

**University of Waterloo**  
**Department of Psychology**  
**Psychology 390**  
**Research in Cognition & Perception**  
**Winter 2020**  
**Tuesdays/Thursdays 8:30am - 9:50am, PAS 4032**

**Instructor and T.A. Information**

Instructor: Alex Walker

Office: PAS 4044

Office Hours: by appointment

Email: a24walke@uwaterloo.ca

Teaching Assistant: Martin Turpin

Office: PAS 4043

Office Hours: TBA

Email: mhturpin@uwaterloo.ca

**Course Description**

In this course, small teams of students will develop and execute a replication of a published research study. Teams will create a replication protocol and all relevant study materials, obtain ethics clearance to conduct the study, do all necessary programming to conduct the study online, collect data through an online participant panel, analyze the results, and present them both in a written report and in an in-class presentation. Much of our class meeting time will be devoted to teamwork on the projects, evaluation and feedback from the instructor, TA, and fellow classmates, and informal class discussion of various challenges to conducting direct replications of previously-published research in cognition.

**Readings Available on LEARN**

Please see the course site on LEARN for assigned readings and other course-relevant material.

**Course Requirements and Assessment**

For each course component below, the team will also be asked to complete a contribution form indicating each team member's contribution to the team's work on the component. All team members must agree on the final version of the contribution form before it is submitted to the instructor. At the end of the term each student can also share their perceptions of team member contributions via a private survey that will be distributed via Learn.

<b>Component/Deliverable</b>	<b>Date Due</b>	<b>Weighting</b>
draft study proposal	Monday, January 20 (noon)	5%
ethics application	Friday, January 24 (noon)	10%
proposal presentation (slides)	Wednesday, February 5 (noon)	15%

final study proposal & materials	Friday, February 7 (noon)	15%
Qualtrics program	Friday, February 14 (noon)	10%
final datafile	Friday, March 6 (noon)	5%
draft written report	Friday, March 13 (noon)	5%
final presentation (slides)	Friday, March 27 (noon)	15%
final written report	Wednesday, April 8 (noon)	20%

### Course Outline

Date	In Class	Deliverable Working On
Jan 7	Introductory lecture; form teams; assign target study for replication; register on OSF and Qualtrics.	read target study thoroughly, and consider obstacles; complete TCPS2 tutorial
Jan 9 & 14	Begin preparation of written proposal; target study effect size statistics; familiarize with G*Power.	submit draft of written proposal to instructor
Jan 16, 21, 23	Ethics Application; prepare for proposal presentations	submit ethics application; provide copy to instructor
Jan 28, 30 & Feb 4	Present proposal to class; feedback from classmates and instructor	finalize written proposal and all materials; upload to OSF
Feb 6 & 11	Qualtrics programming	complete programming and run-through of data
Feb 13	In-class testing of program by other teams; verification of datafile	--
Feb 25	Study launch and monitoring	data collection completed and initial data analysis started
Feb 27 & Mar 3	Data analysis incl. effect size of replication in * PAS 1237 *	upload final datafile to OSF
Mar 5 & 10	Work on first draft of final report	submit draft of written report to instructor
Mar 12 & 17	Work on final project presentations	final presentation slides
Mar 19, 24, 26	Final project presentations	--
Mar 31 & Apr 2	Final report writing; end-of-course wrap-up	submit final written report

### Late Work

Because completion of various project components must proceed on schedule for the team to successfully complete the project by the end of the term, penalties for late work may be

substantial and cumulative. Unexpected obstacles to progress on the project should be brought to the attention of team members and the instructor as soon as they are encountered, so they can be dealt with promptly.

### **Electronic Device Policy**

Please bring your laptop to class if you own one. Each team will need at least one laptop in class each meeting as much of the work we will be doing in class will require a computer (e.g., materials development, report writing, computer programming, data analysis). Recommended statistical software for the class is SPSS, but you don't need to have this installed on your computer as we will have access during the relevant class meetings to a university computer cluster on which SPSS is installed.

