

PSYC 3000 A : DESIGN AND ANALYSIS IN PSYCHOLOGICAL RESEARCH

Instructor	Ahmad Sohrabi
Term	Fall 2026/Winter 2027
Course Delivery	In-Person
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COURSE DESCRIPTION/INSTRUCTOR'S STATEMENT

Psychology like other scientific fields is heavily relying on experimental research, involving design, measurements, and data analysis. The research is not necessarily done through devices but must obey specific rules, usually by having participants filling out standard questionnaires. Other tools and instruments are very common, including bodily measures, neurophysiological, and cognitive scales. In this course we review basic design and analysis methods focused on the state of art procedures and findings in psychology. We will be performing various activities and assignments including paper reviews, hands-on research, and data analysis using current techniques and software apps such as online tests, SPSS, and Excel as well as brief R and python one-liner codes!

EVALUATION (SUBJECT TO CHANGE)

Item	Date
In-Class Activities	Weekly
Lab assignments	Bi-Weekly
Projects & Presentations	Monthly
Mid-term exams	Nov 2 nd & Feb 1 st
Final exam	Apr

TEXT

Textbook:

- Statistical Thinking for the 21st Century, Russell A. Poldrack (online open access)
- Resources for lab and class computer activities:
 - Doing Quantitative Research in Education with IBM SPSS Statistics, Daniel Muijs (online free)
 - <https://github.com/statsthinking21> (online open access)