Faculty of Health
Department of Psychology
PSYC 3010 3.0 M: INTERMEDIATE RESEARCH METHODS
Tuesdays 5:30pm in HNE 103
Winter 2024

- We will meet in person **every Tuesday at 5:30pm**! We will potentially go as late as 8:30pm. At times there may be brief video recordings for students to watch ahead of live class meetings, but notice will be provided by the instructor in these instances.
- Students are expected to attend weekly in-class meetings for delivery of course content, class discussions and activities, and to work on team projects during class time. As this is an application-based course, active participation in these sessions is required and participation marks will be awarded for attending classes throughout the semester. Although class time will be provided for students to work with their teams, additional work on team projects is nonetheless expected outside of class.

Instructor and T.A. Information

Instructor: Linda Farmus (lfarmus@yorku.ca)
There are no set office hours; please email me with any questions or concerns you have. If necessary, individual online meetings can be arranged. Please email using your York student email and include PSYC3010M in the subject box and your full name and student number in the signature of the message.
It might take up to 3 business days (Monday to Friday) to respond to emails. Emails sent over the weekend will be answered as soon as possible during the normal work week (Monday to Friday). Keep these timelines in mind, especially when emailing about deadline sensitive issues.

Course Prerequisite(s): Course prerequisites are strictly enforced

- HH/PSYC 1010 6.00 (Introduction to Psychology)
- HH/PSYC 2020 6.00 (Statistical Methods I and II) or HH/PSYC 2021 3.00 (Statistical Methods I)
- HH/PSYC 2030 3.00 (Introduction to Research Methods)
- Completed at least 54 earned credits

Course Credit Exclusions

Please refer to York Courses Website for a listing of any course credit exclusions.

Course website: eclass

All course materials will be available through eClass, unless otherwise indicated by the instructor. This includes important details about the course format, lecture slides, supplemental content, assignment instructions and submissions, and grades. Most communications from instructor to students en masse will take place through eClass's Course Announcements, which should be checked regularly.

It is absolutely necessary that you regularly attend classes and access eClass to be successful in this course. Following initial orientation, it is the student's responsibility to become comfortable with using eClass for the purposes of this course. Additional support resources are available in the Student Guide to eClass

Course Description

This course is an intermediate level methodological course that will provide further experience with the design, execution, analysis, interpretation and communication of psychological research. Building on the foundation established in *Introduction to Research Methods* and *Statistical Methods I & II*, this course prepares students for many types of advanced research courses and Honours thesis projects.
This course is highly experiential and involves completing a hands-on research project from idea generation through knowledge dissemination. **Students will take an active role in their learning by designing and executing their own research studies in teams of 5 to 6 students.**

By the end of this course, you will have developed and honed transferable skills important to your future courses, workplace and personal lives, including the ability to: (a) be a critical consumer of claims and scientific evidence; (b) evaluate, analyze, and interpret data; (c) communicate the results of research effectively to both scientific and layperson audiences; and (d) work effectively with a group of peers.

Program Learning Outcomes

Upon completion of this course, students should be able to:

1. Explain and critique psychological methodologies across sub-disciplines.
2. Generate testable hypotheses in psychology.
3. Analyse and interpret results from simple psychological studies.
4. Express in written form psychological findings using APA style.
5. Demonstrate knowledge that conclusions are limited by research methods.

Suggested Texts

There is no required text for this course, but the following references are directly relevant:

Any undergraduate text on Research Desing and Methods.

American Psychological Association (2019*). Publication manual of the American Psychological Association* (7th edition). American Psychological Association.

- (a good free online APA resource is Owl@Purdue)

Navarro, D.N. & Foxcroft, D.R. (2019). *Learning statistics with jamovi: A tutorial for psychology students and other beginners*. Retrieved from https://www.learnstatswithjamovi.com

Navarro, D. J. (2016). *Learning statistics with R: A tutorial for psychology students and other beginners (Version 0.6)*. Retrieved from https://learningstatisticswithr.com/

Foster et al. (2018) https://open.umn.edu/opentextbooks/textbooks/an-introduction-to-psychological-statistics

O'Leary, Z. (2021). *The essential guide to doing your research project* (4th edition). SAGE Publications, Ltd.

