

PSYC 2: Introduction to Psychological Statistics
Meeting Times: June 20 - July 22

Synchronous: Tuesdays and Thursdays, 1:00 – 4:30 PM via Zoom

“My greatest success has been asking for help”- Justice, Sonia Sotomayor



Instructor Info

Claudia L Castaneda, M.S. (She, Her, Ella)
Email: clcastan@ucsc.edu

1:1 Conferences (a.k.a. Office hours):
Wednesdays 11:00 -12:00 am
Or by Appointment



Teacher Assistant

Email is the best way to contact me. I usually reply within one business day (24 hours Monday-Friday). If you have general questions about the course, please post it on CANVAS under [this week's discussion post](#).

1:1 conferences are highly encouraged. This is a time when students can ask questions or chat about the course and psychological research in general. My PhD is in Developmental Psychology with an emphasis on children's understanding about the environment. If you have questions about research opportunities, graduate school, and academics in general stop by. I am happy to talk about all those things.

Your success is my number one priority in this course please reach out
[\(click here for welcome Video\)](#)



Course Description

PSYC 2 provides an introduction to basic statistical principles and procedures used in social sciences. The primary goal of this course is to provide you with the statistical knowledge and skills to run and interpret simple statistical analyses. At the end of the course, you will be able to choose and run the appropriate statistical test to answer research questions and make objective interpretations of statistical information.



Learning Outcomes

- Become critical consumers of statistical information in academic setting and everyday life.
- Understand basic statistical terminology: types of variables and measures, statistical notations: population mean (μ), sample mean (\bar{x}), and statistical principles: Distribution of sample means (DSM), degrees of freedom (df), hypothesis testing (H_0 ; H_A).
- Identify and know when to use appropriate statistical designs (experimental and non-experimental)
- Choose, run, and interpret basic statistical analyses such as t-tests, ANOVAs and correlations.
- Communicate statistical results using disciplinary conventions as well as appropriate conventions for general audiences, both verbally and in writing.

Course Materials

Canvas

I will use Canvas to post all class materials, slides, homework assignments, grades, review materials, etc. Please make sure you have a working login and can access the site. Slides and recorded videos of synchronous meetings (when available) will be uploaded typically within a day of any given lecture. Please note that these materials are made available only for your personal use and should not be sold or shared for commercial purposes.

Statistical Analysis Software

You will complete both manual (by hand) and computer calculations. For computer calculations, this course will use SPSS ([click here](#) for installation instructions).

Note: SPSS is not compatible with Chromebooks, so students may use PSPP (preferred) or Excel. However, PSPP and Excel users will have to look for online tutorials on their own.

Calculator

You will need a simple calculator (one that has basic functions and can also take square roots and exponents). You do not need an expensive graphing calculator, just a calculator not on your smartphone. Or you can use an online calculator (<https://www.desmos.com/scientific>).

Textbooks (optional)

There is no required textbook for this class. However, some may find a textbook useful. Here are some good ones:

- Pay what you want scale:
 - Diez, D., Cetinkaya-Rundel, M., & Barr, C. D. (2021). *OpenIntro Statistics*, Fourth Edition. ([click here](#).)
- Available free & electronically via university library:
 - Dodge, Y. (2008). *The concise encyclopedia of statistics*. Springer. ([click here](#)).
 - Freedman, D., Pisani, R., & Purves, R. (2007) *Statistics*. W. W. Norton & Company, Inc. ([click here](#)).
 - Stehlik-Barry, K., & Babinec, A. J. (2017). *Data analysis with IBM SPSS Statistics*. Packt Publishing. ([click here](#)).



