

Psychology 387-317 Elementary Statistics/Statistics Laboratory
4 credit hours, Fall 2008

Psy 387.01 TuTh 08:00-09:20

Psy 387.02 TuTh 12:30-01:50

Psy 317.01 Mon 03:00-04:50

Psy 317.02 Tue 05:00-06:50

Psy 317.03 Wed 03:00-04:50

Psy 317.04 Thu 05:00-06:50

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Office Hours Tuesday-Thursday 10-11 Monday Wednesday 12-1

Other by Appointment

Chinese Proverb

I HEAR, AND I FORGET

I SEE, AND I REMEMBER

I DO, AND I UNDERSTAND

In Psychology 387/317 we will do it and you will understand it.

TEXT: Text:

Gravetter and Wallnau (2007), Statistics for the Behavioral Sciences, 7th ed. (required)

Gravetter and Wallnau, Study Guide (recommended)

Rosenberg, K. (2007) The Excel Statistics Companion –CD-ROM and Manual (required)

Selected Readings: Selected research articles will be assigned to supplement the chapters.

Course Description - PSY 378/317. This course is a study of statistics as applied to psychology. It includes frequency functions, summary statistics, correlation and tests of significance. The laboratory is designed to assist students in mastery of computation and interpretation.

You must be registered for both Dr. Kordinak' Psychology 387 and 317. Dr. Kordinak's name must be listed as instructor for the class and the laboratory. If you are registered for a section other than Dr. Kordinak's, you must either drop the course or register for both Dr. Kordinak's classes and laboratory.

PURPOSE OF THE COURSE: Many psychology majors wonder why they should have to take statistics. They chose psychology because they wanted to understand themselves better and, perhaps, because they wanted to help others. However, it is important to understand that psychology regards itself as a science, that is, a research based discipline. What we know about such topics as personality, depression, learning, development, abnormal behavior, forensic, and other such psychological topics, we know because psychologists have gathered data, analyzed it, drawn conclusions and published their work in journals. In order to understand your discipline, you must have at least a basic working knowledge of statistical analysis. Therefore, the following are the course goals along with their associated learning outcomes:

Course Objectives, the student will:

Goal: Gaining factual knowledge in the area of statistical analysis (terminology, classifications, method, trends)

Learning outcome: you will know how to compute and use statistics which summarize central tendency and variability, compute and use statistics to make inferential decision.

Learning outcome: you will understand and use the basic terminology employed in statistical analysis.

Learning outcome: you will understand the concepts which underlie a statistical hypothesis test

Learning outcome: you will know how to use MS-Excel to compute and use statistics which summarized central tendency and variability, compute and use statistics to make inferential decision.

Goal: Learning fundamental principles of statistical analysis

Learning outcome: you will be able to recognize basic research designs and determine the appropriate statistic for each design.

Learning outcome: you will know how to compute a test statistic and use it to make a decision about a research problem.

Goal: Learning to apply the outcomes of statistical analyses (to improve thinking, problem solving, and decisions)

Learning outcome: you will be able to use your statistical decision to discuss the issues posed by the research problem.

Learning outcome: you will know what kinds of recommendations can be made as a result of your analysis.

With the modification of graduation requirements for the undergraduate degree from 128 to 120 hours, the Psychology Department is not requiring the completion of a Computer Science course. The State of Texas requires the University to demonstrate computer competency for graduation. The Psychology Department has chosen Psychology 387/317 to be used to demonstrate computer competency. We will learn to use MS Excel, Word, email, and the internet, to manage data, to do analysis, to do graphic representation, and to present the material in a report format.

Learning Activities; Learning occurs best when students are active in that process. To that end, the laboratory for this course has been designed to give you many opportunities to apply what you learned in the lecture. Each week you will have laboratory assignments that challenge you not only to compute statistics, but also to apply those statistics to research problems and to interpret the outcomes. These laboratory assignments will require you to think critically about the decision-making process and its application to real-world issues.

Instructional Format: Lectures and class discussion.

Attendance Policy: Regular and punctual class attendance is expected. A record of student's attendance will be kept. If a student misses **four classes (equivalent of two weeks of school)**, the maximum grade they can receive is "C". If a student misses **six classes (equivalent of 3 weeks of school)**, the student should drop the class, maximum grade they can receive is "D". If a student misses more than **seven classes, they will receive an "F" for the course.**

Dropping the Course: It is the student's responsibility to do the paper work to drop the course. If the student stops attending class and does not officially drop the course he/she will receive an "F" for the course. The deadline for dropping a course without an "F" is December 11, 2008

Instructor Evaluations: Students will be asked to complete a course/instructor evaluation form toward the end of the semester.

Grade: A Percentage method of grading will be used. The computation of the percentage will be based total points. The resulting percentage will be interpreted using the following criteria:

Grade	Percentage		
A	.9000	-	1.0000
B	.8000	-	.8999
C	.6000	-	.7999
D	.5000	-	.5999
F	.0000	-	.4999

Examinations: There will be four chapter examination scheduled (multiple-choice, short essay examinations, and computations), a Laboratory Midterm, a Laboratory Final, and a Comprehensive final. Make-up examinations for the above listed measures will be essays and computations. There will also be pop-quizzes and homework assignments.

