

# PSY270H1F Introduction to Cognitive Psychology

Mondays and Wednesdays 10 am – 1pm in SS2118

## Course Delivery

This is an in-person course. Students are expected to attend lectures in-person whenever possible. Lectures will be recorded for later viewing, but you must attend in person to get the participation credits (see course schedule on the last page for participation dates).

If external circumstances change (e.g. public health guidelines, instructor illness/quarantine, etc.), the course may need to move online for one or more lectures.

## Contact Information

### Course Instructor:

**Dr. Christine Burton**

email: [christine.burton@utoronto.ca](mailto:christine.burton@utoronto.ca)

### Teaching Assistants:

**Lydia Jiang:** [Lydia.jiang@mail.utoronto.ca](mailto:Lydia.jiang@mail.utoronto.ca)

**Natalia Ladyka-Wojcik:** [natalia.ladyka.wojcik@mail.utoronto.ca](mailto:natalia.ladyka.wojcik@mail.utoronto.ca)

**Office hours:** : Sign-up for office hours required at <https://calendly.com/christine-burton/office-hour-1>

The TAs will hold office hours after the distribution of graded tests and papers. Dates and times will be posted on Quercus.

All office hours will be individual 15-minute appointments during the following times :

The TAs will also hold some dedicated office hours to answer questions you have about the written assignments before they are due.

Tuesdays 2:30 – 3:30 pm online only

Wednesdays 1:30 – 2:30 pm in-person or online

## Course Description

Cognitive psychology is the study of the building blocks of how we think and reason. We need to be able to pay attention, create mental representations, remember information, manipulate knowledge and express thoughts. Thus, in this course we will discuss the fundamentals of attention, memory, problem solving, decision making and language.

## Course Objective

My goal for this course is to familiarize you with the leading theories in cognitive psychology so that you are able to discuss the fundamental topics in the field, create hypotheses using this knowledge and apply this to everyday situations. Assigned textbook readings explain important concepts and will help lay a foundation on which you can build your knowledge. In lectures we will elaborate on the material in the text and highlight connections between the various topics, experiments that have been conducted in the area, and real-life situations.

Experimentation is an important part of cognitive psychology so I have included assignments specifically designed to let you participate in cognitive psychology research and use your new knowledge.

By the end of this course, you should be able to:

- Describe the major terms, concepts and theories in cognitive psychology
- Understand how unconscious cognitive processes influence our everyday behaviour

- Understand how the historical development of cognitive psychology has shaped the questions researchers in cognitive psychology ask today
- Explain how empirical findings can support or refute psychological theories
- Identify key variables in empirical research and infer evidence-based conclusions
- Analyse and critique published research in cognitive psychology
- Communicate scientific data in the form of written reports

## Reading Material

**Barenholtz, et al. (2022). Cognitive Psychology, 2<sup>nd</sup> ed. Tophatmonocle Corp.** This textbook is only available through the Top Hat platform. This allows significant savings for students compared to some of the other frequently used Cognition textbooks, and integration of all course materials into one platform.

In addition to the Top Hat textbook, we will be using Top Hat Classroom for participation this term and to facilitate in-class lab activities.

The materials can be purchased as a bundle either through the U of T online bookstore or directly from Top Hat using the instructions in the email you will receive to your mail.utoronto.ca account. You will need our course **Join Code (096759)** to purchase the materials from Top Hat and to join the course.

## Course Evaluation

<b>Midterm test</b>	May 29  120 minutes	28%	<b>Top Hat homework</b>	May 29 and June 19	3%
<b>Final Exam</b>	TBD: June 21- 26  120 minutes	36%	<b>Top Hat lab participation</b>	Ongoing	3%
<b>Lab reports</b>	11:59 pm EST June 5 and June 19	2 @ 15% each = 30%	<b>Bonus experiment participation</b>	Ongoing	1%

## Tests

There will be a midterm test and a final exam in this course. Both the test and the final exam will be held in-person. If public health and/or university guidelines change, the test and/or exam may need to shift online. The test and exam will consist of multiple choice and short answer questions. The final exam will be cumulative and will cover all material from the course.

## Bonus Experiment Participation

You have the opportunity to receive 1% bonus credit by participating in a psychology experiment in the Cognitive Neuroscience Lab. Participating in an experiment is an excellent way to experience how research is conducted in psychology and it is vital to the ongoing research in the field. To sign up for an experiment go to <https://utsg-ferberlab.sona-systems.com/> and register as a new user with your UTOR email. Detailed instructions are available on Quercus. If you do not want to participate in an experiment there is still an opportunity for you to receive a bonus point. Please email your instructor for instructions about an alternate assignment.

## Top Hat Participation

There are 2 types of Top Hat participation in this course.

The first is related to the experiment participation described below that will contribute to the lab report assignments.

