University of North Texas at Dallas
Fall 2016
SYLLABUS

PSYC 3210 (001): Statistics in Psychology; 3 Hrs

Department of	Sociology & Psychology	School of	Liberal Arts & Sciences

Instructor Name:	Mario P. Casa de Calvo, Ph.D.
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Office Hours:	MW from 1-3; TTR from 10-Noon; by appointment

Classroom Location:	DAL2 212
Class Meeting Days & Times:	MW 10:00am-11:20am

Course Catalog Description:	This course covers the principles and concepts for the use of statistics in the social and behavioral sciences. It will cover descriptive statistics, inferential statistics, and sampling, such as measures of central tendency, t-tests, linear regression, simple random sampling, and stratified sampling.

Prerequisites:	**PSYC 3200**
Required Text:	**Levin, J., Fox, J.A., & Forde, D. R. (2010). Elementary Statistics in Social Research (11th Edition). Boston, MA: Allyn and Bacon. ISBN: 9780205570690** ***Note: if you have a different edition of the text please notify me to make sure that your text will satisfy the requirements of the course** ****I will provide all other reading material in advance either electronically or in hardcopy in class** **On Readings in General:** **• You are responsible for completing the readings for the day they are assigned and come to class prepared to discuss them.**

Access to Learning Resources:	UNT Dallas Library: (Founders Hall)
	     phone: (972) 780-1616
	     web: http://www.untdallas.edu/library
	     e-mail: Library@untdallas.edu
	UNT Dallas Bookstore: (Building 1)
	     phone: (972) 780-3652
	     web: http://www.untdallas.edu/bookstore
	     e-mail: untdallas@bkstr.com

Course Goals or Overview: The goals of this course are as follows -

1. Students will be able to describe key concepts, principles, and overarching themes in psychology, and will be able to describe applications of psychology.
2. Students will be able to use scientific reasoning to interpret psychological phenomena, engage in innovative and integrative thinking and problem solving, and interpret, design, and conduct basic psychological research.

Learning Objectives/Outcomes: At the end of this course, learners will be able to:

1	Compute and understand the measures of central tendency and variability.
2	Understand and compute inferential statistical measures.
3	Understand and compute various measures of associations.
4	Demonstrate an understanding of the basic principles of linear modeling in Analysis of Variance and regression.
5	Demonstrate critical thinking skills.
6	Apply Humanistic principles to group-centered, intellectual exchanges and tasks.

Course Outline
This schedule is subject to change by the instructor. Any changes to this schedule will be communicated in class.

Week-by-Week Course Outline
Week 1: August 22-24
      Topics:1. Introduction to the course
           2. Preview of some mathematical rules
      Reading: Levin & Fox, Chapter 1

Week 2: August 29-31
      Topics:1. Research methods and measurement scale
           2. Frequency distribution of nominal data
      Reading: Levin & Fox, Chapters 1 & 2

Week 3: **September 5 (no class)**; September 7
      Topics:1. Proportions, percentages, rates and ratios
           2. Frequency distribution of ordinal and interval data
      Reading: Levin & Fox, Chapter 2
      Homework: Assignment # 1 is given.

Week 4: September 12-14
      Topics:1. Cross-tabulation and graphic presentation
           2. Central tendency
      Reading: Levin & Fox, Chapter 2 & 3
      Homework: Assignment # 1 is due.

Week 5: September 19-21
      Topics:1. The concept and measures of variability
           2. Computation of standard variation
      Reading: Levin & Fox, Chapter 4
      Homework: Assignment # 2 is given.

Week 6: September 26-28
      Topics:1. Central tendency and variability reviewed
           2. Basics of probability theory
           3. The concept of normal distribution
      Homework: Assignment # 2 is due.
      Exam I: Chapter 1-4 and class notes.

Week 7: October 3-5
      Topics:1. Basics of probability theory (2)
           2. The application of normal distribution
      Reading: Levin & Fox, Chapter 5
      Homework: Assignment # 3 is given.

Week 8: October 10-12
      Topics:1. Population and sample: The concept of sampling
           2. The theory of probability sampling
      Reading: Levin & Fox, Chapter 6
      Homework: Assignment # 3 is due.

