

PSYC 3000 E: DESIGN AND ANALYSIS IN PSYCHOLOGICAL RESEARCH

Instructor	Nicolas Laham
Term	Fall 2025 & Winter 2026
Course Delivery	In-person
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Office Location	Loeb A530
Office Hours	By appointment

COURSE DESCRIPTION/INSTRUCTOR'S STATEMENT

This course will provide students with a solid foundation in data analysis with applications to the social sciences. From this course, the student should develop a well-rounded understanding of data, how to visualize it, how to describe it, and, most importantly, how to draw just inferences from it via modeling and experimental design. Also, the student should gain software skills in SPSS and, if they choose to, R. Some hand calculations will be required, but the greater focus of the course will be to gain knowledge and experience in the analysis of data in experimental and observational contexts via software.

EVALUATION (SUBJECT TO CHANGE)

4 tests (40% = 4 * 10%)

2 group assignments (40% = 2 * 20%)

1 group final project presentation (20%)

Bonus marks

Attendance Fall 2025 & Winter 2026 (4%)

Book review (2%)

TEXT

Howell, D. C. (2017). *Fundamental statistics for the behavioural sciences* (9th Ed.). Cengage.

Optional text for bonus marks

Stigler, S. (2016). *The seven pillars of statistical wisdom*. Harvard University Press.

Required software: SPSS

Optional software: R