### **Attendance Policy**

Attendance at every class meeting is mandatory. Teams will be actively working on their projects in class each meeting; if you are not there, therefore, you are failing to contribute to your team's progress on the project. Absences due to medical or family emergencies will be dealt with on a case-by-case basis; valid documentation in such cases must be provided to the instructor. In the case of illness, in particular, an official UW verification of illness form will be required.

### **Academic Integrity**

**Academic Integrity:** In order to maintain a culture of academic integrity, members of the University of Waterloo are expected to promote honesty, trust, fairness, respect and responsibility. See the [UWaterloo Academic Integrity webpage](#) and the [Arts Academic Integrity webpage](#) for more information.

**Discipline:** A student is expected to know what constitutes academic integrity, to avoid committing academic offences, and to take responsibility for his/her actions. A student who is unsure whether an action constitutes an offence, or who needs help in learning how to avoid offences (e.g., plagiarism, cheating) or about "rules" for group work/collaboration should seek guidance from the course professor, academic advisor, or the Undergraduate Associate Dean. When misconduct has been found to have occurred, disciplinary penalties will be imposed under Policy 71 – Student Discipline. For information on categories of offenses and types of penalties, students should refer to [Policy 71 - Student Discipline](#). For typical penalties check [Guidelines for the Assessment of Penalties](#).

### **Concerns About a Course Policy or Decision**

**Informal Stage.** We in the Psychology Department take great pride in the high quality of our program and our instructors. Though infrequent, we know that students occasionally find themselves in situations of conflict with their instructors over course policies or grade

assessments. If such a conflict arises, the Associate Chair for Undergraduate Affairs (Richard Eibach) is available for consultation and to mediate a resolution between the student and instructor: Email: reibach@uwaterloo.ca; Ph 519-888-4567 ext. 38790

**Grievance:** A student who believes that a decision affecting some aspect of his/her university life has been unfair or unreasonable may have grounds for initiating a grievance. Read [Policy 70 - Student Petitions and Grievances](#), Section 4. When in doubt, please be certain to contact Richard Eibach, who will provide further assistance; reibach@uwaterloo.ca.

**Appeals:** A decision made or penalty imposed under Policy 70 - Student Petitions and Grievances (other than a petition) or Policy 71 - Student Discipline may be appealed if there is a ground. A student who believes he/she has a ground for an appeal should refer to [Policy 72 - Student Appeals](#).

### **Note for Students with Disabilities**

The [AccessAbility Services](#) office, located on the first floor of the Needles Hall extension (1401), collaborates with all academic departments to arrange appropriate accommodations for students with disabilities without compromising the academic integrity of the curriculum. If you require academic accommodations to lessen the impact of your disability, please register with the AS office at the beginning of each academic term.

### **Accommodation for course requirements for Psychology courses.**

Policies of the Psychology department pertaining to course requirements are available on the [department website](#).

### **Official version of the course outline**

If there is a discrepancy between the hard copy outline (i.e., if students were provided with a hard copy at the first class) and the outline posted on LEARN, the outline on LEARN will be deemed the official version. Outlines on LEARN may change as instructors develop a course, but they become final as of the first class meeting for the term.

### **Cross-listen course**

Please note that a cross-listed course will count in all respective averages no matter under which rubric it has been taken. For example, a PHIL/PSYCH cross-list will count in the Philosophy major average, even if the course was taken under the Psychology rubric.

### **Mental Health Services**

[Mental Health Services](#) aim is to provide holistic programming and services to help you lead a healthy and balanced life. We strive to provide a secure, supportive environment for students of all orientations and backgrounds.

Students suffering from problems with anxiety, depression, problems with sleep, attention, obsessions or compulsions, relationship difficulties, severe winter blues, etc., may make an appointment by phone or in person. Appointments are usually available within two days of initial contact with one of our medical doctors. All contacts are completely confidential.

**Contact Health Services**

[Health Services Building](#)

Call 519-888-4096 to schedule an appointment

Call 1-866-797-0000 for free 24/7 advice from a health professional

**Contact Counselling Services**

[Needles Hall Addition, NH 2401](#)

Call 519-888-4567 x 32655 to schedule an appointment

[counserv@uwaterloo.ca](mailto:counserv@uwaterloo.ca)