

PSY 305
EXPERIMENTAL PSYCHOLOGY
Spring 2023

Instructor

Çağla Aydın

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Office hours: by appointment

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<https://sabanciuniv.zoom.us/j/98570598304?pwd=WStTZmxBUFNiYnp2RlpGK1pgY2xNdz09>

Meeting ID: 985 7059 8304

Passcode: PSY30523

Course Description

This course will provide you with hands-on experience in designing, conducting, and analyzing research in psychology. In all phases of research, from obtaining IRB approvals to writing up and presenting your research, you will gain exposure to the state-of-the-art open science practices. You will also learn to read and write scientific research articles. By completing these activities, you will develop a deep understanding of how scientific reasoning is used to inform psychological questions. In the lab portion of this course, you will complete activities to support the concepts you have learned in lecture part.

If you are taking this course, you should be comfortable with:

1. Some knowledge on psychological experimentation and subject matter
2. Basic statistics like ANOVA and t-test

Course Information

Website. All communication will happen in the course website on SUCourse. It will be used to post lecture slides (if any), recordings, readings, announcements, and assignments.

Lectures and the Lab. Lectures and discussion will happen on the Tuesday sessions. The lab is an essential part of the course. You will conduct activities to supplement the lecture material and run actual studies.

Course Requirements

Midterm Exam. This will be an in-class, face-to-face exam. The intended exam date is April 25th.

Final Exam (Project Paper). The final exam will consist of submitting your research paper by the deadline. You will lose 5 points for each day the submission is late.

Lab Participation/Project Development

Throughout the semester, you will work on developing a research project—including obtaining ethics approval, preregistering your study, collecting data, and writing up research reports. In order for you to get hands-on experience and timely feedback on these research activities, you will be asked carry them out in class under the teaching team’s close supervision. During these project development sessions, you’ll carry out each activity listed in the course outline by obtaining feedback from us.

Research Participation (Extra Points)

Students can optionally serve as participants in research that is run by Sabancı University researchers. By participating in research, you can get extra points. For this course, you will be able to earn up to 3 extra points. Six research points (1 research point equals ~ 30 minutes of research participation) will be converted to 3 bonus points added to your overall total at the end of the semester. More information on the available research projects will be provided during the semester. You will be able to sign up for the experiments and get your research participation points through the online Sona system at <http://sabanciuniv.sona-systems.com> Please carefully read the Guide for Students: Sabancı University Experiment Credits System (Sona) posted on SUCourse+.

Grading

Midterm	35%
Project Development	30%
Project Paper	
Presentation	10%
Report	15%
Participation	10%

Grade Breakdown

The following grading scheme is used to assign the final grade for the course.

A	100-90	B	79-75	C	64-60	D	49-45
A-	89-85	B-	74-70	C-	59-55	F	44-40
B+	84-80	C+	69-65	D+	54-50	NA*	

*missing more than 50% of the Project Development Sessions (that is, more than 6 sessions)

Disclaimer: We may have to revise the course plan according to the countrywide reassessment to be made regarding higher education. This is expected to happen at the beginning of April. The content to be delivered is certain but the method of course delivery, the number and dates of exams, and some other details are subject to change.

Academic Honesty

Every student in this course is expected to abide by the Sabancı University Academic Integrity Statement. Please see <https://www.sabanciuniv.edu/en/academic-integritystatement>

COURSE OUTLINE

Week 1. Introduction to the course

Week 2. Experiments and theories

Week 3. Replication and reproducibility / Open Science

Week 4. Crisis or Revolution?

Week 5. Measurement; Reliability, Validity

Week 6. Design of experiments & Survey preparation

Simple survey experiments using Qualtrics

Week 7. Research Ethics

Week 8. Introducing Open Science Framework (OSF) / Preregistration issues & Data collection starts

Week 9. Statistical Inference

Week 10. Analyzing experimental data

Week 11. Exam

Week 12. How to write Introduction & Method sections

Week 13. How to write Results, Discussion & Abstract sections

Week 14. Presentations

No lab session. Presentations on both class days

Finals week. Papers due