See below for missed pop quizzes and homework assignments.

Missed Examination: If you miss an exam, please see me as soon as possible to let me know your reason for missing it. **THE EXCUSE MUST BE WRITTEN AND APPROPRIATELY DOCUMENTED (Written note from the attending M.D.). AN EXCUSE THAT DOES NOT WITHSTAND VERIFICATION WILL RESULT IN A GRADE OF ZERO FOR THAT EXAM.** If you do have a valid excuse, then be prepared to take a make-up exam immediately. Having another test the same day does not count as a good reason for missing an exam. **All make-up examination will be essay.**

Missed Pop-Quizzes: If you miss a pop-quiz, it cannot be made up. You will be allowed to miss one (1) pop-quiz. If you take all pop-quizzes, I will drop you lowest grade in the computation for your pop-quiz total grade. If you miss one (1) quiz, that quiz will count as your dropped quiz. If you miss more than one (1) quiz, I will drop one (1) and you will receive a grade of zero (.00) for the remaining missed pop quizzes.

Missed Homework Assignments: If you fail to hand in a homework assignment when it is due, it cannot be handed in late. Homework is due at the beginning of the class. Homework turned in during the class or at the end of class will not be accepted. You will be allowed to miss one (1) homework assignment. If you hand-in all homework assignments, I will drop you lowest grade in the computation for your homework final grade. If you miss one (1) homework assignment, that homework assignment will count as your dropped assignment. If you miss more than one (1) homework assignment, I will drop one (1) and you will receive a grade of zero (.00) for the remaining missed homework assignments.

Arriving Late for an Examination: If you arrive late for an examination and a member of the class has finished the exam and left the room, you will be given an essay examine. If you arrive late for an examination you will not be given extra time to finish the exam.

No leaving the classroom once the test is distributed, if you have to leave the room your test is completed.

E-Mail – E-Mail pertaining to class will be answered during the next class period.

Grades: Your final grade is based solely upon the following criterion. There are no extra credit provisions under any circumstances. Because the lab is designed as an aid in learning the material presented in class, the laboratory grades will be a combined with the class grades producing one grade for both class and lab.

Final Grade			
Part I [66% of the Final Grade based on (each component is equally weighted)]			
	Component	Subcomponent	Weight
	Test 1	Chapter 1-4	.11
	Test 2	Chapter 5-7	.11
	Test 3	Chapter 8-11	.11
	Test4	Chapter 13,16,& 18	.11
	Laboratory Grade	(1/3 Laboratory Mid-Term Grade 1/3 Laboratory Final Exam Grade 1/3 Laboratory Assignments	.11
	Classroom Assignments	(1/2 Homework assignments and 1/2 Pop Quizzes)	.11
Chapter Exams, Laboratory, & Class Assign Contribution			.66
Part II – [34% of the Final Grade based on]			
	Component	Subcomponent	Weight
	Comprehensive Final	Chapter 1-11,13,16,&18	.34
Comprehensive Final Contribution			.34
(Part 1 +Part II) Final Grade for Psy 387/317			1.00

Final Grade: The final grade will be determined by use of the weights used in the Final Grade Worksheet. The Final Grade will be determined by the following percentage. .

Percentage			
A	.9000	–	Above
B	.8000	–	.8999
C	.6000	–	.7999
D	.5000	–	.5999
F	0.000	-	.4999

Final Grade Worksheet						
Part I [66% of the Final Grade based on (each component is equally weighted)]						
	Component	Subcomponent	Weight (Wt.)	Your % Grade	Your % Grade * Wt.	Totals
	Test 1	Chapter 1-4	.11			
	Test 2	Chapter 5-7	.11			
	Test 3	Chapter 8-11	.11			
	Test4	Chapter 13,16,& 18	.11			
	Laboratory Grade	1/3 Laboratory Mid-Term Grade	.0367			
		1/3 Laboratory Final Exam Grade	.0367			
		1/3 Laboratory Assignments	.0366			
	Classroom Assignments	1/2 Pop Quizzes	.055			
		1/2 Homework assignments and	.055			
Part I (Chapter Exams, Laboratory, & Class Assign Contribution)Total						
Part II [34% of the Final Grade based on Comprehensive Final						
	Component	Subcomponent	Weight	Your % Grade	Your % Grade * Wt.	Total
	Comprehensive Final	Chapter 1-11,13,16,&18	.34			
Part 2 (Comprehensive Final Contribution Total)						
(Part I Total + Part 2 Total) FINAL for Psy 387/317						

Standard Policies for Dr. Kordinak's Classes

NOTICE TO PERSONS WITH A DISABILITY:

It is the policy of Sam Houston State University that individuals otherwise qualified shall not be excluded, solely by reason of their disability, from participation in any academic program of the university. Further, they shall not be denied the benefits of these programs nor shall they be subjected to discrimination. Students with disabilities that might affect their academic performance are expected to visit with the Office of Services for Students with Disabilities located in the Counseling Center. They should then make arrangements with their individual instructors so that appropriate strategies can be considered and helpful procedures can be developed to ensure that participation and achievement opportunities are not impaired.