Week 9: October 17-19
Topics:1. The use of normal distribution in probability sampling
    2. Hypotheses and levels of significance
    3. Hypothesis testing: Differences between means
  Reading: Levin & Fox, Chapter 6 & 7
  Homework: Assignment # 4 is given.

Week 10: October 24-26
  Topics:1. Procedures of hypothesis testing
    2. Hypotheses and levels of significance
    3. Hypothesis testing: Differences between means
  Reading: Levin & Fox, Chapter 7
  Homework: Assignment # 4 is due.

Week 11: October 31-November 2
  Topics:1. Analysis of Variance: Logic
    2. Analysis of Variance: Procedures
    3. Analysis of Variance: Practice
  Reading: Levin & Fox, Chapter 8
  Homework: Assignment # 5 is given.

Week 12: November 7-9
  Topics:1. Analysis of Variance: Summary
    2. Nonparametric test of significance: Chi-square test
  Reading: Levin & Fox, Chapters 8 & 9
  Homework: Assignment # 5 is due.
  Exam II: Chapter 5 – 8 and class notes.

Week 13: November 14-16
  Topics:1. The concept of correlation
    2. The computation of correlation
    3. Regression: The basic concepts
    4. Regression: The model
  Reading: Levin & Fox, Chapters 9 & 10
  Homework: Assignment # 6 is given.

Week 14: November 21 (**NO CLASS ON 11/23 – THANKSGIVING**)
  Topics:1. Regression: The interpretation
  Reading: Levin & Fox, Chapter 11

Week 15: November 28-30
  Topics:1. Regression (Continued): The application
  Reading: Levin & Fox, Chapter 11
  Homework: Assignment # 6 is due.

Week 16: December 5
  Review Session

Exam III (Final): TBD

Course Evaluation Methods

Course Requirements and Evaluation

You are required to attend class on a regular basis, complete homework assignments on time, and take in-class examinations. There will be six (6) homework assignments, and three (3) in-class exams.

Please note that for both homework assignments and in-class exams, you need to have a quality scientific calculator.

For homework assignments, there will be roughly one assignment every two weeks. Each time an assignment is given, you are to turn in the finished homework within one week, as we will discuss the assignment in detail in class. **Promptness and performance** are the two main factors that determine your grade on homework assignments.

For in-class examinations, the first two exams will NOT be cumulative. However, approximately 25% of the third (final) exam may consist of general items found throughout the course. The exams will consist of both multiple choice and problem-solving questions.

Grading Matrix:

Instrument	Value (points or percentages)	Total
Homework Assignments	6 assignments worth approximately 20 points each	120
Exams	3 exams at 100 points each	300
In-Class Participation	Group Discussions, Group Activities, etc.	50
Total:	100%	470

Grade Determination
A = 423 – 470 pts; i.e., 90% or better
B = 376 – 422 pts; i.e., 80 – 89 %
C = 329 – 375 pts; i.e., 70 – 79 %
D = 282 – 328 pts; i.e., 60 – 69 %
F = 281 pts or below; i.e., less than 60%

University Policies and Procedures

Students with Disabilities (ADA Compliance):

The University of North Texas at Dallas makes reasonable academic accommodation for students with disabilities. Students seeking accommodations must first register with the Disability Services Office (DSO) to verify their eligibility. If a disability is verified, the DSO will provide you with an accommodation letter to be delivered to faculty to begin a private discussion regarding your specific needs in a course. You may request accommodations at any time, however, DSO notices of accommodation should be provided as early as possible in the semester to avoid any delay in implementation. Note that students must obtain a new letter of accommodation for every semester and must meet/communicate with each faculty member prior to implementation in each class. Students are strongly encouraged to deliver letters of accommodation during faculty office hours or by appointment. Faculty members have the authority to ask students to discuss such letters during their designated office hours to protect the privacy of the student. For additional information see the Disability Services Office website at http://www.untdallas.edu/disability. You may also contact them by phone at 972-338-1777; by email at UNTDdisability@untdallas.edu or at Founders Hall, room 204. (UNTD Policy 7.004)

CourseEval Policy:

Student's evaluations of teaching effectiveness is a requirement for all organized classes at UNT Dallas. This short survey will be made available to you at the end of the semester, providing you a chance to comment on how this class is taught. I am very interested in the feedback I get from students, as I work to continually improve my teaching. I consider students' evaluations to be an important part of your participation in this class.

