Fall 2021 Course Syllabus

PSY 3307-06/3307A-06: Statistics for Psychology

Jonathan Pedroza, MS, MA 8/13/2021

 Meeting Time Lecture: 2:30pm-3:45pm Activity: 4pm-4:50pm Instructor: Jonathan A. Pedroza, MS, MA

- Office: Virtual Office Hours: Tues 12pm-2pm; Thurs 5pm-6pm
- Email: japedroza@cpp.edu Secondary Email: cpppedroza@gmail.com
- Required Text: Statistics For People Who (Think They) Hate Statistics by Neil J. Salkind; ISBN: 9781506333830
- Corequisites: PSY 3307 & PSY 3307A Prerequisites: STA 1200 & PSY 2204 Required Materials: Basic scientific Calculator Optional Materials: CRAN R for calculations
- Zoom Information: https://cpp.zoom.us/j/85752742161 Meeting ID: 857 5274 2161 o Passcode: 3307 Course Description Course Structure Course Objectives

- Grading Policy
- Assignments • Exams: Problem Sets/Quizzes:
- SPSS Assignments: Other Policies Academic Integrity:

Distribution of Course Materials:

Accommodations:

Meeting Time

- Mandatory Reporting: Student Health & Well-being: • Still In a Pandemic Cameras Participation Pandemic-related Accomodations Classes Will Be Recorded Tenative Course Schedule
- 9781506333830

Zoom Information: https://cpp.zoom.us/j/85752742161 Meeting ID: 857 5274 2161

Course Description

discussion, practice problems, and SPSS tutorials.

Understand and calculate descriptive statistics

Understand and calculate inferential statistics

Read and interpret basic statistics used in the psychology literature

kable_styling(bootstrap_options = c("striped", "hover"),

• Develop a foundation for success in higher level statistics and research methods courses

• Use SPSS to compute statistics

Grading Policy

kbl(table) %>%

Problem Set/Quiz

SPSS Assignments

Total Class Points

Overview: UPDATE A total of 500 points will be available for this course based on 3 exams, 12 problem sets/quizzes, and 4 SPSS assignments.

position = "center") Assignments_Tests Points_Each Total_Points **Amount** 3 100 300 Exam

10

20

120

80

500

91.5-100

89.5-91.4

87.5-89.4

81.5-87.4

A-B+

Α

В

Other Policies Academic Integrity:

Office of Student Conduct & Integrity.

Accommodations:

sets/quizzes, is allowable.

Still In a Pandemic

if the office hours do not work for you.

zero for that assignment will be assigned.

Classes Will Be Recorded

accomodations that can be made.

Week 1b

Week 2a

Week 2b

Week 3a

Week 3b

Week 4a

Week 5a

Week 7b

Week 8a

Week 8b

Week 9a

Week 9b

Week 10a

Week 10b

Week 11a

Pandemic-related Accomodations

Cameras

Mandatory Reporting:

their own assignment. Each assignment will consist of:

1. Research Question & Hypothesis (2 points)

6. Visualization of Statistic Finding (3 points)

7. Write-up of Inferential Statistic (4 points)

2. Recoding Variables (2 points)

5. Inferential Statistic (4 points)

3. Descriptive Statistics (2 points)

4. Descriptive Visualization (3 points)

mandatory reporters. Once we are made aware of such incidents, we are required to report the incident to our Title IX officer on campus, regardless of whether the student wants the information reported. **Student Health & Well-being:** Students experiencing emotional distress may seek services through Counseling & Psychological Services

Participation Please interrupt at any time if you do not understand anything...and I mean ANYTHING. This class includes the essentials for a lot of research and practical applications in both the social and biological sciences. It is important to understand as much as possible regarding the statistical tests that we will learn during this semester. Communication is key for this class. I will also offer office hours to discuss class assignments. Please email me

We are still in a pandemic so please communicate with me if you are not able to meet the requirements of this

honored. If there is no prior communication about not being able to meet the requirements for an assignment, a

All classes will be recorded with automated closed captions and a full automated transcription of each lecture.

Learn about using

R as a calculator

Introduction &

Frequency &

Problem Set 1

Variability & z-

Variability & z-

Probability &

Sampling

Sampling

Distributions,

Testing & The z-

Hypothesis

test

scores

scores

Central Tendency

Review

No readings

Ch.1

Ch.2

Ch.3

Ch.3

Ch.7 & 8

Ch.7 & 8

Ch.11

Ch.11

Ch.12

Ch.12

Ch.10-12

Ch.10-12

Ch.13

Ch.13

Due Dates (@

Problem set 1

Problem set 2

Problem set 3

Problem sets 4 &

Problem set 6

Assignment 1 &

Problem set 7

Study Guide (JP)

SPSS

5

11:59pm)

Please email me if you have any concerns regarding the lecture being recorded to see if there are any

class. While no late assignments will be accepted, accommodations due to pandemic-related issues will be

Week 4b 09/09/21

Study Session Week 5b 09/16/21 Ch.1-3, 7 Week 6a 09/21/21 Exam 1 Ch.1-3, 7 Hypothesis Week 6b 09/23/21 Testing & The z-Ch.10 test Problem Set 4 Single sample t-Week 7a Ch.11 09/28/21 test Problem Set 5

