

Course Syllabus

PSY-3000.301 STATISTICS FOR PSYCHOLOGY

Spring 2021

The University of Utah - Department of Psychology – Asia Campus

Course Website Canvas: <https://go.utah.edu/cas>

4 Credit Hours

Class Meets Section 301: (M/W/F 10:30-11:50 AM). Hybrid

This syllabus is not a binding legal contract. With reasonable notice to students, the instructor may modify the syllabus and course schedule at any time, to accommodate the needs of the class.

Instructor: Mee-Kyoung Kwon, Ph. D.

Office hours Wednesdays 2-3 pm or by advanced appointment (please email me in advance for an additional appointment)

Textbooks and other required materials

TEXTBOOKS: Arthur Aron, Eliot J. Coups, and Elaine N. Aron (2013). *Statistics for Psychology (6th edition)*, Pearson Education Inc.: Boston. ISBN-13: 978-0-205-25815-4 / ISBN-10: 0-205-25815-8

You are also required to have a hand calculator that has a memory function and takes square roots in order to do homework problems and to take exams. You will find it convenient to have a calculator that performs at least the simple statistical functions such as finding a mean and a standard deviation; these cost \$10-15. Though some smart phones and other small electronic devices (e.g., Tablets, etc.) have calculators built in, you are not allowed to use any electronic devices during exams so please make sure to purchase a calculator or to make advance arrangements to borrow one from a friend for exam days.

Course Description

Applying statistical methods to psychological research, including basic descriptive statistics, hypothesis testing, and correlation. Includes demonstrations and laboratory. Pre-Requisite: "C" or better in PSY 1010 (OR PSY 1011) AND MATH 1030 (OR 1040, 1050, 1060, 1070, 1080, 1090, 1170, 1210 OR 1220); Meets University Requirements for Quantitative Reasoning (Stat/Logic) and Quantitative Intensive BS

Course Objectives

This course emphasizes acquisition of both procedural knowledge (i.e., how to do the statistical procedures) and conceptual knowledge (i.e., what the statistics mean and how to interpret them). This knowledge prepares students for courses in research methods and advanced statistics as well as for participation in research laboratories as a Research Assistant. This course additionally prepares students to be informed consumers of academic research and research reported in popular media. For example, after completing this course students will be able to evaluate whether interpretations of media polls are supported by statistical results or not.

1. At the conclusion of this course, students will have an understanding of how statistics are used to summarize basic characteristics of data, compare two or more samples of data, and test associations between two variables.
2. Additionally, students will be able to calculate descriptive statistics, to perform t-tests (one sample, independent samples, and dependent samples), between subjects analysis of variance (ANOVA), correlation, regression, and chi-square tests of association, and to interpret the take-home meaning of these statistical procedures.

3. Students will learn how to perform these statistical procedures both by hand as well as by using the Statistical Package for the Social Sciences (SPSS) software package.
4. Students will be able to evaluate information and make decisions based on data.

These course objectives meet the following University of Utah Department of Psychology Learning Outcomes:

Goal 2 - Scientific Inquiry and Critical Thinking

2. Meets 2.1 Use scientific reasoning to interpret psychological phenomena
3. Meets 2.2 Demonstrate psychology information literacy
4. Meets Goal 2.4 Interpret, design, and conduct basic psychological research

Evaluation Methods & Assignments

Grading Policy

Evaluation Method	Weight
Homework Assignments & Quizzes	35 %
In-Class activities & Labs	15%
Exams	50%
Extra activities	1-3%
Maximum possible Total score	103%

Letter Grades:

A: 93% and above A-: 90.0-92.9%

B+: 87.0-89.9% B: 83.0-86.9% B-: 80.0-82.9%

C+: 77.0-79.9% C: 73.0-76.9% C-: 70.0-72.9%

D+: 67.0-69.9% D: 63.0-66.9% D-: 60.0-62.9%

E: 0-59.9%

Note: I do not round up grades and I do not negotiate earned grades.