Assignment Policy:

No extensions are given, unless a legitimate excuse is received well before the due date. For illness or injury a doctor's note is required. An unexcused late assignment will result in an automatic 10 point deduction and an additional 5 point deduction for each day after that.

Exam Policy:
Exams should be taken as scheduled. No makeup examinations will be allowed except for documented emergencies (See Student Handbook). Note: If you come in late for an exam and another student has already turned in a completed exam, you cannot take the regular exam.

Academic Integrity:
Academic integrity is a hallmark of higher education. You are expected to abide by the University's code of Academic Integrity policy. Any person suspected of academic dishonesty (i.e., cheating or plagiarism) will be handled in accordance with the University's policies and procedures. Refer to the Student Code of Academic Integrity (Policy 7.002) at http://www.untdallas.edu/sites/default/files/page_level2/pdf/policy/7.002%20Code%20of%20Academic_Integrity.pdfRefer to the Student Code of Student Rights, Responsibilities and Conduct at http://www.untdallas.edu/sites/default/files/page_level2/hds0041/pdf/7_001_student_code_of_conduct_may_2014.pdf Academic dishonesty includes, but is not limited to, cheating, plagiarizing, fabrication of information or citations, facilitating acts of dishonesty by others, having unauthorized possession of examinations, submitting work of another person or work previously used without informing the instructor, or tampering with the academic work of other students. In addition, all academic work turned in for this class, including exams, papers and written assignments must include the following statement: "*On my honor, I have not given, nor received, nor witnessed any unauthorized assistance that violates the UNTD Academic Integrity Policy*."

Bad Weather Policy:
Campus facilities will close and operations will be suspended when adverse weather and/or safety hazards exist on the UNTD campus or if travel to the campus is deemed dangerous as the result of ice, sleet or snow. In the event of a campus closure, the Marketing and Communication Department will report closure information to all appropriate major media by 7 a.m. That department will also update the UNTD website, Facebook and Twitter with closing information as soon as it is possible. For more information please refer to http://www.untdallas.edu/police/resources/notifications

Classroom Policies
1. Since discussion is an essential part of this course, please come to class prepared and on time.

2. Please turn off your cell phones and pagers.

3. Do not come into class late or leave early.

4. You are responsible for tracking your own grade progress (see course requirements and grading scheme to help you keep track of available points). If you have questions about your grade come to office hours, make an appointment, or contact me via email. Do not make specific inquiries about your grade in class.

5. No late work will be accepted unless you have a valid, documented excuse (documented illness or death in the family). If you miss an assignment and you have a valid, documented excuse, notify me as soon as possible via phone or email so we can arrange a reasonable time for you to make up the missed assignment.

6. All work must be turned in during class. I will not accept emailed work unless you have a valid, documented excuse.

Attendance and Participation Policy:
The University attendance policy is in effect for this course. Class attendance and participation is expected because the class is designed as a shared learning experience, and because essential information not in the textbook will be discussed in class. The dynamic and intensive nature of this course makes it impossible for students to make-up or receive credit for missed classes. Attendance and participation in all class meetings is essential to the integration of course material and your ability to demonstrate proficiency. Students are responsible for notifying the instructor if they will be missing class, and they must share their reason for missing class. Students are also responsible for making up any work covered in class. It is recommended that each student coordinate with a student colleague to obtain a copy of the class notes if class is missed.

To get the most out of this class your attendance is required.

• Students are expected to attend all scheduled meetings of this class. Students are also expected to be on time for all scheduled class meetings. Students who come to class late will be counted as absent. **After 3 absences, 5 overall points will be deducted for every class period missed.**
• If you have a documented excuse for your absence let me know as soon as possible and bring it to class. A valid, documented excuse consists of a doctor's note documenting your illness or death in the family.

Diversity/Tolerance Policy:
Students are encouraged to contribute their perspectives and insights to class discussions. However, offensive and inappropriate language (swearing) and remarks offensive to others of particular nationalities, ethnic groups, sexual preferences, religious groups, genders, or other ascribed statuses will not be tolerated. Disruptions which violate the Code of Student Conduct will be referred to the Dean of Students as the instructor deems appropriate. (UNTD Policy 7.001)

 *I reserve the right to alter the content of this syllabus at any time.