

PSYCHOLOGY 225: INTRODUCTION TO STATISTICS FOR THE BEHAVIORAL SCIENCES Spring Semester 2006

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Office Hours: before class & by appointment

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Class Time: Mondays, Wednesdays, & Fridays 8:00-9:50 am

Class Location: S&B, Room 104

Recommended Text: Caldwell, S. (2004). *Statistics Unplugged*. Belmont, CA: Wadsworth, Thomson Learning.

COURSE OBJECTIVES: The goals of this course are:

- To familiarize you with the basic terminology and concepts of statistics
- To teach you how to use statistical methods and procedures
- To help you to understand the logic behind statistical concepts and procedures
- To eliminate any anxiety you may have about statistics

CLASSROOM TIME: The use of class time will vary, depending on the learning objectives and material.

- **Lectures** will be used to explain and demonstrate statistical concepts and procedures.
- **In-Class Exercises and Problem Sets** will be used to help you understand relevant principles and apply statistical procedures.
- **Exams** will help you to learn, review, and synthesize course material.

CLASSROOM POLICIES:

- **Attendance and Active Participation:** Attendance and active participation are extremely important. Attendance is required and will count for a portion of your final grade. This class does not have an excused/unexcused absence policy, meaning that you will lose points for attendance if you miss class, regardless of the reason. This takes me out of the role of sitting in judgment of students' reasons for missing classes. So you do not need to let me know if you will miss class or your reasons for missing class. And you do not need to provide documentation for missed classes. Please be advised that exams will be based heavily on class material, so missing class will affect your performance on exams. *You are still responsible for all information covered in class, whether you were there or not. Please note that I will not re-teach course material for classes you have missed. You will need to get notes and administrative information from a classmate.*

- **Late Problem Sets and Exams:** Late problem sets and exams will receive lower scores. If you have a legitimate reason for needing to miss an exam or turn in an assignment late, such as sickness, death in the family, etc., it is your responsibility to provide a timely explanation and appropriate documentation, such as a written medical excuse. Please be advised that penalties for late assignments and exams will be determined on an individual basis at my discretion.
- **Students with Disabilities:** In accordance with Section 503 and 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, the University of North Carolina at Wilmington attempts to accommodate all students with a documented disability. Various aids, such as sign language interpreters, readers, testing accommodations, etc., are available to students through Disability Services. If you require such services, please let me know and contact Disability Services as soon as possible.
- **Academic Honesty:** In this class, it is assumed that each student and myself will act in a professional and honest manner. Therefore, any student who engages in an act of academic dishonesty, such as cheating on an exam, will receive a failing grade for that assignment or exam and possibly a failing grade for the course. Please review the sections on Academic Standards, Cheating, and Plagiarism in the Code of Student Conduct in the University Undergraduate Catalog. If you have questions about academic honesty or the expectations of this course for a particular assignment, please let me know.

COURSE REQUIREMENTS:

- **Attendance:** Attendance is worth 50 points (or approximately 13% of your overall grade) and will be based on the total number of classes attended. Thus, the more classes you attend, the more points you will earn for attendance. You will not receive credit for classes you do not attend, regardless of the reason.
- **Problem Sets:** There will be 9 in-class problem sets, each worth 10 points, for a total of 90 points (or approximately 23% of your overall grade)
- **Exams:** There will be 5 in-class exams. Each exam will be worth 50 points, for a total of 250 points (or approximately 64% of your overall grade). Exams will cover material from both the textbook and class. Exams will be noncumulative, i.e., they will test only the material covered in a specific segment of the course.

GRADING: Grades will be assigned as followed:

- 378 – 390 = A+
- 362 – 378 = A
- 351 – 362 = A-
- 339 – 351 = B+
- 323 – 339 = B
- 312 – 323 = B-
- 300 – 312 = C+
- 284 – 300 = C
- 273 – 284 = C-
- 261 – 273 = D+
- 245 – 261 = D
- 234 – 245 = D-
- Below 234 = F

COURSE SCHEDULE			
WEEK	DATE	TOPIC	ASSIGNMENT
1	1.11.06 1.13.06	Introduction to Statistics Measures of Central Tendency	Read chapter 1
2	1.16.06 1.18.06 1.20.06	NO CLASS (MARTIN LUTHER KING JR DAY) Measures of Dispersion Problem Set 1 (material from weeks 1 & 2); Last Day to Add/Drop	Read chapter 2
3	1.23.06 1.25.06 1.27.06	Frequency Distributions Graphing Data Problem Set 2 (material from week 3)	Read chapter 3
4	1.30.06 2.1.06 2.3.06	Probability Probability Problem Set 3 (material from week 4)	
5	2.6.06 2.8.06 2.10.06	Standard Scores & z Scores Exam 1 (material from weeks 1-4) The Normal Curve	Read chapter 4
6	2.13.06 2.15.06 2.17.06	The Normal Curve Sampling Sampling	Read chapter 5
7	2.20.06 2.22.06 2.24.06	Problem Set 4 (material from weeks 5 & 6) Hypothesis Testing Hypothesis Testing	Read chapter 9
8	2.27.06 3.1.06 3.3.06	Confidence Intervals Problem Set 5 (material from weeks 7 & 8); Last Day to Withdraw w/ "W" Exam 2 (weeks 5-8)	Read chapter 6
9	3.6.06 3.8.06 3.10.06	NO CLASS (SPRING BREAK) NO CLASS (SPRING BREAK) NO CLASS (SPRING BREAK)	
10	3.13.06 3.15.06 3.17.06	Intro to t-tests Single Sample t-tests t-Test for Independent Samples	Read chapters 7 & 8
11	3.20.06 3.22.06 3.24.06	t-Test for Dependent/Related Samples Problem Set 6 (material from weeks 10 & 11) Intro to ANOVA's	
12	3.27.06 3.29.06 3.31.06	Exam 3 (weeks 10 & 11) Between-Subjects ANOVA's Post Hoc Comparisons	Read chapter 10
13	4.3.06 4.5.06 4.7.06	Repeated Measures ANOVA's, 2-Way ANOVA's 2-Way ANOVA's	
14	4.10.06 4.12.06 4.14.06	Problem Set 7 (material from weeks 12 & 13) Exam 4 (weeks 12-14) NO CLASS (EASTER BREAK)	
15	4.17.06 4.19.06 4.21.06	Correlations Regression Problem Set 8 (material from week 15)	Read chapter 12
16	4.24.06 4.26.06 4.28.06	Chi Square Test for Goodness of Fit Chi Square Test for Independence Problem Set 9 (material from week 16)	Read chapter 11
17	5.1.06 5.3.06	Wrap-Up & Review; <i>Last Day of Classes</i> Final Exam: Exam 5 (material from weeks 15-17); 8:00-11:00am	