Course Schedule

We ek	Da y	Date	Topic	READING	HW
1	M	22-Feb	Introductions: What are statistics and why are they important?	Syllabus	
	W	24-Feb	Descriptive: Frequency Tables and Histograms: Measurement	A1	
	F	26-Feb	Descriptive: Frequency Tables and Histograms: Graphs	A2	HW1 (Due Feb 28th)
2	M	01-Mar	Holiday - No Class		
	W	03-Mar	Descriptive: Central Tendency and Variability	A2	
	F	05-Mar	Descriptive: Central Tendency and Variability	A2	HW2 (Due Mar 7th)
3	M	08-Mar	Introduction to Inferential Statistics – Zscores/Normal Curve	A3	
	W	10-Mar	Introduction to Inferential Statistics – Zscores/Normal Curve	A3	
	F	12-Mar	Introduction to Inferential Statistics – Zscores/Normal Curve	A3	HW3 (Due Mar 14th)
4	M	15-Mar	Introduction to Inferential Statistics – Probability / Samples vs. Populations	A3	
	W	17-Mar	Introduction to Inferential Statistics – Probability / Samples vs. Populations	A3	
	F	19-Mar	Introduction to Inferential Statistics – Probability / Samples vs. Populations	A3	
5	M	22-Mar	Introduction to Hypothesis Testing (HT)	A4	
	W	24-Mar	Introduction to Hypothesis Testing (HT)	A4	
	F	26-Mar	Introduction to Hypothesis Testing (HT)	A4	
6	M	29-Mar	Introduction to Hypothesis Testing (HT)	A4	HW4 (Due Apr 4th)
	W	31-Mar	Spring Recess - No Class		
	F	02-Apr	Spring Recess - No Class		
7	M	05-Apr	Exam 1		
	W	07-Apr	HT with Means of Samples – The Z-Test	A5	
	F	09-Apr	HT with Means of Samples – The Z-Test	A5	HW5 (Due Apr 11th)
8	M	12-Apr	HT with the single-sample t-test	A7	

	W	14-Apr	HT with the dependent t-test		
	F	16-Apr	Single and dependent t-tests Lab		HW6 (Due Apr 18 th)
9	M	19-Apr	HT with the independent (two-sample) t-test	A8	
	W	21-Apr	Independent t-test		
	F	23-Apr	Decision errors	A6	HW7 (Due Apr 25 th)
10	M	26-Apr	Exam 2		
UNIT 3: Advanced and Contemporary Inference – ANOVA, Correlation, Regression					
	W	28-Apr	Power and Effect Size. Independent t-test Lab2	A8	
	F	30-Apr	One-factor between-subjects ANOVA	A9	
11	M	03-May	Reading day – No Class		
	W	05-May	Holiday - No Class		
	F	07-May	One-factor between-subjects ANOVA	A9	HW8 (Due May 9 th)
12	M	10-May	One-factor between-subjects ANOVA Lab	A9	
	W	12-May	Comparisons. SPSS Lab	A9	
	F	14-May	Other ANOVA	A9	
13	M	17-May	Correlation	A10	
	W	19-May	Holiday - No Class		
	F	21-May	Correlation. SPSS Lab	A10	HW9 (Due May 23 rd)
14	M	24-May	Prediction (Regression)	A11&12	
	W	26-May	Prediction (Regression). SPSS Lab	A11&12	
	F	28-May	Chi-Square	A13	HW10 (Due May 30 th)
15	M	31-May	Chi-Square. SPSS Lab	A13	
	W	02-Jun	Integration and Conclusions		
	F	04-Jun	Review. Q&A		
16		TBA	Final Exam		

General University Policies and Resources

Academic Calendar

<http://asiacampus.utah.edu/academic-calendar/>

The Americans with Disabilities Act

The University of Utah Asia Campus seeks to provide equal access to its programs, services, and activities for people with disabilities. If you will need accommodations in this class, reasonable prior notice needs to be given to the UAC Office of the Dean of Students – randy.mccrillis@utah.edu. The UAC Office of the Dean of Students will work with you and the instructor to make arrangements for accommodations. All written information in this course can be made available in an alternative format with prior notification to the UAC Office of the Dean of Students.

Department of Psychology Undergraduate Academic Misconduct Policy

The Department of Psychology has a **zero tolerance policy** for academic misconduct. Academic misconduct includes cheating, plagiarizing, recycling one's own work, research misconduct, misrepresenting one's work, and inappropriately collaborating. Even if these happen on accident, it is your responsibility as a student to understand and prevent academic misconduct. If you're not sure if something is plagiarism – ask me before submitting. This applies to any work students turn in for evaluation or course credit. Definitions can be found in the Student Code at <http://www.regulations.utah.edu/academics/6-400.html>. Assignments turned in on Canvas will be screened using Turnitin, and the above policy will be followed when misconduct is found.

If you are suspected of academic misconduct, the process proceeds according to the rules found in the Student Code, University Policy 6-400(V). **If you are found responsible for misconduct, consequences range from failure on the assignment to dismissal from the program**, consistent with both University and Psychology Department Policy. Minor offenses (plagiarism in written work) include failure to use citations correctly, because of lack of understanding of proper procedures for crediting ideas, rather than intention to cheat with no evidence of lifted/stolen text.

Major Offenses include:

1. Cheating on a test, quiz, problem set, or other independent work
2. Plagiarism

Plagiarism in written work: Copying any quantity of text from another source or another student without quoting and citing the copied text.

Plagiarism in written work: Flagrant misuse of citations, such that a student clearly attempted to represent ideas that were not his/hers as if they were, even if the ideas were presented in the student's own words.

