

**PSY 305: Experimental Psychology**  
**LAB SESSION OUTLINE**

**Week 1.** Introduction to the course

**Lab:** Elicit, Research Rabbit, Zotero demonstration

**Week 2.** Experiments and theories

**Lab:** Discussing psychological well-being study examples and initial research designs

1. Geng, Y., Huang, C. C., Deng, G., Cheung, S. P., & Liao, J. (2022). Volunteering and psychological wellbeing in college students in China. *Asian Social Work and Policy Review*, 16(2), 185-196.
2. McDaniel, B. T., & Coyne, S. M. (2016). “Technoference”: The interference of technology in couple relationships and implications for women’s personal and relational well-being. *Psychology of Popular Media Culture*, 5(1), 85.

**Week 3.** Replication and reproducibility / Open Science

**Lab:** Discussion of the research ideas, literature review

**Lab Task:** Submitting an initial idea that may change

**Week 4.** Crisis or Revolution?

**Lab:** Discussion of the research ideas and study materials // Finalizing research ideas and design

**Lab Task:** Submitting final research ideas and proposed study design

**Week 5.** Measurement; Reliability, Validity

**Lab:** Sample size estimation demonstration & exercise

**Lab Task:** Submitting an analysis plan which includes necessary tests for the research questions & effect size based on the literature (provide the evidence) & sample size calculation

**Week 6.** Design of Experiments

**Lab:** Preparing online surveys // Mini lecture for Qualtrics and similar tools

**Lab Task:** Submitting the initial version of the surveys, Submitting exclusion criteria

**Week 7.** Research Ethics

**Lab:** Discussing problems about the survey preparation and Qualtrics; Ethics Form demonstration

**Lab Task:** Consent form & submitting the final version of the surveys based on the feedback

**Week 8.** Introducing Open Science Framework (OSF) / Preregistration issues

**Lab:** OSF; Data Collection starts

**Week 9.** Statistical Inference

**Lab:** Discussing possible problems about data collection

**Week 10.** Analyzing experimental data

**Lab:** JASP or Jamovi lecture, playing with data file

**Week 11.** Exam (Data collection ends)

**Week 12.** How to write Introduction & Method sections

**Lab:** Writing the introduction section

**Lab Task:** Submitting the Methods section

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

**Lab Task:** Submitting the Results section

**Week 14.** Presentations

**Lab:** Presentations

Finals week. Papers due