodate you. In the event that the University is closed on the day an examination is scheduled the examination will be administered during the following class.

## **Course outline for Spring Session 2002**

Week of: Reading Assignment and Lecture topic (tentative)

- 1 - 14 Chapter 1: Examining Distributions (graphs)
- 1 - 21 Chapter 1: Examining Distributions (measurements)
- 1 - 28 Chapter 2: Examining Relationships (correlation)
- 2 - 4 Chapter 2: Examining Relationships (regression)

### **Exam 1: Friday February 8, 2002**

- 2 - 11 Chapter 3: Producing Data (sampling and design)
- 2 - 18 Chapter 3: Producing Data (sampling and design)
- 2 - 18 Chapter 4: Probability and Sampling Distributions (random and variance)
- 2 - 25 Chapter 5: Probability Theory (independence and binomial)
- 2 - 25 Chapter 6: Introduction to Inference (confidence and significance)

### **Exam 2: Friday March 1, 2002**

- 3 - 4 Chapter 7: Inference for Distributions (t-tests)
- 3 - 11 Chapter 7: Inference for Distributions (t-tests)
  
- 3 - 18 SPRING BREAK
  
- 3 - 25 Chapter 8: Inference for Proportions (z-scores)
- 4 - 1 Chapter 8: Inference for Proportions (z-scores)

### **Exam 3: Friday April 5, 2002**

- 4 - 8 Chapter 9: Inference for Two-Way Tables (chi-square)
- 4 - 15 Chapter 9: Inference for Two-Way Tables (chi-square)
- 4 - 15 Chapter 10: Oneway Analysis of Variance (anova testing)
  
- 4 - 20 ALL MAKE-UP EXAMS - 10:00 a.m.
  
- 4 - 22 Chapter 10: Oneway Analysis of Variance (anova testing)
- 4 - 29 Chapter 10: Oneway Analysis of Variance (anova testing)

### **Exam 4: Wednesday May 1, 2002**