- Any edition would be helpful so if you want to buy try to find a used copy!

Beins, B.C., & Beins, A.M. (2020). *Effective writing in psychology: Papers, posters and presentations* (3rd edition). John Wiley & Sons, Inc.

- Earlier editions would be fine as well but beware of references to previous APA versions

Suggested Software

Students will be required to analyze data using statistical software as part of their team research projects. Students should choose from the following options:

- R (can be downloaded at https://www.r-project.org/)
- jamovi (can be downloaded at https://www.jamovi.org/)
- JASP (can be downloaded at www.jasp-stats.org)
- StatsCloud (can be downloaded/accessed at https://statscloud.app/)

Software to use should be chosen based on the team members' level of comfort with statistics and statistical software. jamovi, JASP, and StatsCloud are easy to learn and user friendly options, and there are many online tutorials available for them. R is probably the most challenging to initially learn but has a high return on investment as it has high capabilities and is popular among social science researchers.

Additional resources to support student use of statistical software are available on eClass; students are also encouraged to seek out additional supplemental resources as needed through YouTube, Google, Stack Overflow (https://stackoverflow.com/), or other sources. You can share resources you find with your peers on the Student Forum on eClass.

Course Requirements and Assessment:

Assessment	Assessment Type	Date of Evaluation (if known)	Weighting
TCPS Training + Research Confidentiality Agreement	Indiviudal	January 23	5%
Proposal Presentation	Team	January 30	10%
Online Survey (Qualtric)	Team	February 6 (drafts) February 14 (final version)	0%
Study Pre-registration Form	Team	February 20	15%

Assessment	Assessment Type	Date of Evaluation (if known)	Weighting
Poster Presentation	Team	March 19	15%
Knowledge Translation Assignment	Team	March 26	15%
Final Research Report	Individual	April 9	30%
Participation	Individual	Ongoing	10%
Total			**100%**

Description of Assignments

Assessments in this course include a combination of team and individual based evaluations of your learning. Most assessments will be submitted through eClass, other than presentations as specified.

Tri-Council Policy Statement (TCPS) Training + Research Confidentiality Agreement

Students must complete online training in Ethical Conduct for Research Involving Humans (TCPS 2) no later than January 23rd, 2024 in order to complete 3010M. This training can be accessed online (http://tcps2core.ca/welcome) and a certificate of completion will be provided once complete.
Students must submit a PDF of their certificate of completion through eClass by the specified deadline in order to complete the course.

Students must also complete a Research Confidentiality Agreement (available on eClass) no later than January 23rd, 2024 in order to complete the course. **Students must submit a PDF of their Research Confidentiality Agreement through eClass by the specified deadline in order to complete 3010M.**

You must submit both documents (TCPS Training Certificate and Research Confidentiality Agreement) in order to earn 5% toward your final grade; failing to submit either will result in a 0 for this component. **As per York University policy, students will not be permitted to participate in required research for this course until the TCPS certificate of completion is submitted.**

Proposal Presentation

Research teams will work collaboratively to create and present a proposal of their research study. This proposal presentation will include:

- introduction to topic, brief review of background literature & existing research, rationale for the study, statement of hypotheses
- a description of how your variables will be operationalized and measured

More information about creating effective proposal presentations will be provided in class.

Study Pre-registration Form

Research teams will work collaboratively to complete a mock Study Pre-registration using a template provided by the professor. This process will closely follow that used by researchers when pre-registering their research studies, prior to data collection.

Online Survey

Each research team will create an online survey for data collection using Qualtrics. More information on using Qualtrics and designing good online surveys will be provided through eClass and during class.