Statistical Knowledge (75%)	
IN-CLASS PRACTICE & PARTICIPATION (10, two of the lowest scores will be dropped)	10%
<ul style="list-style-type: none"> At the end of each lecture upload your work on CANVAS DUE after Lecture 	
QUIZZES (10, two of the lowest scores will be dropped)	15%
<ul style="list-style-type: none"> Online quizzes will consist of multiple-choice and fill-in-the-blank questions that assess your understanding of key concepts. They may also ask you to do calculations DUE Wednesdays and Fridays at 5:00 PM Two of the lowest scores will be dropped; therefore, no make-up or extensions will be allowed 	
HOMEWORK (5, one-time 24 hrs. extension, except for Homework #5)	25%
<ul style="list-style-type: none"> Each homework will consist of ten (10) questions to help you practice course concepts. DUE Thursday at 11:59 PM + one (1) EC*; closes Friday at 5:00 PM. Check CANVAS in case of changes. To earn full credit, show your work and circle/highlight your final answer. You may request a 24-hour-no-questions-asked-extension. You must email Karinna and cc Claudia and request to upload your assignment late; therefore, there is no make-up homework. <ul style="list-style-type: none"> Email subject: "Psyc 2: Homework # xx 24-hrs. extension" 	
GRADED REVIEW (4, one-time 24 hrs. extension, except for Review # 4)	25%
<ul style="list-style-type: none"> DUE Monday at 5:00 PM +1 EC*; closes at 11:59 PM. Check CANVAS in case of changes. The Graded Reviews will be on Canvas and have both multiple-choice and short-answer questions. I expect you to complete this work independently (working with others will be considered cheating). The content of each Graded Review is cumulative. It will include content covered in prior reviews. You may request a 24-hour-no-questions-asked-extension. You must email Karinna and cc Claudia and request to upload your assignment late; therefore, there is no make-up Graded Review. <ul style="list-style-type: none"> Email subject: "Psyc 2: Graded Review # XX 24-hrs. extension" 	
Statistical Skills (25 %)	
SPSS GRADED PRACTICE (5, one-time 24 hrs. extension, except for Practice # 5)	25%
<ul style="list-style-type: none"> DUE Saturday at 5:00 PM +1 EC*; closes Saturday at 11:59 PM You may request a 24-hour-no-questions-asked-extension. You must email Karinna and cc Claudia and request to upload your assignment late; therefore, there is no make-up SPSS practice. <ul style="list-style-type: none"> Email subject: "Psyc 2: SPSS Practice # XX 24-hrs. extension" 	

*See extra credit on page 6

Scores to Letter Grades:

A+ 97%	B 82%	C- 70%	Note: The Psychology Department requires at least a B- in PSYC 2 to declare the Psychology or Cognitive Science majors. Because I will drop some of your lowest scores and offer extra credit opportunities, final grades will <u>not</u> be rounded.
A 92%	B- 80%	D+ 67%	
A- 90%	C+ 77%	D 60%	
B+ 87%	C 72%	F Below 60%	



Class Schedule (Remember that this is a living document, meaning this schedule might change).

	Date	Class Content	To Do	Submission
WEEK 1				
Statistical Knowledge	Tues 6/21	Lecture 1.1: Introduction, key/concepts terms, research designs, visual data displays; measures of central tendency	Participation & Attendance	DUE after Lecture
			Quiz # 1	DUE Wednesdays 5:00 PM
	Thus 6/29	Lecture 1.2: Introduction, key/concepts terms, research designs, visual data displays; measures of central tendency	Participation & Attendance 2	DUE after Lecture
			Quiz # 2	DUE Friday at 5:00 PM
		Lecture 1.1 & 1.2	Homework # 1	DUE Thur. 11:59 PM +1 EC; closes Fri. 5:00 PM)
Graded Review # 1			DUE Monday 5:00 PM +1 EC; close at 11:59 PM	
Statistical Skills	Tues 6/21	Introduction to SPSS Create, organize, and save files.	SPSS Graded Practice # 1	DUE Sat. 5:00 PM +1 EC; close Sat. at 11:59 PM
	Thus 6/23	Type of Variables: how to recode and compute. Graphs: Bar graphs, histograms, and correlations		
WEEK 2				