There are 6 experiments to participate in throughout the term with each experiment participation worth 0.5%. In order to receive the full 3% participation, you will need to participate in at 5 of 6 experiments (2.5% rounded up).

The second Top Hat component requires you to answer “homework” questions posted on Top Hat after each lecture. Research has demonstrated that a good way to learn material is to be tested on it. With that goal in mind, these homework questions are based on lecture and textbook material and will help as practice questions for the test and exam. Your score will be calculated as the total number of correct answers out of all questions multiplied by 3% (for example, if you get 80 questions correct out of 100 questions asked throughout the term, your score will be 2.4 points added to your final grade). The homework questions are due before the midterm test and the final exam.

## Assignments

I intend the assignments to give you an opportunity to participate in both classic and recent cognitive psychology experiments and encourage you to use the information in the course to think beyond the course material. During class you will participate in replications of classic cognitive psychology experiments using Top Hat. The point of the assignments is to give you hands on experience both participating in experiments and acting as an experimenter. Top Hat allows you to participate in psychology replications in class and send real-time data to me using your laptop or cell phone. I will perform simple statistical analyses based on the class data and present it the following class. You will then be expected to write lab reports based on the class data from 2 of the experiments we will complete throughout the term. Detailed instructions about the lab reports are available on Quercus.

All written assignments will be submitted via Quercus. **It is your responsibility to ensure that you have submitted the correct file and that it can be opened.** After submitting your paper, please double check that it has not been corrupted, that it is written in English characters, and that you didn't submit a paper from a different course. You will be responsible for any late penalties that accrue if you need to submit the correct paper after the due date.

## Plagiarism Detection Tool

Normally, students will be required to submit their course essays to the University's plagiarism detection tool for a review of textual similarity and detection of possible plagiarism. In doing so, students will allow their essays to be included as source documents in the tool's reference database, where they will be used solely for the purpose of detecting plagiarism. The terms that apply to the University's use of this tool are described on the Centre for Teaching Support & Innovation web site (<https://uoft.me/pdt-faq>).

Students who wish to opt-out of using the University's plagiarism detection tool for the case study assignment must notify the instructor (via Quercus inbox message/email) no later than 5PM on May 15. Upon receipt of notification, the instructor will request that the student provide all rough work (including, but not limited to, call numbers and/or URLs for all cited sources) when submitting their case study assignment.

## Course Webpage

**The website associated with this course is accessible via <http://q.utoronto.ca>**

**Note:** You don't need to create a new login for Canvas; it already knows who you are. You just need your UTORid and password. This is the same login that gets you onto the wireless network with your laptop, and the same one that you use to check your email. If you're confused about your UTORid or don't remember your password, go to: <https://www.utorid.utoronto.ca/>

## IMPORTANT COURSE POLICIES **\*\*PLEASE READ\*\***

### Email

The main source of communication in the course will be email. **Please include the course number (PSY270) in the subject line in all your emails about the course. Avoid sending me messages directly from Quercus/Canvas.** These messages always end up in my “other” folder so I may not get to them quickly.

For all issues that apply to course material/other students in the class, please refer to the FAQ on Quercus. If you don't see it on the FAQ, please email me and I will add it!

## Requests for Re-grading

Any requests to re-grade tests or experiment reports should be made in a timely fashion. Requests to re-grade term tests must be made before the next scheduled test or exam. Requests to re-grade experiment reports must be made within 2 weeks of the return of the graded report. **Please direct all requests for re-grading directly to the TA who marked your work.** If you are dissatisfied after meeting with the TA you may submit your work to the instructor. Keep in mind that if you submit your work to be re-graded, your grade could go up or down. This policy applies to work submitted to the instructor or the TAs.

## Missed Test Special Consideration Request Process

Students who are absent from academic participation for any reason (e.g., COVID, cold, flu and other illness or injury, family situation) and who require consideration for missed academic work should report their absence through the online absence declaration. The declaration is available on ACORN under the Profile and Settings menu. Students should also advise their instructor of their absence as soon as possible, and within 1 week of a missed test.

If an absence extends beyond 7 consecutive days, or if you have a non-medical personal situation preventing you from completing your academic work, you should connect with your College Registrar. They can provide advice and assistance reaching out to instructors on your behalf. If you get a concussion, break your hand, or suffer some other acute injury, you should register with Accessibility Services as soon as possible.

If you missed your test/assignment deadline for a reason connected to your registered disability, please be advised that the department will accept documentation supplied by Accessibility Services.

**If your request is approved, you will have the opportunity to write a make-up test. There will be one make-up test scheduled for the course. If you miss the make-up test, you should report your absence through ACORN and the weight of the missed test will be redistributed to the final exam.**

Students who miss final examinations should file a petition for a deferred exam with their College Registrar's Office.

