

**PSY 305**  
**EXPERIMENTAL PSYCHOLOGY**  
**Spring 2022**

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**Instructor**

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**T.A.s / Lab Instructors**

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**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.

**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.* All activities in this course will happen online. There will be lectures by the instructor. 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 (on Zoom) exam. More information to be announced.

*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. To this end, two class hours each week will be dedicated to project development. 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 10 sessions)

### **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>

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## **COURSE OUTLINE**

**Week 1.** Introduction to the course

**Week 2.** Introduction of the research projects

*Lab:* Initial discussion of the research designs

**Week 3.** Crisis or Revolution? Replication issues

*Lab:* Discussion of the research ideas, literature review and start compiling study materials

**Week 4.** Crisis or Revolution?

*Lab:* Discussion of the research ideas, literature review and start compiling study materials

**Week 5.** Statistical power

*Lab:* Devising a recruitment plan and determining sample size

**Week 6.** Research Ethics

*Lab:* Preparing ethics application

**Week 7.** Introducing Open Science Framework (OSF) /Preregistration issues

*Lab:* Data analytic plan. Preregistering the study on OSF

*Watch.* Creating a project on OSF

**Week 8.** Survey preparation / Qualtrics

*Lab:* Preparing the online survey

**Week 9.** Collecting data online

*Lab:* Kicking of data collection

**Week 10.** Analyzing experimental data

*Lab:* Data collection continued

**Week 11.** Exam

**Week 12.** How to write an Introduction

*Lab:* Writing the introduction section / data collection continued

**Week 13.** How to write Method & Results section

*Lab:* Writing the Methods, data analysis, writing the results

**Week 14.** How to write Discussion and Abstract

*Lab:* Writing the discussion and the abstract sections

Finals week. Presentations / Papers due