

PSY 708: Graduate Statistics for Psychology I

University of Nevada, Las Vegas

Fall 2021

Class Meeting Schedule:

Location: CBC B135

Meeting Times: TTh 1:00 PM – 2:15 PM

Contact Information:

Instructor: Kris Gunawan, Ph.D.

Office: CBC B345

Phone: 702-895-5591

Email: kris.gunawan@unlv.edu

Office Hour: Available upon appointment

Course Objective:

This is the first of a two-part course in graduate statistics. In this course, graduate students develop an understanding of the basic theoretical foundation of statistics and learn various methods, such as z-test, chi-square, correlation, regression, *t*-test, and ANOVA. This course involves learning how to use a statistical software and is intended for graduate students to put into practice the statistical methods potentially used in their thesis, dissertation, and research publications.

Learning Outcomes:

- To understand and apply the statistical knowledge to perform empirical research.
- To analyze, interpret, and report statistics based on different research designs.
- To become familiar with a statistical software called SPSS.
- To prepare graduate students for more advanced statistical methods in PSY 709.

Required Material:

Statistical Programs: SPSS*

* SPSS is available on campus and through UNLV's website for free. Click on this [link](#).

Note: You must be a UNLV student to access the software.

Recommended Material (not required for class but a useful reference):

Field, A. (2018). *Discovering statistics using IBM SPSS statistics: North American edition* (5th ed.). SAGE Publications. (ISBN-13: 978-1526436566; ISBN-10: 1526436566)

Attendance:

This class will involve discussions on various statistical theories and methods. The purpose of the in-class lectures and computer lab activities is to help graduate students get a better grasp of the subject. It is crucial that students come to class to enhance their learning experience; however, please do not come to class if you are sick. If you are sick, I will work with you individually so that you do not fall behind. If you have been given permission for accommodation, please contact me as soon as possible. Students are encouraged to ask questions if they need clarification with any of the topics being lectured.

Assignments:

There will be 9 assignments given throughout the semester so that students can apply the statistical knowledge discussed in class. They will typically be due a week after the assignment has been given. Each assignment will be worth 10 points each, a total of 90 points. Any late submissions will result in a 3-point deduction which does not include the additional errors that might be penalized on the assignment. Although you may work with your classmates on the assignments, please make sure that you understand the concepts and procedures on your own. At times, these assignments will help to build on other future assignments.

Quizzes:

There will be 9 quizzes based on the lectures given in class. Students will be notified of what the quizzes will be one week in advance. Each quiz is worth 10 points each, a total of 90 points. There are NO MAKEUP QUIZZES except for legitimate emergencies with documentation.

Exams:

There will be two exams throughout the semester – a midterm and a final exam. Each exam will be worth 100 points (200 points total). There are NO MAKEUP EXAMS except for legitimate emergencies with documentation.

Course Grading:

This table shows the grading criteria for assignments, quizzes, and exams.

Activity	Points (Percent for Overall Grade)
Assignments (9 X 10 pts.)	90 pts. (23.7%)
Quizzes (9 X 10 pts.)	90 pts. (23.7%)
Exams (2 X 100 pts.)	200 pts. (52.6%)
Total	380 pts. (100%)

Grading Rubric:

This table represents the percent range and letter grade for the course.

Percent Range	Grade
100.00% - 93.00%	A
92.99% - 90.00%	A-
89.99% - 88.00%	B+
87.99% - 83.00%	B
82.99% - 80.00%	B-
79.99% - 78.00%	C+
77.99% - 73.00%	C
72.99% - 70.00%	C-
69.99% - 68.00%	D+
67.99% - 63.00%	D
62.99% - 60.00%	D-
59.99% - 0.00%	F

Tentative Course Schedule

This table shows the topics being covered for each week of the semester.

Week	Date	Topic
1	T 8/24	Introduction / Overview
	Th 8/26	The Research Process
2	T 8/31	The Research Process
	Th 9/2	Statistical Theory
3	T 9/7	Statistical Theory
	Th 9/9	Current Approach in Statistics
4	T 9/14	Assumptions
	Th 9/16	Outliers / Missing Data / Unequal Sample Sizes
5	T 9/21	Outliers / Missing Data / Unequal Sample Sizes
	Th 9/23	Effect Sizes and Statistical Power
6	T 9/28	Pearson's Chi-Square & Fisher's Exact Test
	Th 9/30	Pearson's Chi-Square & Fisher's Exact Test
7	T 10/5	Exploring Data with Graphs
	Th 10/7	Exploring Data with Graphs
8	T 10/12	Review for Midterm
	Th 10/14	Midterm
9	T 10/19	Correlation
	Th 10/21	Correlation
10	T 10/26	Linear Regression
	Th 10/28	Linear Regression
11	T 11/2	<i>t</i> -Tests
	Th 11/4	<i>t</i> -Tests
12	T 11/9	Veteran's Day – No Class
	Th 11/11	One Way Between-Subjects ANOVA
13	T 11/16	One Way Between-Subjects ANOVA
	Th 11/18	ANCOVA
14	T 11/23	ANCOVA
	Th 11/25	Thanksgiving Break – No Class
15	T 11/30	One Way Within-Subjects ANOVA
	Th 12/2	One Way Within-Subjects ANOVA
16	T 12/7	Final Exam (1:00 PM – 3:00 PM)

UNIVERSITY POLICIES

Public Health Directives

Face coverings are mandatory for all faculty and students in the classroom. Students must follow all active UNLV public health directives while enrolled in this class. UNLV public health directives are found at [Health Requirements for Returning to Campus](#). Students who do not comply with these directives may be asked to leave the classroom. Refusal to follow the guidelines may result in further disciplinary action according to the [UNLV Student Conduct Code](#).

