

## PSYC 5411 W – ADVANCED REGRESSION

<b>Course</b>	PSYC 5411 W: Advanced Regression
<b>Instructor</b>	Andrea Howard
<b>Term</b>	Winter 2021
<b>Email Address</b>	Andrea.Howard@Carleton.ca
<b>Office Location</b>	
<b>Office Hours</b>	TBD

### COURSE DESCRIPTION/INSTRUCTOR'S STATEMENT

This course expands on the work begun in PSYC 5410 and extends concepts from ANOVA to the broader case of regression analysis. Topics include correlation, simple and multiple regression, model building, best practices in hypothesis testing, power and effect size, coding categorical predictor variables, testing interactions (moderation), and mediation analysis.

In weekly TA-led tutorial sessions, students will practice data skills in the R software environment including, but not limited to: running correlation and regression analyses, data management, graphical displays of data, and simulating data.

### EVALUATION

Classes will meet online once per week. Lectures will be live with demonstrations and student participation. Lectures will also be recorded and made available on cuLearn. A lab session will also take place weekly and the mode of delivery (live or pre-recorded) will be decided at a later time.

Course evaluation will be as follows:

50% Online quizzes/problem sets (Students' best 5 out of 6 assignments count for 10% each)

25% Take-home, open-book midterm exam

25% Take-home, open-book final exam

### TEXT

TBD