3. Recycling one's work: You may not "re-use" your own writing or paper from another class without expression permission from both instructors
4. Fabrication/ falsification

Both minor and major offenses will have consequences, as outlined in the full Psychology Department Policy (failing the assignment with a "0" – first offense, failing the course with an "E" grade – second offense in ANY class, expulsion from the Psychology Department or University – third offense in ANY class). Cheating during an exam will result in a score of 0 on that exam. A score of zero will be assigned if a student has displayed a test for others to see, looked at another student's exam, or attempted to communicate in any manner with another student during the exam.

****Gross dishonesty** on any graded portion of the course, including exams and assignments, will result in a grade of F for the entire course even if it is a first offense. Gross dishonesty includes behaviors such as, but not limited to, using previous tests, notes, or answer sheets during an exam, having someone else take an exam for you, or submitting written assignments which are not your own work. Please note that the University has a strict policy on academic integrity and I cannot make any special exceptions for students.

Student Code of Conduct

All students are expected to maintain professional behavior in the classroom setting as outlined in the Code of Student Rights and Responsibilities, Policy 6-400 of the University Regulations Library (<http://www.regulations.utah.edu/academics/6-400.html>).

Addressing Sexual Misconduct

Title IX makes it clear that violence and harassment based on sex and gender (which includes sexual orientation and gender identity/expression) is a civil rights offense subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories such as race, national origin, color, religion, age, status as a person with a disability, veteran's status or genetic information. If you or someone you know has been harassed or assaulted, you are encouraged to report it to the Title IX Coordinator in the UAC Office of the Dean of Students – randy.mccrillis@utah.edu. For support and confidential consultation, contact the UAC Mental Health Counseling, 3052 Multi-complex Building, 032-626-6142.

Wellness Statement

Personal concerns such as stress, anxiety, relationship difficulties, depression, cross-cultural differences, etc., can interfere with a student's ability to succeed and thrive at the University of Utah Asia Campus. For helpful resources, contact the UAC Mental Health Counseling Center; asiacampus.utah.edu/mental-health-counseling-center/; 0326266142. You can make an appointment using this link: <https://appointmentwithjan.as.me/schedule.php>.

Language Policy

The University of Utah Asia campus is committed to providing and fostering an environment that is safe and free from prohibited discrimination. The following language policy applies to all academic and administrative units of the University and to all members of the University community, including faculty, staff, and students. English is recognized as the official language of instruction, assessment, and curriculum. In addition, English is the official language for all administrative and business related matters of the University.

University Attendance Requirements

The University expects regular attendance at all class meetings. Instructors must communicate any particular attendance requirements of the course to students in writing on or before the first class meeting. Students are responsible for acquainting themselves with and satisfying the entire range of academic objectives and requirements as defined by the instructor. In order to receive an official excused absence, students must complete a request form in the Office of the Assistant Dean of Students (kevin.darco@utah.edu) and provide any accompanying documentation with the request. If their request is approved, the Assistant Dean of Students will email all appropriate faculty with this notification. If a student will be absent from an exam, they must email the Assistant Dean of Students at kevin.darco@utah.edu prior to the exam.

COVID Related Absences

If you have COVID-19 symptoms, including fever or respiratory symptoms such as cough, phlegm, sore throat, and nasal congestion, you should notify your instructor immediately, call the KCDC for testing guidance, and stay home based on the KCDC's directive. You can return to class if you are clear from COVID-19 symptoms. In order to be excused from your courses, you will need an official medical certification.

Self-quarantine Statement

The University of Utah Asia Campus expects regular attendance at all class meetings. Given the current situation with COVID-19, we have created the following guidelines.

1. If a student has completed less than 50% of the course and is required to self-quarantine, we suggest that the student withdraw from the course. In this situation, all tuition will be refunded with appropriate medical documentation
2. If a student has completed 50-75% of the course and is required to self-quarantine, the Assistant Dean of Students Office will work with the faculty and student to determine the best scenario. If the decision is to withdraw from a course, all tuition will be refunded with appropriate medical documentation.

3. If a student has completed over 75% of the course and is required to self-quarantine, the student and faculty will work together to ensure that the student is able to complete the course. If the student is unable to finish all coursework during the course, a student may receive the mark “I” (incomplete) and work to complete all remaining coursework in consultation with the instructor.

Zoom Session Statements

If this course must host Zoom sessions, the University of Utah Asia Campus requires that all students turn on their cameras during the entire course and post their full name in English. We ask that students try to locate a quiet space that will allow for ample social distancing and that students not wear a mask if possible. If a student has financial difficulty obtaining the appropriate equipment for online courses, the UAC can help provide resources.

It is recommended that Zoom sessions be conducted synchronously. Faculty are not required to record their zoom sessions; this is an individual faculty decision.