Academic Misconduct

Academic integrity is a legitimate concern for every member of the University community. We all share in upholding the fundamental values of honesty, trust, respect, fairness, responsibility, and professionalism. By choosing to join the UNLV community, students accept the expectations of the Student Academic Misconduct Policy, and are encouraged to always take the ethical path whenever faced with choices. Students enrolling at UNLV assume the obligation to conduct themselves in a manner compatible with UNLV's educational mission. An example of academic misconduct is plagiarism. Plagiarism is using the words or ideas of another person, from the Internet or any other source without proper citation of the source(s). See the [Student Conduct Code](#).

Auditing a Course

Auditing a course allows a student to continue attending the lectures and/or laboratories and discussion sessions associated with the course, but the student will not earn a grade for any component of the course. Students who audit a course receive the same educational experience as students taking the course for a grade, but will be excused from exams, assessments, and other evaluative measures that serve the primary purpose of assigning a grade.

Classroom Conduct

Students have a responsibility to conduct themselves in class and in the libraries in ways that do not interfere with the rights of other students to learn, or of instructors to teach. Use of devices such as cellular phones and pagers, or other potentially disruptive activities are only permitted with the prior explicit consent of the instructor. Students are specifically prohibited to record classes without instructor authorization, including online/remote classes (either audio only, or video and audio). The instructor may rescind permission at any time during the class. If a student does not comply with established requirements or obstructs the functioning of the class, the instructor may initiate an administrative withdrawal of the student from the course.

Since the COVID-19 pandemic forced some instruction to be delivered remotely starting in Spring 2020, numerous students have asked instructors to record their synchronous classes, so that they can access them at their convenience. Instructors who agree to record their classes (audio only, or video and audio) should inform students in advance. Recorded lectures may not be broadly released to anyone, but made available exclusively to those students enrolled in the class during the particular academic term. Recorded lectures must be stored securely, and are subject to the Nevada System of Higher Education's Records Retention Policy, meaning that the recordings can only be deleted 120 days after the end of class (i.e., after grades are posted). Once this requirement is met, the recordings should be deleted. Class recordings are protected from disclosure, as they are deemed part of an educational record under the Family Educational Rights and Privacy Act (FERPA).

Copyright

The University requires all members of the University Community to familiarize themselves with, and to follow copyright and fair use requirements. You are individually and solely responsible for violations of copyright and fair use laws. The University will neither protect nor defend you, nor assume any responsibility for student or employee violations of fair use laws. Violations of copyright laws could subject you to federal and state civil penalties and criminal liability, as well as disciplinary action under University policies. Additional [copyright policy information](#) is available online.

Disability Resource Center (DRC)

The [UNLV Disability Resource Center](https://www.unlv.edu/drc) (Student Services Complex, SSC-A, Room 143, <https://www.unlv.edu/drc>, telephone 702-895-0866) provides resources for students with disabilities. Students who believe that they may need academic accommodations due to a permanent disability, temporary or permanent medical need, or academic support due to pregnancy are encouraged to contact the DRC as early as possible in the academic term. A Disabilities Specialist will discuss what options may be available to you. Students who are already registered with the DRC should request their accommodations online each semester, and make an appointment to discuss their accommodations with their instructors.

Final Examinations

The University requires that final exams given at the end of a course occur on the date and at the time specified in the Final Exam schedule. The Final Exam schedule is typically available at the start of the semester, and the classroom locations are available approximately one month before the end of the semester. See the [Final Exam Schedule](#).

Identity Verification in Online Courses

All UNLV students must use their Campus-issued ACE ID and password to log in to WebCampus-Canvas.

UNLV students enrolled in online or hybrid courses are expected to read and adhere to the [Student Academic Misconduct Policy](#), which states that “acting or attempting to act as a substitute for another, or using or attempting to use a substitute, in any academic evaluation or assignment” is a form of academic misconduct. Intentionally sharing ACE login credentials with another person may be considered an attempt to use a substitute, and could result in investigation and sanctions, as outlined in the Student Academic Misconduct Policy.

UNLV students enrolled in online courses are also expected to read and adhere to the [Acceptable Use of Computing and Information Technology Resources Policy](#), which prohibits sharing university accounts with other persons without authorization.

To the greatest extent possible, all graded assignments and assessments in UNLV online courses should be hosted in WebCampus-Canvas or another UNLV-managed platform that requires ACE login credentials for access.

