# Fall 2021 Course Syllabus

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

Jonathan Pedroza, MS, MA

8/13/2021

<ul> <li>Activity: 4pm-4:50pm</li> <li>Instructor: Jonathan A. Pedroza, MS, MA</li> <li>Office: Virtual</li> </ul>
<ul> <li>Office Hours: Tues 12pm-2pm; Thurs 5pm-6pm</li> </ul>
<ul> <li>Email: UPDATE@cpp.edu</li> </ul>
Secondary Email: cpppedroza@gmail.com
<ul> <li>Required Text: Statistics For People Who (Think They) Hate Statistics by Neil J. Salkind; ISBN:</li> </ul>
9781506333830
Corequisites: PSY 3307 & PSY 3307A
Prerequisites: STA 1200 & PSY 2204
Required Materials: Basic scientific Calculator
Optional Materials: CRAN R for calculations
<ul> <li>Zoom Information: https://uoregon.zoom.us/j/96728433202?</li> </ul>
pwd=MkxqV1ZadFNhV2d3ZzFtOVlpb0J6QT09
<ul> <li>Meeting ID: 967 2843 3202</li> </ul>
Passcode: 3307
Course Description
• Course Structure
Course Objectives
Grading Policy
Assignments
• Exams:
Problem Sets/Quizzes:
<ul> <li>SPSS Assignments:</li> </ul>
Other Policies
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Still In a Pandemic
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o Participation
Pandemic-related Accomodations
Classes Will Be Recorded     Tenetive Course Schodule
Tenative Course Schedule

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Lecture: 2:30pm-3:45pm

Activity: 4pm-4:50pm

Meeting Time

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**Course Description** Correlational techniques and inferential statistics useful to behavioral scientists. Product moment and rank order

correlation coefficients, t-ratios, introduction to analysis of variance, selected non-parametric statistics. Selection, application, and interpretation of appropriate statistics for analysis of behavioral data.

**Course Structure** This course will be conducted online (i.e., no face-to-face meetings) in a synchronous format (i.e., lectures and

activities scheduled at specific times). Course content will be provided via Canvas. Lectures and activities will be conducted via Zoom. Lectures will include presentations with worked example problems, followed by practice problems. Recordings of each presentation portion will be posted on Canvas. Activities will include problem set

discussion, practice problems, and SPSS tutorials.

Upon completion of this course, students will be able to:

Understand and calculate descriptive statistics

Understand and calculate inferential statistics

• Read and interpret basic statistics used in the psychology literature

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**Amount** 

3

12

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position = "center")

• Use SPSS to compute statistics

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

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Exam

Assignments\_Tests

Problem Set/Quiz

SPSS Assignments

**Total Class Points** 

**Course Objectives** 

**Grading Policy** Overview: UPDATE A total of 500 points will be available for this course based on 3 exams, 15 problem sets/quizzes, and 4 SPSS assignments.

Points\_Each

100

10

20

Total\_Points

300

120

80

500

**Percentages** 

91.5-100

89.5-91.4

0-59.5

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Letter\_Grade

Α

**A**-

F

**Assignments** 

**Problem Sets/Quizzes:** 

**Other Policies** 

**Academic Integrity:** 

Office of Student Conduct & Integrity.

**Accommodations:** 

sets/quizzes, is allowable.

Still In a Pandemic

Cameras

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

instructor early in the semester to ensure appropriate implementation.

**Distribution of Course Materials:** 

**Student Health & Well-being:** 

**Exams:** 

kbl(table2) %>%

B+ 437.5-447 87.5-89.4 407.5-437 81.5-87.4 В

**Points** 

457.5 - 500

447.5-457

0-297.5

becomes available until it is due. No late exams will be accepted.

**Final Grade:** Your final grade will be the same for the lecture and activity based on the following scale:

B-397.5-407 79.5-81.4 77.5-79.4 387.5-397 C+ 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 61.5-67.4 297.5-307 59.5-61.4 D-

There will be 3 take-home exams, each worth up to 100 points. Exams will contain vignettes and statistical

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

problems to solve. To earn full credit, you must show all steps taken in a problem to arrive at your answer (either

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 assignments, each worth up to 20 points. 3 points of extra credit will be awarded for completing the assignment in <b>SPSS and R</b> . Collaboration is encouraged; however, every student must turn in their own assignment. Each assignment will consist of:
<ol> <li>Research Question &amp; Hypothesis (2 points)</li> <li>Recoding Variables (2 points)</li> <li>Descriptive Statistics (2 points)</li> <li>Descriptive Visualization (3 points)</li> <li>Inferential Statistic (4 points)</li> <li>Visualization of Statistic Finding (3 points)</li> <li>Write-up of Inferential Statistic (4 points)</li> </ol>
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 the day after the submission. No late SPSS assignments will be accepted.

