

# PSY393H5S - Human Neuropsychology

## IN-PERSON

Friday 12:00 pm – 3:00 pm **ROOM: KN 137**

### Course Delivery

**Winter 2022 Return to Campus Update:** In order to curb the spread of COVID-19 amid the emergence of the Omicron variant, most in-person learning has been **delayed until Jan 31, 2022**. Keep in mind this date is subject to change as per the Universities need to monitor any new developments and will be keeping with the latest evidence and public health guidelines.

#### Delivery Method until January 31, 2022

Until January 31, this course will be delivered as a combination of asynchronous and synchronous online activities. Lectures will be given as a series of short videos totaling 2-3 hours/ week posted on Quercus before the designated class meeting time. Students are expected to attend live sessions during the scheduled class time to participate in class activities and discussions. Students will have the opportunity for a synchronous online office hours and tutorials to ask questions and clarifications about lecture content.

- **Learn Anywhere Guide for Students**  
<https://library.utm.utoronto.ca/students/quercus/learn-anywhere>
- **University of Toronto tech requirements for online learning**

#### Delivery Method after January 31, 2022

If we return to in-person classes after January 31, the course will be held on Fridays from 12-3pm in KN137. Lectures will not be live-streamed, however, all lectures will be recorded. There will be an asynchronous option for all in-class activities. All tests and assignments will be conducted online using Quercus.

### Contact Information

**Course Instructor: Dr. Christine Burton**

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

#### **Office hours via Zoom**

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

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

Monday 1-2pm

Tuesday, Thursday 3-4pm

Wednesdays, Fridays 9 am

#### **Teaching Assistants:**

The TAs will be available to meet virtually with students after the distribution of graded tests and assignments.

#### **Amira Abozaid**

[amira.abozaid@mail.utoronto.ca](mailto:amira.abozaid@mail.utoronto.ca)

#### **Amanda Leonetti**

[amanda.leonetti@mail.utoronto.ca](mailto:amanda.leonetti@mail.utoronto.ca)

## Course Description

This course is intended to provide a general introduction to the field of human neuropsychology. Specifically, we will explore how complex higher-order cognitive functions are mediated through cortical and subcortical neural networks. We will discuss *how* we function the way we do, covering topics such as perception, memory, language, executive function and social cognition.

**Prerequisites:** PSY201H5/equivalent, 290H5, 270H5

*If you have questions about missing prerequisites, the waiting list or other enrollment issues, please contact the Academic Counsellor for further information at [jodie.stewart@utoronto.ca](mailto:jodie.stewart@utoronto.ca)*

## Reading Material

Recommended: Gazzaniga, M., Ivry, R. & Mangun, G. (2018). Cognitive Neuroscience: The Biology of the Mind (5<sup>th</sup>ed). Norton Publishers.

## Learning Outcomes

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

- Describe the major anatomical divisions of the central nervous system and the connectivity between them
- Identify the brain regions that produce complex human behaviour and describe the role those regions play
- Explain how multiple cortical and subcortical structures interact to control complex behavior
- Describe the behavioural deficits that result from brain damage
- Explain what researchers have learned about brain function by studying patients with brain damage
- Interpret primary research and effectively synthesize information in a growing field of knowledge
- Produce clear and succinct summaries of published research

## Course Evaluation

Unit 1 test Online via Quercus	February 11 120 minutes	22%	Anatomy and methods Quercus quiz	Due January 28	5%
Unit 2 test Online via Quercus	March 18 120 minutes	23%	Literature search tasks	See course outline for due dates	4 @ 5% each = 20%
Final exam Delivery TBA	TBA 120 minutes	25%	Kahoot participation	Ongoing	5%

## Assignments

The goal of the assignments is to give you practice using online databases to search for, and interpret, primary research. Research in the area of human neuropsychology is growing exponentially as new brain imaging technology emerges. The results of this research are often conflicting and can sometimes seem confusing so it is important that you know what you are looking for. The goal of the literature search tasks is to help you see the forest for the trees! That is, the assignment is intended to direct you to find a common theme among details. You will be given 5 literature search tasks, each with a specific goal. The primary focus of these assignments will be the information gathering and synthesis, but you will be expected to submit a short written summary of your search. Only your best 4 will be included in your final grade. Detailed instructions about the assignments are posted on the course webpage.

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>)

You may opt out of using Turnitin.com to submit your course work, in which case alternative arrangements can be made to support your written work (e.g. providing research notes, etc.). If you intend to opt out of Turnitin.com, please **inform your instructor by Friday, January 21** so alternate arrangements can be made.

