

## Brief Course Outline

**Course Title:** **Computers & Research in Psychology**

**Course Number and Section:**

PSYCHOL

3830F 550

**Instructor Name(s):** Ana Ruiz Pardo

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Disclaimer: Information in the brief course outline is subject to change. The syllabus posted on OWL is the official and authoritative source of information for the course.

### Course Description:

Topics include: fundamentals of operating microcomputers, use of statistical packages (e.g., SPSS/PC+), interpretation of computer output from univariate and multivariate statistical analyses.

### Learning Outcomes:

Determine the appropriate statistical test for various types of data in psychology
Conduct a variety of statistical tests using computer software
Write an APA-style results section reporting the outcomes of common statistical tests
Design and conduct an empirical research study

### Textbooks and Course Materials:

SPSS: A Field, A. (2024). *Discovering Statistics Using IBM SPSS Statistics*, North American edition (6th ed). Sage: London.

JASP: Navarro DJ, Foxcroft DR, Faulkenberry TJ. (2019). *Learning statistics with JASP: A tutorial for psychology students and other beginners*. Available at <https://learnstatswithjasp.com/>

EXCEL: You should also have Microsoft Excel installed from the UWO Microsoft 365 Office package site (free for students): <https://wts.uwo.ca/sitelicense/microsoft/homeuse.html>

### Methods Of Evaluation:

Assignment	Due Date mm/dd/yy	Weight - %
Q01: Correlation & Linear Regression	09/25/24	5
A01: Multiple Regression	10/02/24	10
A02: t-tests	10/09/24	10
Q02: One-way ANOVA	10/23/24	5

Assignment	Due Date mm/dd/yy	Weight - %
A03: Factorial ANOVA	10/30/24	10
Q03: Repeated Measures ANOVA	11/06/24	5
A04: Mixed ANOVA	11/13/24	10
Q04: Factor Analysis	11/20/24	5
Q05: Chi-Square	11/27/24	5
Final Exam	TBD	35

In solidarity with the Anishinaabe, Haudenosaunee, Lūnaapéewak, and Chonnonton peoples on whose traditional treaty and unceded territories this course is shared.

Friday, August 16, 2024