Statistical Knowledge	Tues 7/5	Lecture 2.1: Sampling distributions, hypothesis testing, z-test	Participation & Attendance	DUE after Lecture
			Quiz # 3	DUE Wednesdays 5:00 PM
	Thus 6/29	Lecture 2.2: Issues w/ hypothesis tests, power, effect sizes, 1-sample t-test	Participation & Attendance	DUE after Lecture
			Quiz # 4	DUE Friday at 5:00 PM
		Lecture 2.1 & 2.2	Homework # 2	DUE Thur. 11:59 PM +1 EC; closes Fri. 5:00 PM)
Graded Review # 2			DUE Monday 5:00 PM +1 EC; close at 11:59 PM	
Statistical Skills	Tues 6/21		SPSS Graded Practice # 2	DUE Sat. 5:00 PM +1 EC; close Sat. at 11:59 PM

WEEK 3				
Statistical Knowledge	Tues 7/5	Lecture 3.1:	Participation & Attendance	DUE after Lecture
			Quiz # 5	DUE Wednesdays 5:00 PM
	Thus 6/29	Lecture 3.2:	Participation & Attendance 2	DUE after Lecture
			Quiz # 6	DUE Friday at 5:00 PM
		Lecture 3.1 & 3.2	Homework # 2	DUE Thur. 11:59 PM +1 EC; closes Fri. 5:00 PM)
			Graded Review # 2	DUE Monday 5:00 PM +1 EC; close at 11:59 PM

Statistical Skills	Tues 6/21		SPSS Graded Practice # 3	DUE Sat. 5:00 PM +1 EC; close Sat. at 11:59 PM
WEEK 4				
Statistical Knowledge	Tues 7/5	Lecture 4.1:	Participation & Attendance	DUE after Lecture
			Quiz # 7	DUE Wednesdays 5:00 PM
	Thus 6/29	Lecture 4.2:	Participation & Attendance 2	DUE after Lecture
			Quiz # 8	DUE Friday at 5:00 PM
		Lecture 4.1 & 4.2	Homework # 2	DUE Thur. 11:59 PM +1 EC; closes Fri. 5:00 PM)
Graded Review # 2			DUE Monday 5:00 PM +1 EC; close at 11:59 PM	
Statistical Skills	Tues 6/21		SPSS Graded Practice # 2	DUE Sat. 5:00 PM +1 EC; close Sat. at 11:59 PM
WEEK 5				
Statistical Knowledge	Tues 7/5	Lecture 5.1:	Participation & Attendance	DUE after Lecture
			Quiz #9	DUE Wednesdays 5:00 PM
	Thus 6/29	Lecture 5.2:	Participation & Attendance 2	DUE after Lecture
			Quiz # 10	DUE Friday at 5:00 PM
		Lecture 5.1 & 5.2	Homework # 2	DUE Thur. 11:59 PM +1 EC; closes Fri. 5:00 PM)
Graded Review # 2			DUE Monday 5:00 PM +1 EC; close at 11:59 PM	
Statistical Skills			SPSS Graded Practice # 2	DUE Sat. 5:00 PM +1 EC; close Sat. at 11:59 PM

Additional Information

Students with Disabilities

If you need accommodations based on the impact of a disability, please contact me privately to submit your Accommodation Authorization and discuss your specific needs as soon as possible. If you have accommodations through the [Disability Resource Center \(DRC\)](#) but aren't sure if you want to use them, I'd highly suggest **submitting your Accommodation Authorization anyway** so that you have access to accommodations just in case.

DRC Contact: 831-459-2089, drc@ucsc.edu

Distribution of Lecture Notes:

Students may be disciplined for selling or distributing course notes for any commercial purposes, whether or not they are the person taking the notes. The unauthorized sale of lecture notes or class materials is a violation of campus policies, state law, and may also constitute copyright infringement subject to legal action.

Academic Integrity

- All of the work you submit for use in this course must be completely your own and produced exclusively for this class. Use of any sources should be cited properly. Refer to the library guide [here](#) for more info about source citation and plagiarism.
- **Homework assignments:** Students are welcome to consult one another with conceptual questions about the homework. However, I expect the work you submit to be completed independently. Submissions with exactly the same prose will be considered violations of the academic honesty policy.
- **Showing work:** On both homework and exams, I expect you to show your work—not just report a final answer. Answers that do not show work will not receive credit.
- For the consequences of academic dishonesty, refer to the student guide available [here](#).
 - Violations will be taken seriously; if you have any questions about if something constitutes academic dishonesty, please contact me.

