

PSYC 3000 D : DESIGN AND ANALYSIS IN PSYCHOLOGICAL RESEARCH

Instructor	Nima Orazani
Term	Fall 2026/Winter 2027
Course Delivery	In-Person
Email Address	nimaorazani@cunet.carleton.ca
Office Hours	TBD

COURSE DESCRIPTION/INSTRUCTOR'S STATEMENT

Come and join me to ease some of the anxieties we might experience encountering this ostensibly multi-headed dragon we call statistics. We do this together in PSYC 3000 E which is a full-year, in-person advanced undergraduate statistics course, and is built on PSYC 2002. We will learn when we should use parametric (t-tests, ANOVA, regression, etc.) and nonparametric (Chi-Square test, Mann-Whitney U test, etc.) tests, what are their assumptions, if any, how we should see if these assumptions are met, how we can run these tests in SPSS, how we should interpret the results and how we should report them. What is important for us is to learn the logic behind each statistical tests. We also dig a little bit deeper in mathematical background of these tests. Students will also practise communicating statistical results clearly and accurately in written form. By the end of the course, we should comfortably use SPSS for a variety of statistical analyses, especially, those analyses we need for our honours project or honours thesis. This section is a good fit for students who are comfortable attending class in person.

EVALUATION (SUBJECT TO CHANGE)

Evaluation Methods	Weight
Beginning-of-Class Quizzes	10
Midterm Exam	20
Final Exam	20

Class Activities and Group Presentations	10
Data analysis / SPSS portfolio	20
Home assignments	20
Sona Participation	5
extra credit assignment	5

This evaluation scheme will be discussed with you and we might decide to make some changes.

TEXT

Field, A. (2024). Discovering statistics using SPSS (6th ed.). Sage Publications, Inc.