Independent

Independent

Paired t-Test

Paired t-Test

Problem Set 7

Study Session

One-way ANOVA

ANOVA & Post-hoc

Problem Set 8

tests SPSS

Exam 2

Samples t-Test Problem Set 6

1

Samples t-Test

SPSS Assignment

Assignment 2 TWo-way ANOVA 10/28/21 Ch.14 Problem set 8 Week 11b Problem Set 9

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Final Grade: Your final grade will be the same for the lecture and activity based on the following scale: kbl(table2) %>% kable_styling(bootstrap_options = c("striped", "hover"), position = "center") Letter Grade **Points Percentages**

457.5 - 500

447.5-457

437.5-447

407.5-437

12

4

B-	397.5-407	79.5-81.4					
C+	387.5-397	77.5-79.4					
С	357.5-387	71.5-77.4					
C-	347.5-357	69.5-71.4					
D+	337.5-347	67.5-69.4					
D	307.5-337	61.5-67.4					
D-	297.5-307	59.5-61.4					
F	0-297.5	0-59.5					
There will be 3 take-home exams, each worth up to 100 points. Exams will contain vignettes and statistical problems to solve. To earn full credit, you must show all steps taken in a problem to arrive at your answer (either by hand with attached photos or by providing an R script). Exams will be open-book/open-note but must be completed individually. Each exam will be on Blackboard and will have a 34-hour time window from when it becomes available until it is due. No late exams will be accepted.							
Problem Sets/Quizzes:							
There will be 12 problem sets/quizzes, each worth 10 points. These problem sets can be submitted by either completing the problems by hand and attaching photos of your work on Blackboard or by submitting a R script. Completed assignments will be awarded full credit. The first 10 minutes of class following a due problem set/quiz will go over the answers. Answer keys with descriptions will be available following the class period that discusses the problem set/quiz. No late problem sets/quizzes will be accepted.							
SPSS Assignments:							
There will be 4 SPSS assignmen	nts, each worth up to 20 poi	nts. 3 points of extra credit will be a	awarded for				

completing the assignment in SPSS and R. Collaboration is encouraged; however, every student must turn in

SPSS can be accessed on your personal computer by using the CPP virtual lab (https://www.cpp.edu/it/virtual-

software-lab/index.shtml), downloading the free 14-day trial from IBM (https://www.ibm.com/analytics/spss-trials),

or purchasing the Standard GradPack 26 6-mo rental (https://cpp.onthehub.com/). Answer keys with descriptions

(https://www.cpp.edu/studentconduct/student-conduct-code.shtml). Academic integrity violations, including, but

not limited to, cheating and plagiarism, may result in a 0 for an assignment or exam and will be reported to the

Do not copy/screenshot or retain any exam questions. Violation of this policy is grounds for disciplinary action.

Distribution of other course materials, including slides, video lectures, SPSS assignments, and problem

Please note two executive orders from the CSU's Office of the Chancellor that limit what information faculty

Order 1096 relates to reporting of campus sexual assaults. CSU faculty members are considered

members can keep confidential. Executive Order 1083 relates to reporting of child abuse and Executive

Reasonable accommodations will be provided for students with learning, physical, or other disabilities.

Accommodations approved through the Disability Resource Center (909-869-3333) should be discussed with the instructor early in the semester to ensure appropriate implementation. **Distribution of Course Materials:**

Additionally, there is the Student Health & Wellbeing for other health issues.

the day after the submission. No late SPSS assignments will be accepted.

Students are expected to adhere to the University's Student Conduct Code

If you feel comfortable please turn on your camera. However, I understand that you may be in a situation where you may not be able to have your camera on. I would like to see your faces, simply because I want to gauge understanding. This is much easier by seeing the looks on your faces.

Tenative Course Schedule {{< bootstrap-table "table table-hover" >}} Readings Week **Dates Lecture Topics**

08/19/21

08/24/21

08/26/21

08/31/21

09/02/21

09/07/21

09/14/21

09/30/21

10/05/21

10/07/21

10/12/21

10/14/21

10/19/21

10/21/21

10/26/21

Distributions Probability & Sampling Ch.7 & 8 Study Guide (JP) Distributions Problem Set 3

	Week 11b	10/28/21	Problem Set 9	Cn.14	Problem set 8
	Week 12a	11/02/21	TWo-way ANOVA SPSS Assignment 3	Ch.14	
	Week 12b	11/04/21	Two-way ANOVA Problem Set 10	Ch.14	Problem set 9 & SPSS Assignment 2
	Week 13a	11/09/21	Repeated- measures ANOVA	Ch.18	
	Week 13b	11/11/21	Repeated- measures ANOVA Problem Set 11	Ch.18	Problem set 10 & SPSS Assignment 3
	Week 14a	11/16/21	Correlation	Ch.5 & Ch.15	
	Week 14b	11/18/21	Correlation Problem Set 12	Ch.5 & Ch.15	Problem set 11
	Week 15a	11/23/21	Regression SPSS Assignment 4	Ch.16	
	Week 15b	11/25/21	Thanksgiving		
	Week 16a	11/30/21	Chi Square	Ch.17	Problem set 12 & Study Guide (JP)
	Week 16b	12/02/21	Study Session	Ch.5, 13-16, 17@, 18	SPSS Assignment 4
	Finals Week	12/6-10/21	Exam 3	Ch.5, 13-16, 17@, 18	
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