Poster Presentation

Research teams will work collaboratively to create and present a Poster Presentation of their research studies. More information about creating effective posters will be provided on eClass and during class. Posters will include the following information in a visually appealing presentation format:

- background literature, rationale, and justification of project
- hypotheses tested
- methods used
- results
- discussion/interpretation of results

Knowledge Translation Assignment

Research teams will work collaboratively to create a layperson summary of their research project's findings. More information about the format of the Knowledge Translation Assignment and how to write about research findings for laypersons will be provided in class.

Final Research Report

Each student will write an APA-style report of their team's research project. **It is expected that you write and complete this component individually.** More information about the final research report will be provided in class.

Participation

Class participation will contribute to half (5%) of each students' participation grade. The remaining half (5%) of the participation grade will be tied to team members' end of term evaluation of each others' contributions to the collaborative research project. Even with perfect attendance to class, students who are reported by their team members as being uninvolved in the group project will receive a penalty to their participation grade. In the rare instance where a major lack of contribution is reported to the instructor during the term the student in question may be removed from their group.

Class Format and Attendance Policy

We will meet at 5:30pm each week -- classes will involve reviewing concepts, discussing questions, and engaging in extensive team-based work on your research projects. The material and group work will progressively build each week. Thus, attendance to weekly classes is strongly encouraged as it will enhance your overall learning experience and and will be taken midway through each class.

Attendance is especially mandatory on Proposal Presentation (January 30th) and Poster Presentation (March 29th) days. Failure to attend class on either of these days will result in an individual grade of 0 on the relevant presentation, unless you have a valid documented reason for missing the presentation day.

\and enhances your overall learning experience. These sessions will also help you to stay on track with the course material.

Grading as per Senate Policy

The grading scheme for the course conforms to the 9-point grading system used in undergraduate programs at York (e.g., A+ = 9, A = 8, B+ = 7, C+ = 5, etc.). Assignments and tests* will bear either a letter grade designation or a corresponding number grade (e.g. A+ = 90 to 100, A = 80 to 89, B+ = 75 to 79, etc.)

For a full description of York grading system see the York University Undergraduate Calendar – Grading Scheme for 2023-24ate

Late Assignments

Late/Missed Presentations

Presentations (Proposal, Poster) are due and to be delivered in class on the dates specified. Failure to do so will result in a grade of 0. All students are expected to attend presentation days; failure to attend on these days will result in an individual grade of 0 on the relevant presentation (regardless of that individual's group's presentation grade) unless a valid documented reason is provided to the instructor by email **before** the presentation day.

Late Assignments

The below policy corresponds to the Study Pre-registration Form, Knowledge Translation, and Final Research Report assignments **only**.

These assignments have a 2-day grace period where students can submit after the deadline at no penalty. Assignments submitted *beyond this 2 day grace period* will receive a *5% per day late penalty up to a total of 3 days* (i.e., up to 5 days after original due date). No assignments will be accepted 5 days beyond their due date; assignments more than 5 days late will receive a grade of 0.

> Example: The deadline for the Study Pre-registration Form is February 20th at 11:59pm. If additional time is needed (due to illness, falling behind, having a lot of deadlines around then, perfectionism, etc.), students can submit their assignment with no late penalty until February 22nd at 11:59pm. Study Pre-registration Forms submitted February 23rd, 24th, or 25th will receive a 5% per day late penalty (e.g., 5%, 10%, 15% penalty, respectively). Assignments not submitted by February 25th at 11:59pm will receive a grade of 0.

Please note that late submissions of assignments may nonetheless result in delays of individuals or research teams obtaining feedback on submitted material which will support completion of subsequent course work.

For any late assignment (after the 2-day grace period), students MUST complete the following online form which will be received and reviewed in the Psychology undergraduate office. At this time, due to COVID-19 an Attending Physician's Statement (APS) is not required, however, a reason for being late on an evaluated component in the course must be provided.

