

PSYC*6380, Course Outline: Winter 2025

General Information

Due to the ongoing COVID-19 pandemic some courses are being offered virtually and some face to face. **This course is offered using the Alternate-Delivery-Synchronous (AD-S) format. There is an assigned day and time for class lectures, but no classroom, because lectures are delivered virtually.**

Course Title: Psychological Applications of Multivariate Analysis

Course Description:

This course begins with regression as a basis for building an understanding of ANOVA with fixed and random effects. This coverage of ANOVA includes understanding the role of contrast matrices. Next, regression with continuous predictor variables, including interaction effects, is covered. The regression foundation building to full-fledge multilevel analysis.

Credit Weight: 0.50

Academic Department (or campus): Psychology

Semester Offering: W25

Class Schedule and Location: 11:30am to 2:20pm Thursdays (Zoom)

Instructor Information

Instructor Name: David Stanley, PhD

Instructor Email: dstanley@uoguelph.ca

Office location and office hours: TBA, Zoom classroom link.

Course Content

Specific Learning Outcomes:

Specific Learning Outcomes:

1. Literacy. Facet 2. Methodological literacy: the ability to understand, evaluate, and design appropriate methodologies for rigorous psychological science
2. Literacy. Facet 3. Quantitative literacy: includes numeracy, and competence in working with numerical data
3. Literacy. Facet 4. Technological literacy: the ability to select and use appropriate technology

Lecture Content:

1. Regression with categorical predictors
2. Multiple regression with continuous/categorical predictors
3. Multilevel Models

Course Assignments and Tests:

Assignment or Test	Due Date	Contribution to Final Mark (%)	Learning Outcomes Assessed
Midterm 1	February 13 – in class	30%	1, 2, 3
Midterm 2	March 20 in class	30%	1, 2, 3

Final examination date and time: April 17, 8:30am (online via Courselink)

Final exam weighting: 40% (cumulative exam)

[Examination Regulations](#)

Course Resources

Required Texts:

Huang, F. L. (2022). Practical multilevel modeling using R. Sage Publications.

Snijders, T. A., & Bosker, R. (2011, 2nd Edition). Multilevel analysis: An introduction to basic and advanced multilevel modeling.

Cost of Texts:

Textbook / Learning Resource	Required / Recommended	Cost*
Practical Multilevel Modeling Using R	Required	\$160.25 \$103.00 (kindle)
Multilevel analysis: An introduction to basic and advanced multilevel modeling (2 nd Edition)	Required	\$65.50 (kindle)

*Costs are subject to change.

Other Resources:

[PSYC 6380 Class Website](#) (free)

Course Policies

Grading Policies

[Graduate Grade interpretation](#)

Course Policy on Group Work:

All midterms and exams should be completed on an individual basis.

Course Policy regarding use of electronic devices and recording of lectures:

Electronic recording of classes by students is expressly forbidden without consent of the instructor. When recordings are permitted, they are solely for the use of the authorized student and may not be reproduced, or transmitted to others, without the express written consent of the instructor. Lectures may occasionally be recorded for the purpose of documenting teaching practices for the Dean's office. If you do not want to appear in this teaching documentation, please inform the instructor via email.

Student Rights and Responsibilities when Learning Online

Online behaviour

According to the University Secretariat, students have a responsibility to help support community members' access to the tools they need to engage in their learning and development, both in and outside of the classroom. An example of this type of responsibility is the requirement to abide by the following:

Section 4.3.3. Disruption - to not interfere with the normal functioning of the University, nor to intimidate, interfere with, threaten or otherwise obstruct any activity organized by the University, including classes, or to hinder other members of the University community from being able to carry on their legitimate activities, including their ability to speak or associate with others.

As such, appropriate online behaviour will not be tolerated. Examples of inappropriate online behaviour include

- Posting inflammatory messages about your instructor or fellow students
- Using obscene or offensive language online
- Copying or presenting someone else's work as your own
- Adapting information from the Internet without using proper citations or references
- Buying or selling term papers or assignments
- Posting or selling course materials to course notes websites
- Having someone else complete your quiz or completing a quiz for/with another student

- Stating false claims about lost quiz answers or other assignment submissions
- Threatening or harassing a student or instructor online
- Discriminating against fellow students, instructors and/or TAs
- Using the course website to promote profit-driven products or services
- Attempting to compromise the security or functionality of the learning management system
- Sharing your username and password

University Policies

Disclaimer:

Please note that a revision of the format of course offerings, changes in classroom protocols, and academic schedules is occasionally required. Any such changes will be announced via CourseLink and/or class email. This includes on-campus scheduling during the semester, mid-terms and final examination schedules.

Academic Consideration

When you find yourself unable to meet an in-course requirement because of illness or compassionate reasons, please advise the course instructor in writing, with your name, id#, and e-mail contact. See the academic calendar for information on regulations and procedures for

Academic Consideration:

[Grounds for Academic Consideration](#)

Academic Misconduct

The University of Guelph is committed to upholding the highest standards of academic integrity and it is the responsibility of all members of the University community, faculty, staff, and students to be aware of what constitutes academic misconduct and to do as much as possible to prevent academic offences from occurring.

University of Guelph students have the responsibility of abiding by the University's policy on academic misconduct regardless of their location of study; faculty, staff and students have the responsibility of supporting an environment that discourages misconduct. Students need to remain aware that instructors have access to and the right to use electronic and other means of detection. Please note: Whether or not a student intended to commit academic misconduct is not relevant for a finding of guilt. Hurried or careless submission of assignments does not excuse students from responsibility for verifying the academic integrity of their work before submitting it. Students who are in any doubt as to whether an action on their part could be construed as an academic offence should consult with a faculty member or faculty advisor.

The Academic Misconduct Policy is detailed in the [Graduate Calendar](#):

Illness

Medical notes will not normally be required for singular instances of academic consideration, although students may be required to provide supporting documentation for multiple missed assessments or when involving a large part of a course (e.g., final exam or major assignment).

Accessibility

The University of Guelph is committed to creating a barrier-free environment. Providing services for students is a shared responsibility among students, faculty and administrators. This relationship is based on respect of individual rights, the dignity of the individual and the University community's shared commitment to an open and supportive learning environment. Students requiring service or accommodation, whether due to an identified, ongoing disability or a short-term disability should contact [Student Accessibility Services](#) as soon as possible.

For more information, contact SAS at 519-824-4120 ext. 54335 or email accessibility@uoguelph.ca or the [Student Accessibility Services Website](#)

Student Feedback Questionnaire

These questionnaires (formerly course evaluations) will be available to students during the last 2 weeks of the semester. Students will receive an email directly from the Student Feedback Administration system which will include a direct link to the questionnaire for this course. During this time, when a student goes to login to Courselink, a reminder will pop-up when a task is available to complete.

[Student Feedback Questionnaire](#)

Drop date

The last date to drop one-semester courses, without academic penalty, is Friday April 4, 2025. For regulations and procedures for Dropping Courses, see the [Schedule of Dates in the Academic Calendar](#).

Instructors must provide [meaningful and constructive feedback, at minimum 20% of the final course grade, prior to the 40th class day](#). For courses which are of shorter duration, 20% of the final grade must be provided two-thirds of the way through the course.

[Current Graduate Calendar](#)