SHSU adheres to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations for students with disabilities. If the student has a disability that may affect adversely their work in this class, then he or she needs to register with the SHSU Counseling Center and to talk with the instructor about how they can best be helped. All disclosures of disabilities will be kept strictly confidential. NOTE: no accommodation can be made until the student registers with the Counseling Center. There will be no retroactive accommodations.

Students with a disability will be graded on the same criteria as non-disabled students.

ACADEMIC DISHONESTY:

In accordance with the University's Academic Policy Statement 810213, the following statement applies to all students in my classes:

All students are expected to engage in all academic pursuits in a manner that is above reproach. Students are expected to maintain complete honesty and integrity in the academic experiences both in and out of the classroom. Any student found guilty of dishonesty in any phase of academic work will be subject to disciplinary action. The University and its official representatives may initiate disciplinary proceedings against a student accused of any form of academic dishonesty including, but not limited to, cheating on an examination or other academic work which is to be submitted, plagiarism, collusion, and the abuse of resource materials.

Cheating is unethical, dishonest, and fraudulent. Cheating is not tolerated in this class and will result in the immediate failure of this course ("F" Grade). The incident will be reported to the Dean of the College of Humanities & Social Sciences for further disposition.

CLASSROOM RULES OF CONDUCT:

Students are expected to assist in maintaining a classroom environment that is conducive to learning. Students therefore must refrain from behavior in the classroom that intentionally or unintentionally disrupts the learning process and, thus, impedes the mission of the university. **Cellular phones, pagers, and music players (for example, iPod-type devices) must be turned off and earphones removed before class begins.** Students are prohibited from using tobacco products, making offensive remarks, reading newspapers, talking at inappropriate times, or engaging in any other form of distraction. Both men and women must remove hats, caps, and other head

covers during exams. **Tape recording is not permitted in the class. Laptop computer use is not permitted in the class.** Inappropriate behavior in the classroom shall result in a directive to leave class. Students who are especially disruptive also may be reported to the Dean of Students for disciplinary action in accordance with university policy.

VISITORS IN THE CLASSROOM:

Visitors are not permitted.

STUDENT ABSENCES ON RELIGIOUS HOLY DAYS:

Section 51.911(b) of the Texas Education Code requires that an institution of higher education excuse a student from attending classes or other required activities, including examinations, for the observance of a religious holy day, including travel for that purpose. Section 51.911(a)(2) defines religious holy days as: "a holy day observed by a religion whose places of worship are exempt from property taxation under Section 11.20, Tax Code.

A student whose absence is excused under this subsection may not be penalized for that absence and shall be allowed to take an examination or complete an assignment from which the student is excused within a reasonable time after the absence.

University policy 861001 provides the procedures to be followed by the student and instructor. A student desiring to absent himself/herself from a scheduled class in order to observe (a) religious holy day(s) shall present to each instructor involved a written statement concerning the religious holy day(s). The instructor will notify the student of a reasonable timeframe in which the missed assignments and/or examinations are to be completed.

Week of	Tentative Topic	Chapter	Lab	Excel
Aug 25	Introduction to Statistics	1		
Sept 01	Frequency Distributions	2	1	F1:1
Sept 08	Central Tendency	3	2	F1:2-4
Sept 15	Variability	4	3	F1:5
Sept 22	Test 1 & Z-Scores	5	4	
Sept 29	Z-Scores	5		F2:1-2
Oct 06	Probability & Probability and Sample: The Distribution of Sample Means	6 & 7	5	F5:1-2
Oct 13	Test 2 & Introduction to Hypothesis Testing	8		
Oct 20	Introduction to the t Statistics	9	Exam	
Oct 27	The t Test for Two Independent Samples	10	6	F6:1-3
Nov 03	The t Test for Two Related Samples	11	7	F7:1-5
Nov 10	Test 3 & Correlation	16		
Nov 17	Correlation		8	F3:1-5
Nov 24	Chi-Square Statistics & Thanksgiving	18		
Dec 01	Introduction to Analysis of Variance	13	Exam	
Dec 08	Test 4 & Review			F8:1-3
Dec 15	Comprehensive Final			

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Psychology 387/317
Fall 2008
Dr. S. T. Kordinak

I, _____ have read the syllabus
for
(Print your name)

Psychology 387/317 and have been given an opportunity to ask the Professor questions about any portion of the syllabus that I do not fully understand. At this time, I fully understand the course requirements.

Your Signature

Today's Date

Day Time Phone Number: _____

E Mail Address (the one you use) _____