HH PSYC: Missed Tests/Exams Form. Failure to complete the form within 48 hours of the original deadline will result in a grade of zero for the late assignment.

Add/Drop Deadlines

For a list of all important dates please refer to: Undergraduate Fall/Winter 2023-2024 Important Dates

	Fall (Term F)	Year (Term Y)	Winter (Term W)
Last date to add a course **without permission** of instructor (also see Financial Deadlines)	Sept. 20	Sept. 20	Jan. 22
Last date to add a course **with permission** of instructor (also see Financial Deadlines)	Sept. 28	Sept. 28	Jan. 31
Drop deadline: Last date to drop a course without receiving a grade (also see Financial Deadlines)	Nov. 8	Feb. 8	Mar 11
Course Withdrawal Period (withdraw from a course and receive a grade of "W" on transcript – see note below)	Nov. 9 - Dec. 5	Feb. 9 - April 8	March 12 - April 8

Add and Drop Deadline Information

There are deadlines for adding and dropping courses, both academic and financial. Since, for the most part, the dates are **different**, be sure to read the information carefully so that you understand the differences between the sessional dates below and the Refund Tables.

You are strongly advised to pay close attention to the "Last date to enrol without permission of course instructor" deadlines. These deadlines represent the last date students have unrestricted access to the registration and enrolment system.

After that date, you must contact the professor/department offering the course to arrange permission.

You can drop courses using the registration and enrolment system up until the last date to drop a course without receiving a grade (drop deadline).

You may withdraw from a course using the registration and enrolment system after the drop deadline until the last day of class for the term associated with the course. When you withdraw from a course, the course remains on your transcript without a grade and is notated as 'W'. The withdrawal will not affect your grade point average or count towards the credits required for your degree.

Electronic Device Policy

It is expected that students will have a laptop or other device during in-person sessions to participate in activities and group work sessions. If you do not have your own device you can pair-up with another student to facilitate your learning.

Use of electronic devices to share information in any form (e.g., screenshots) about personal feedback received on submitted work or work related to course assessments will be considered a violation of the electronic policy. Unauthorized sharing of these detailys and/or other course materials in any way (e.g., WhatsApp group, Reddit, Discord, etc.) is strictly prohibited.

Information on Plagiarism Detection

All submitted work is subject to plagiarism detection screening, which includes but is not limited to: TurnItIn, manual online searches, and automatic text-matching software.

Academic Integrity for Students

York University takes academic integrity very seriously; please familiarize yourself with Information about the Senate Policy on Academic Honesty.

It is recommended that you review Academic Integrity by completing the Academic Integrity Tutorial and Academic Honesty Quiz

Test Banks

The offering for sale of, buying of, and attempting to sell or buy test banks (banks of test questions and/or answers), or any course specific test questions/answers is not permitted in the Faculty of Health. Any student found to be doing this may be considered to have breached the Senate Policy on Academic Honesty. In particular, buying and attempting to sell banks of

test questions and/or answers may be considered as "Cheating in an attempt to gain an improper advantage in an academic evaluation" (article 2.1.1 from the Senate Policy) and/or "encouraging, enabling or causing others" (article 2.1.10 from the Senate Policy) to cheat.

Participating in group chats other than the Student Forum on eClass (e.g., What'sApp, Discord, Reddit, etc.) in the interest of forming a course community that is solely for the students enrolled in this course is permitted, but students should proceed with caution for the following reasons:

1. The professor, psychology department and York University overall have limited jurisdiction over adverse behaviours (e.g., hacking, bullying, etc.) that may occur in these contexts. That means that it is difficult for the professor to monitor if an unsafe situation arises. If such an event occurs, students are advised to shut down the group and form a new one. You should also inform the professor should the adverse behaviour be committed by another student in the course. To reduce the risk of external individuals joining a course chat group please only share links to the group through private means (i.e., don't post the link publicly on Reddit) and share only with other members of PSYC3010M.
2. The sharing of screenshots of emails or responses provided by the professor through emails is not permitted in course community group chats. All email communications between student and professor/teaching team are considered private and should not be shared in their totality without express permission from the professor.

