Jonathan Pedroza, MS, MA 8/13/2021

 Lecture: 8:30am-9:45am Activity: 10am-10:50am Instructor: Jonathan A. Pedroza, MS, MA Office: Virtual Office Hours: Tues 12pm-2pm; Thurs 5pm-6pm

Meeting Time

Email: japedroza@cpp.edu Secondary Email: cpppedroza@gmail.com • Required Text: Behavioral Sciences Stat Student Edition by Gary W. Heiman;

ISBN:9781285458144 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: Accommodations: Distribution of Course Materials: Mandatory Reporting: Student Health & Well-being:

• Still In a Pandemic

Meeting

Passcode: 3307

Course Description

Course Objectives

Assignments		
F	0-297.5	0-59.5
D-	297.5-307	59.5-61.4
D	307.5-337	61.5-67.4
D+	337.5-347	67.5-69.4
C-	347.5-357	69.5-71.4

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

Completed assignments will be awarded full credit. The first 10 minutes of class following a due problem set/quiz

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

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.

will go over the answers. Answer keys with descriptions will be available following the class period that

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

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)

discusses the problem set/quiz. No late problem sets/quizzes will be accepted.

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:

Problem Sets/Quizzes:

SPSS Assignments:

2. Recoding Variables (2 points)

5. Inferential Statistic (4 points)

3. Descriptive Statistics (2 points)

4. Descriptive Visualization (3 points)

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

Academic Integrity:

Office of Student Conduct & Integrity.

Accommodations:

Other Policies

Exams:

Distribution of other course materials, including slides, video lectures, SPSS assignments, and problem sets/quizzes, is allowable. **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

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

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

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

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

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.

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

(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

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

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

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

Week 1b

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 12a

Week 12b

Tenative Course Schedule

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

Dates

08/19/21

08/31/21

09/02/21

09/07/21

09/09/21

09/14/21

09/16/21

09/21/21

09/30/21

10/05/21

10/07/21

10/12/21

10/14/21

10/19/21

10/21/21

11/02/21

11/04/21

Pandemic-related Accomodations

Participation

Still In a Pandemic

Cameras

Introduction & Week 2a 08/24/21 Ch.1 Review Frequency & Week 2b 08/26/21 Ch.2 & Ch.3 Central Tendency

Problem Set 1

Variability & z-

Variability & z-

Probability &

Distributions

Probability &

Distributions

Problem Set 3

Sampling

Sampling

Distributions,

Testing & the z-

Study Session

Hypothesis

test

Exam 1

Sampling

Distributions,

Testing & the z-

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

TWo-way ANOVA

SPSS Assignment

Two-way ANOVA

Problem Set 10

Problem Set 8

Exam 2

1

Samples t-Test

SPSS Assignment

test Problem Set 4

test Problem Set 5

Hypothesis

Sampling

scores Problem

scores

Set 2

Lecture Topics

Learn about using

R as a calculator

Readings

No readings

Ch.4 & Ch.5

Ch.4 & Ch.5

Ch.6

Ch.6

Ch. 7

Ch.1-6

Ch.1-6

Ch.7

Ch.8

Ch.9

Ch.9

Ch.9

Ch.9

Ch.7-9

Ch.7-9

Ch.11

Ch.12

Ch.12

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 09/23/21 Week 7a 09/28/21

ANOVA & Post-hoc tests SPSS 10/26/21 Ch.11 Week 11a Assignment 2 TWo-way ANOVA Week 11b 10/28/21 Ch.12 Problem Set 9

3

Repeated-Week 13a 11/09/21 Ch.11 measures ANOVA Problem set 10 & Repeated-11/11/21 SPSS Week 13b measures ANOVA Ch.11 Problem Set 11 Assignment 3 Week 14a 11/16/21 Correlation Ch.10 Correlation Week 14b Problem set 11 11/18/21 Ch.10 Problem Set 12 Regression SPSS 11/23/21 Week 15a Ch.10 Assignment 4 Week 15b 11/25/21 Thanksgiving Problem set 12 & 11/30/21 Ch.13 Week 16a Chi Square Study Guide (JP) SPSS Study Session Week 16b 12/02/21 Ch.8-13@ Assignment 4 Ch.8-13@ Finals Week 12/6-10/21 Exam 3 {{< /bootstrap-table >}}

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 • Use SPSS to compute statistics Read and interpret basic statistics used in the psychology literature Develop a foundation for success in higher level statistics and research methods courses **Grading Policy** Overview: A total of 500 points will be available for this course based on 3 exams, 12 problem sets/quizzes, and 4 SPSS assignments. kbl(table) %>% Fil

<pre>kable_styling(bootstrap_options = c("striped", "hover"),</pre>				
Assignments_Tests	Amount	Points_Each		Total_Points
Exam	3	100		300
Problem Set/Quiz	12	10		120
SPSS Assignments	4	20		80
Total Class Points				500
Final Grade: Your final grade will be the	same for the lectur	e and activity b	pased on the	following scale:
<pre>kbl(table2) %>% kable_styling(bootstrap_options =</pre>		over"),		
Letter_Grade	Points		Percentag	es
A	457.5 - 500		91.5-100	
A-	447.5-457		89.5-91.4	
B+	437.5-447		87.5-89.4	
В	407.5-437		81.5-87.4	
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	

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Secondary Email: cpppedroza@gmail.com
Required Text: Behavioral Sciences Stat Student Edition by Gary W. Heiman; ISBN:9781285458144
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