Sabancı University
Faculty of Arts & Social Sciences
PSY 503: Data Analysis for Psychological Sciences II
Spring 2021
Instructor: Emre Selçuk

Course Description: PSY 503 is the second of a two-part series surveying common data analytic approaches in psychology research. The course will build on PSY 502 and mostly focus on mixed effects models. We will also continue discussing practices to improve the quality of analytic approaches and decisions.

Course Plan: You can find a tentative list of topics below. As in PSY 502, the course will include a mix of video lectures, Zoom meetings, and assignments. There will also be a take-home final exam at the end of the semester. Zoom meetings will take place on Tuesdays at 10:40.

Course Assessment: You will work in groups to complete assignments and on your own to complete a take-home final exam. Assignments will make up 40% of your course grade and the final exam will make up 60%.

Grades: The following grading scheme is used to assign the final grade for the course. No changes can be made to your final grade unless there has been an arithmetical error.

A	100-90	B	79.99-75	C	64.99-60	D	49.99-45
A-	89.99-85	B-	74.99-70	C-	59.99-55	F	44.99-0
B+	84.99-80	C+	69.99-65	D+	54.99-50		

Make-up for missed exams: In order to be eligible to take a make-up exam, you should have a valid and documented excuse.

Academic Integrity: Every student is expected to abide by the Sabancı University Academic Integrity Statement. Please see https://www.sabanciuniv.edu/en/academic-integrity-statement

Tentative List of Topics

Please note that the emphasis is on tentative. We will try to cover as much as we can during the semester. We may add or remove topics depending on our progress. The goal is to make sure that you master each topic we cover.

Introductory concepts on mixed effects models
Fixed vs. random effects
Partitioning random variation to sources
Random intercept & random slope models
Hierarchical linear models
Growth curve models
Cross-classified models
Factor analysis