There may be times when you are unable to complete course work on time due to non-medical reasons. If you have concerns, speak to me. It is also a very good idea to speak with an advisor in your College Registrar's office; they can support you in requesting extensions or accommodations, and importantly, connect you with other resources on campus for help with your situation.

## Supporting Documentation

The University is temporarily suspending the need for a doctor's note or medical certificate for any absence from academic participation. However, you are required to use the Absence Declaration tool on ACORN found in the Profile and Settings menu to formally declare an absence from academic participation. The tool is to be used if you require consideration for missed academic work based on the procedures specific to our campus/department.

For extensions of time beyond the examination period you must submit a petition through your College Registrar's office

## Penalties for Lateness

The penalty for lateness is 5% per calendar day.

Students who seek to be granted more time to complete their term work beyond the due date without penalty, owing to circumstances beyond their control (e.g., illness, or an accident), must do so by submitting a request directly to the instructor for the period up to and including the last day of the exam period.

*Any term work that will be handed in **after** the final exam period is subject to a petition for extension of term work. This petition should be filed with the student's College Registrar's Office.*

### Accessibility Needs

Students with diverse learning styles and needs are welcome in this course. If you have an ongoing disability issue or accommodation need, you should register with Accessibility Services (AS) ([accessibility.utoronto.ca](http://accessibility.utoronto.ca)) at the beginning of the academic year. Without registration, you will not be able to verify your situation with your instructors, and instructors will not be advised about your accommodation needs. AS will then assess your medical situation, develop an accommodation plan with you, and support you in requesting accommodation for your course work. Remember that the process of accommodation is private: AS will not share details of your condition with any instructor, and your instructors will not reveal that you are registered with AS.

### Writing

As a student here at the University of Toronto, you are expected to write well. The university provides its students with a number of resources to help them achieve this. For more information on campus writing centres and writing courses, please visit <http://www.writing.utoronto.ca/>.

### Privacy and Copyright Disclaimer

#### ***Notice of video recording and sharing (Download permissible; re-use prohibited)***

Course videos and materials belong to your instructor, the University, and/or other source depending on the specific facts of each situation, and are protected by copyright. In this course, you are permitted to download session videos and materials for your own academic use, but you should not copy, share, or use them for any other purpose without the explicit permission of the instructor.

Lectures and course materials prepared by the instructor are considered by the University to be an instructor's intellectual property covered by the Copyright Act, RSC 1985, c C-42. Course materials such as PowerPoint slides and lecture recordings are made available to you for your own study purposes. These materials cannot be shared outside of the class or "published" in any way. Posting recordings or slides to other websites without the express permission of the instructor will constitute copyright infringement.

### Academic Integrity and Plagiarism

All students, faculty and staff are expected to follow the University's guidelines and policies on academic integrity. For students, this means following the standards of academic honesty when writing assignments, collaborating with fellow students, and writing tests and exams. Ensure that the work you submit for grading represents your own honest efforts. Plagiarism—representing someone else's work as your own or submitting work that you have previously submitted for marks in another class or program—is a serious offence that can result in sanctions. Speak to me or your TA for advice on anything that you find unclear. To learn more about how to cite and use source material appropriately and for other writing support, see the U of T writing support website at <http://www.writing.utoronto.ca>. Consult the Code of Behaviour on Academic Matters for a complete outline of the University's policy and expectations. For more information, please see <https://www.artsci.utoronto.ca/current/academicadvising-and-support/student-academicintegrity> and <http://academicintegrity.utoronto.ca>

...course outline continued on next page...

## Course Outline

Date	Topic	Reading
May 8	Introduction, themes and research methods	Chapters 1 and 2 (skim chapter 3 and answer Top Hat homework)
May 10	Perception	Chapter 4
May 15	Attention <a href="#">In class experiment using Top Hat</a>	Chapter 5
May 17	Short-term storage <a href="#">In class experiment using Top Hat</a>	Chapter 6
May 22	Victoria Day – No class	
May 24	Long-term memory: Systems and processes <a href="#">In class experiment using Top Hat</a>	Chapter 7
May 29	<b>Midterm Test</b>	
May 31	Long-term memory in practice	Chapter 8
June 5	Knowledge <a href="#">In class experiment using Top Hat</a>	Chapter 9
June 7	Imagery <a href="#">In class experiment using Top Hat</a>	Chapter 10
June 12	Decision making <a href="#">In class experiment using Top Hat</a>	Chapter 13
June 14	Language	Chapter 11
June 19	Problem solving	Chapter 12

\*Please note that the content of chapter 3 (The Brain) will not explicitly be covered or tested, however, we will refer to some brain areas and functions throughout the course so it is your responsibility to ensure you are familiar with the basic ideas covered in the chapter.