Academic Accommodation for Students with Disabilities

While all individuals are expected to satisfy the requirements of their program of study and to aspire to do so at a level of excellence, the university recognizes that persons with disabilities may require reasonable accommodation to enable them to do so. The university encourages students with disabilities to register with Student Accessibility Services (SAS) to discuss their accommodation needs as early as possible in the term to establish the recommended academic accommodations that will be communicated to Course Directors as necessary. Please let me know as early as possible in the term if you anticipate requiring academic accommodation so that we can discuss how to consider your accommodation needs within the context of this course. https://accessibility.students.yorku.ca/

Excerpt from Senate Policy on Academic Accommodation for Students with Disabilities

1. Pursuant to its commitment to sustaining an inclusive, equitable community in which all members are treated with respect and dignity, and consistent with applicable accessibility legislation, York University shall make reasonable and appropriate accommodations in order to promote the ability of students with disabilities to fulfill the academic requirements of their programs. This policy aims to eliminate systemic barriers to participation in academic activities by students with disabilities.

All students are expected to satisfy the essential learning outcomes of courses. Accommodations shall be consistent with, support and preserve the academic integrity of the

curriculum and the academic standards of courses and programs. For further information please refer to: York University Academic Accommodation for Students with Disabilities Policy.

Course Materials Copyright Information

These course materials are designed for use as part of the PSYC3010M course at York University and are the property of the instructor unless otherwise stated. Third party copyrighted materials (such as book chapters, journal articles, music, videos, etc.) have either been licensed for use in this course or fall under an exception or limitation in Canadian Copyright law.

Copying this material for distribution (e.g., uploading material to a commercial third-party website) may lead to a violation of Copyright law. Intellectual Property Rights Statement.

Course Schedule (subject to change**)**

If you would like to provide a week-by-week course schedule please add this here.

Week	Date	Topic	What's Due When?
1	Jan 9	Course overview, research project topics & team formation TCPS training overview	
2	Jan 16	Designing a research study Knowledge Development: Research Proposals	**Research teams formed (Jan 16 @ 12 noon: email members, team name to Linda Farmus)**
3	Jan 23	Creating online surveys in Qualtrics	**Research team topics selected (Jan 23)** **TCPS Training Certificate & Research Confidentiality Agreement (Jan 23)**
4	Jan 30	**Proposal Presentations Day**	**Proposal presentations**
5	Feb 6	Pre-registration overview + ethical data storage	**Qualtrics survey drafts completed (Feb 6: email link to Linda Farmus)**
6	Feb 13	Workshop day: Final adjustments to Qualtrics surveys, work on pre-registration forms	*Data collection period: Feb 14 – Feb 26* **Study Pre-registration Form (Feb 20th + 2-day grace period)**
	Feb 17-23	***READING WEEK***	***NO CLASSES!!***
7	Feb 27	Data analysis (Day 1): Measurement reliability & score calculations, cleaning data, descriptive statistics	

8	Mar 5	Knowledge Dissemination: Effective Poster Presentations, Research Reports Data analysis (Day 2): Inferential statistics & interpreting results	
9	Mar 12	Knowledge Translation: Research Results for Laypersons Workshop day: Work on analyses, posters	
10	Mar 19	**Poster Fair Day**	**Poster presentations (in class)**
11	Mar 26	Catch up day! Drop in class for help as needed	**Knowledge Translation Assignment (March 29 + 2-day grace period)**
12	Apr 2	Course Wrap Up Final consultation on research reports	
	Apr 14		**Final Research Report (April 14 + 2-day grace period)**

This is not a rigid, fixed schedule.