(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

Accommodations approved through the Disability Resource Center (909-869-3333) should be discussed with 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

Title IX officer on campus, regardless of whether the student wants the information reported.

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

understanding. This is much easier by seeing the looks on your faces.

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

**Mandatory Reporting:** Please note two executive orders from the CSU's Office of the Chancellor that limit what information faculty members can keep confidential. Executive Order 1083 relates to reporting of child abuse and Executive Order 1096 relates to reporting of campus sexual assaults. CSU faculty members are considered mandatory reporters. Once we are made aware of such incidents, we are required to report the incident to our

Students experiencing emotional distress may seek services through Counseling & Psychological Services.

If you feel comfortable please turn on your camera. However, I understand that you may be in a situation where

Please interrupt at any time if you do not understand anything...and I mean ANYTHING. This class includes the

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.

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

you may not be able to have your camera on. I would like to see your faces, simply because I want to gauge

### 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 if the office hours do not work for you. Pandemic-related Accomodations

zero for that assignment will be assigned.

Classes Will Be Recorded

accomodations that can be made.

Week

Week 2b

Week 3a

Week 3b

Week 4a

Week 4b

Week 5a

Week 5b

Week 6a

Week 7b

Week 8a

Week 8b

Week 9a

Week 9b

Week 10a

Week 10b

Week 11a

Week 11b

Week 12a

Week 12b

**Tenative Course Schedule** 

{{< bootstrap-table "table table-hover" >}}

**Dates** 

08/26/21

08/31/21

09/02/21

09/09/21

09/14/21

09/16/21

09/21/21

09/23/21

10/07/21

10/12/21

10/14/21

10/19/21

10/21/21

10/26/21

10/28/21

11/02/21

11/04/21

11/09/21

11/11/21

Participation

Learn about using 08/19/21 Week 1b No readings R as a calculator Introduction & Week 2a 08/24/21 Ch.1 Review

**Central Tendency** 

Frequency &

Problem Set 1

Variability & z-

Variability & z-

scores Problem

scores

Set 2

Probability

Sampling

Hypothesis

Set 3

Exam 1

The z-test

Problem Set 4

Single sample t-

Independent

Independent

Samples t-Test

Problem Set 6

Paired t-Test

Paired t-Test

Problem Set 7

Study Session

One-way ANOVA

ANOVA & Post-hoc

TWo-way ANOVA

TWo-way ANOVA

SPSS Assignment

Two-way ANOVA

Problem Set 10

measures ANOVA

Repeated-

Problem Set 8

tests SPSS

Assignment 2

Problem Set 9

3

Exam 2

1

Samples t-Test

SPSS Assignment

test Problem Set 5

Distributions &

Testing *Problem* 

Study Session

**Lecture Topics** 

Readings

Ch.2

Ch.3

Ch.3

Ch.8

Ch.7

Ch.1-3, 7, 8

Ch.1-3, 7, 8

Ch.10

Ch.11

Ch.11

Ch.11

Ch.12

Ch.12

Ch.10-12

Ch.10-12

Ch.13

Ch.13

Ch.14

Ch.14

Ch.14

Ch.18

Due Dates (@

Problem set 1

Problem set 2

Study Guide (JP)

Problem set 3

Problem sets 4 &

Problem set 6

Assignment 1 &

Problem set 7

Problem set 8

Problem set 9 &

Assignment 2

SPSS

Study Guide (JP)

SPSS

5

11:59pm)

### Week 6b 09/28/21 Week 7a 09/30/21

	Week 13a	11/16/21	Repeated- measures ANOVA Problem Set 11	Ch.18	Problem set 10 & SPSS Assignment 3
	Week 13b	11/18/21	Correlation	Ch.5 & Ch.15	
	Week 14a	11/23/21	Correlation Problem Set 12	Ch.5 & Ch.15	Problem set 11
	Week 14b	11/25/21	Regression SPSS Assignment 4	Ch.16	
	Week 15a	11/30/21	Chi Square	Ch.17	Problem set 12 & Study Guide (JP)
	Week 15b	12/2/21	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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