

JAN. 17 2002

**PSYCHOLOGY 2110 (A3)
STATISTICAL METHODS FOR PSYCHOLOGICAL RESEARCH**

A308 Winter 2002

Instructor: Dr. Connie Korpan
Office: C209
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Textbook: Gravetter, Frederick & Wallnau, Larry (2000). Statistics for the Behavioral Sciences. Wadworth Thomson Learning.

There is also a study guide for this book, if you wish to purchase it.

Prerequisite: PY1040 and Math 30, or consent of the instructor.

Course Description

The course is designed to introduce students to statistical methods which are used by behavioral scientists (as well as scientists in other disciplines) as they analyze and draw conclusions from research data. Special emphasis will be placed upon psychological investigations, but other disciplines will also be used on occasion.

The statistical techniques examined will involve tabular and graphic summarization of data, as well as numerical descriptions of averages, variability, and measures of relationships. We will review basic probability along with careful examination of theoretical distributions and statistical tests. You will also be introduced to SPSS for Windows.

Course Objectives

If successful, you will be able to perform some elementary analysis of research data and to interpret the results of statistical tests. You will have demonstrated a conceptual knowledge of the concepts and principles involved. You will be able to interpret the results of various statistical tests and to judge when the use of particular statistical tests are appropriate. In addition, you will be able to enter and analyze data onto the computer using SPSS.

Tentative Timetable

<u>Date</u>	<u>Text</u>
Jan 9	Chapter 1 (introduction)
Jan 16	Chapter 2 (frequency distribution) & Chapter 3 (central tendency)
Jan 23	Chapter 4 (variability)
Jan 30	Exam 1 (Chapters 1, 2, 3, 4)
Jan 30	Chapter 5 (z-scores)
Feb 6	Chapter 6 (probability) & Chapter 7 (probability and samples)
Feb 13	Chapter 8 (hypothesis testing)
Feb 20	Chapter 9 (introduction to the t-statistic)
March 6	Exam 2 (Chapters 5, 6, 7, 8, 9)
March 6	Chapter 10 (hypothesis test with independent samples)
March 13	Chapter 12 (confidence intervals)
March 20	Chapter 13 (introduction to ANOVA)
March 27	Chapter 15 (ANOVA: 2-factor)
April 3	Chapter 16 (correlation and regression)
April 10	Exam 3 (Chapters 10, 12, 13, 15, 16)

Grading

Exam 1	10%
Exam 2	15%
Exam 3	15%
Homework assignments	15%
Computer assignments	15%
Final Exam	30%

Homework assignments from the text and computer assignments will be assigned in class. Late assignments will be deducted by 10% per day. If the assignment is more than 5 days late, it will not be marked. Each student is allowed no more than 2 late assignments. Messy assignments will not be marked.

Grade	Percentage	Comment
9	90 - 100%	
8	80 - 89%	<u>Excellent</u>
7	72 - 79%	
6	65 - 71%	<u>Good</u>
5	57 - 64%	
4	50 - 56%	<u>Pass</u>
3	45 - 49%	Fail
2	26 - 44%	Fail
1	0 - 25%	Fail

Student Responsibilities

Independent learning is a valuable skill that instructors at Grande Prairie Regional College wish to foster in their students. For this reason, you are held accountable for all lecture materials and readings. It is your responsibility to keep up with class work. For example, you are expected to attend all lectures. When absent from class, missed material is to be obtained by approaching a fellow student (not the instructor). Also, you are expected to prepare for each lecture by reading the assigned chapters and handouts. Students who prepare for lectures learn and perform much better than students who do not prepare.

Although the instructor feels that all the material in the text book is important and interesting, limited class time prevents discussion of all the material. You are responsible for learning the material not discussed in class. Please feel free to approach me outside of class if you wish to get clarification on this material.

If you miss any of the exams due to illness, a physician's note must be provided. If a physician's note is provided, the weight of that exam will be transferred to the final exam. If a note is not provided, a grade of 0% will be assigned to that exam. You are expected to inform me that you will miss the exam before the exam (if possible). Voice mail is available 24 hours a day. If the final exam is missed due to illness, you will also be required to submit an application to the Registrar's office for permission to write a deferred exam (Please see the College Calendar, p 33). You may defer the final exam for up to 20 days of the end of the examination period.

If you wish to withdraw from this course, you must do so by **March 8, 2002**. Withdraw from the course after March 8th may result in an failing grade because a mark of 0% will be assigned to the incomplete portion of the course work.

Other Important Dates

Jan 7	Last day to add winter courses
Jan 11	Last day to drop courses without paying tuition for the dropped courses
Jan 18	Last day to write deferred (final) exams or repeat final exams for fall courses
Feb 18	Family Day--no classes
Feb 25-Mar 1	Winter Break--no classes
Mar 8	Last day to withdraw or change from credit to audit
Mar 29	Good Friday--no classes
April 12	Last day of classes