Incomplete Grades

The grade of “I” (Incomplete) may be granted when a student has satisfactorily completed three-fourths of course work for that semester/session, but cannot complete the last part of the course for reason(s) beyond the student’s control and acceptable to the instructor, and the instructor believes that the student can finish the course without repeating it. For undergraduate courses, the incomplete work must be made up before the end of the following regular semester. Graduate students receiving “I” grades in 500-, 600-, or 700-level courses have up to one calendar year to complete the work, at the discretion of the instructor. If course requirements are not completed within the period indicated, a grade of “F” will be recorded, and the student’s GPA will be adjusted accordingly. Students who are fulfilling an Incomplete grade do not register for the course, but make individual arrangements with the instructor who assigned the “I” grade.

Library Resources

Librarians are available to consult with students on research needs, including developing research topics, finding information, and evaluating sources. To make an appointment with a subject expert for this class, please visit the [Libraries’ Research Consultation](#) website. You can also [ask the library staff](#) questions via chat and text message.

Missed Classwork

Any student missing class, quizzes, examinations, or any other class or laboratory work because of observance of religious holidays will be given an opportunity during that semester to make up the missed work. The make-up opportunity will apply to the religious holiday absence only. It is the responsibility of the student to notify the instructor within the first 14 calendar days of the course for Fall and Spring courses (except for modular courses), or within the first 7 calendar days of the course for Summer and modular courses, of their intention to participate in religious holidays which do not fall on state holidays or periods of class recess. For additional information, please visit the Missed Classwork policy, under Registration Policies, on the [Academic Policies](#) webpage.

In accordance with the policy approved by the Faculty Senate regarding missed class time and assignments, students who represent UNLV in any official extracurricular activity will also have the opportunity to make up assignments, provided that the student submits official written notification to the instructor no less than one week prior to the missed class(es).

The spirit and intent of the policy for missed classwork is to offer fair and equitable assessment opportunities to all students, including those representing the University in extracurricular activities. Instructors should consider, for example, that in courses which offer a “Drop one” option for the lowest assignment, quiz, or exam, assigning the student a grade of zero for an excused absence for extracurricular activity is both contrary to the intent of the Faculty Senate’s policy, and an infringement on the student’s right to complete all work for the course.

This policy will not apply in the event that completing the assignment or administering the examination at an alternate time would impose an undue hardship on the instructor or the University that could be reasonably avoided. There should be a good faith effort by both the instructor and the student to agree to a reasonable resolution. When disagreements regarding this policy arise, decisions can be appealed to the Department Chair/School Director, College/School Dean, and/or the Faculty Senate Academic Standards Committee.

For purposes of definition, extracurricular activities may include, but are not limited to academic recruitment activities, competitive intercollegiate athletics, fine arts activities, liberal arts competitions, science and engineering competitions, and any other event or activity sanctioned by a College/School Dean, and/or by the Executive Vice President and Provost.

Rebelmail

Rebelmail is UNLV's official email system for students and by University policy, instructors and staff should only send emails to students' Rebelmail accounts. Rebelmail is one of the primary ways in which students receive official University communications, information about deadlines, major Campus events, and announcements. All UNLV students receive a Rebelmail account after they have been admitted to the University. Sending emails within WebCampus-Canvas is also acceptable.

Tutoring and Coaching

The Academic Success Center (ASC), at the Claude I. Howard Building, provides tutoring, academic success coaching, and other academic assistance for all UNLV undergraduate students. For information regarding tutoring subjects, tutoring times, and other ASC programs and services, please visit the [ASC website](#) or call 702-895-3177. The ASC is located across from the Student Services Complex (SSC). Academic success coaching is located on the second floor of SSC A, Room 254. Drop-in tutoring is located on the second floor of the Lied Library, and on the second floor of the College of Engineering building (TBE A 207).

UNLV Writing Center

One-on-one or small group assistance with writing is available free of charge to UNLV students at the [Writing Center](#), located in the Central Desert Complex, Building 3, Room 301 (CDC 3-301). Walk-in consultations are sometimes available, but students with appointments receive priority assistance. Students may make appointments in person or by calling the Center, telephone 702-895-3908. Students are requested to bring to their appointments their Rebel ID Card, a copy of the instructions for their assignment, and two copies of any writing they have completed on their assignment.

Diversity Statement

As an institution of higher learning, UNLV represents a rich diversity of human beings among its faculty, staff, and students, and is committed to aspiring to maintain a Campus environment that values that diversity. Accordingly, the University supports understanding and appreciation of all members of its community, regardless of race, sex, age, color, national origin, ethnicity, creed, religion, disability, sexual orientation, gender, gender identity, marital status, pregnancy, genetic information, veteran status, or political affiliation. Please see [University Statements and Compliance](#).

A successful learning experience requires mutual respect and trust between the students and the instructor. Accordingly, the instructor asks that students be willing to listen to one another's points of view, acknowledging that there may be disagreements, keep discussion and comments on topic, and use first person, positive language when expressing their perspectives.