EXTRA CREDIT

Assignment submissions (14 points - 5%)

Given the fast-paced nature of the course, students will be able to submit **some** assignments **a few hours** passed the DUE time without penalty. However, those who submit their assignments (e.g. Homework, Graded Reviews, and SPSS practices) by the DUE time, will receive one (1) extra credit point.

Instructor Evaluation (Student Evaluations of Teacher or SETs)

You will receive one (1) point towards your final grade if at least 50% of the class completes a teaching evaluation for me at the end of the course. Your evaluation will be anonymous, so please complete it honestly.

Campus Resources

Slug Support (<https://deanofstudents.ucsc.edu/slug-support/program/>)

- If you are facing financial challenges, food and housing insecurity, or other concerns, and you are not sure how to find the resources you need, contact Slug Support by calling (831) 459-4446. You can also contact Slug Support if you are concerned about a friend or peer and they will connect with that person to help them get access to the resources they need. I am also happy to contact Slug Support on your behalf.

Basic Needs (<https://basicneeds.ucsc.edu>)

- If you are experiencing challenges related to basic needs, such as food, housing, health & wellness, or financial security, visit the Basic Needs hub for information.

Undocumented Student Services (USS; https://eop.ucsc.edu/undocumented_student_services/index.html)

- Under the umbrella of the Educational Opportunities Programs, Undocumented Student Services (USS) provides personal, academic, financial, and legal support to all UCSC undocumented students, including scholarship and fellowship information, community-building meetings, legal assistance and workshops, and access to fresh produce.

CARE (Campus Advocacy Resources and Education; <https://care.ucsc.edu/>)

- CARE is a confidential space to discuss issues of dating violence, sexual assault, and stalking. CARE advocates provide support in a variety of ways depending on your needs, such as by supporting you in your decision-making; understanding the complexities that can arise from these issues; providing emotional support and free services; and providing resources and referrals. Make an appointment [here](#), or give CARE a call: (831) 502-2273.

STARS (Services for Transfer and Re-Entry Students; <https://stars.ucsc.edu/>)

- STARS provides culturally responsive support to transfer, re-entry, veteran students, as well as students who do not have traditional family support due to experiences in the foster care system, with homelessness, abuse, parents who have been incarcerated, or other factors impacting their family life.

CAPS (Counseling and Psychological Services; <https://caps.ucsc.edu/>)

- If you are in distress, managing heightened stress and anxiety, or want to get more support and a counselor's perspective on something you're going through, CAPS provides a variety of services for your needs—including immediate crisis support, scheduled individual appointments, group counseling, and workshops led by peer advisors.
 - **Call:** (831) 459-2628 (if after operating hours, select option 3 to get connected to an after-hours counselor)
 - **Walk in:** Typically located at the Student Health Center in the East Wing on the 2nd floor (check website for details during remote learning).
 - **Drop-in Services:** Drop-in services include "Let's Talk," a service offered at a variety of campus locations where you can stop by for a one-time talk with a professional counselor to get information or support, and "Relaxation Station," a designated area in the CAPS office designed to help you de-stress.
 - **LGBTQ+ Services:** Resources and counselors with specific awareness of intersecting and non-binary identities.
 - **Scheduled Services:** Includes individual and group counseling.
 - Check out the [Self-Support Library](#)

***For crisis assistance:** <https://caps.ucsc.edu/counseling/crisis-assistance.html>

Important Deadlines

- **Add** - Thursday, June 23
- **Drop** - Monday, June 27 (tuition reversed)
- **No classes** are held in observance of Juneteenth June 20 & Independence Day July 4
- **Request "W" Grade** - Sunday, July 10 (no tuition reversal)
- **Change Grade Option** - Sunday, July 17
- **Grades Due** - Thursday, July 28
- **Financial Aid Disbursement** - June 13 (if enrolled by [June 1 priority timeline](#))