## Tests and quiz

It is essential that you have a basic understanding of brain anatomy as you progress through the material in this course. In order to encourage you to learn this anatomy, there will be a take-home quiz testing this material early in the course. **The quiz will be available to complete on Quercus between January 21 and January 28.** You will have 1 hour to complete the quiz once you have started it and 1 opportunity to submit your answers.

The unit tests will be administered as Quercus quizzes during the scheduled class time. If you have a conflict with the Unit test times (e.g. different time zone), please contact the instructor to set up an alternate test time. The exam will held during the exam period, as set by the registrar. The delivery method of the exam will be determined by the university. Each test and exam will cover material only from that unit (e.g. they are not cumulative).

## Participation

Research has demonstrated that a good way to learn material is to be tested on it. With that goal in mind, I will prepare practice test questions that you will participate in during each lecture using the free app "Kahoot" (kahoot.com). These questions will be scored based on participation only (10 weeks X 0.5% each = 5%). We will do the Kahoot questions live during class for the duration of the course but an asynchronous option will be available.

## 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/>

In order to access course material, monitor course information, and view your grades you must log into Canvas. If you have any general questions regarding Canvas, please visit the following help site: <https://library.utm.utoronto.ca/faculty/canvas>

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

### Email

The main source of communication in the course will be email. Due to incompatibility issues with the Blackboard portal and some email servers (e.g. hotmail, etc.) you must send all email from your utoronto.ca account. Please include the course number (PSY393) in the subject line in all your emails about the course.

**Make sure you check your notification settings in Quercus to ensure you will receive email and announcement notifications.**

### Requests for Re-grading

Any requests to re-grade tests or literature assignments 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 literature search tasks must be made

within 1 week 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 miss a test due to circumstances beyond their control (e.g. illness or an accident) can request that the Department grant them special consideration. Students must present their case to the Department (NOT the Instructor) by submitting a request via the online Special Consideration Request form at:

<https://utmapp.utm.utoronto.ca/SpecialRequest>.

**Important note:** Once the test/exam is available online or in-person and you're unable to write or have an approved request to miss, **DO NOT** at any point attempt to access/write the test/exam. If at any time you access the test/exam or sit down to write, you will **NOT** be able to submit a special consideration and/or your request will be refused.

If your request is approved by the department, a make-up test will be offered. You will receive an email when a make-up date has been arranged. The department will try to give 2-3 days notice of make-up date, however this is sometimes is not possible. **Be prepared for the make-up.**

### **Extension of Time Special Consideration Request Process**

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 term. The decision as to whether or not to apply a penalty for the specified period rests with the Instructor.

Students who seek to be granted more time to complete term work beyond the last day of the term must submit their request directly to the Department. This request covers the period following the last day of classes and ends the last day of the exam period. This is done by submitting a request via the online Special Consideration Request form at <https://utmapp.utm.utoronto.ca/SpecialRequest>. You are advised to seek advising by the departmental Undergraduate Counsellor prior to the deadline.

### **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.

### **Missed Final Exam or Extension of Time beyond exam period**

Missed final exams or for extensions of time beyond the examination period you must submit a petition through the Office of the Registrar. <http://www.utm.utoronto.ca/registrar/current-students/petitions> and follow their procedures.

### **Penalties for Lateness**

A penalty of 5% per calendar day (i.e., including week-ends and holidays, during which students are not able to submit term work) up to and including the last day of classes, will be applied by the Instructor. After the last day of classes, the penalty of 10% per calendar day will be applied by the Undergraduate Counsellor on behalf of the Department. No penalty will be assigned if request for special consideration, described above, was successful.

### **Academic Guidelines**

It is your responsibility to ensure that you have met all prerequisites listed in the UTM Calendar for this course. If you

lack any prerequisites you WILL BE REMOVED from the course up until the last day to add a course. Further information about academic regulations, course withdrawal dates and credits can be found in the University of Toronto Mississauga Calendar at: <http://www.erin.utoronto.ca/regcal/>.

You are encouraged to read this material. If you run into trouble and need advice about studying, preparing for exams, note taking or time management, free workshops and advice are available from the Robert Gillespie Academic Skills Centre at 905-828-5406.

## **AccessAbility Services**

The University provides academic accommodations for students with disabilities in accordance with the terms of the Ontario Human Rights Code. This occurs through a collaborative process that acknowledges a collective obligation to develop an accessible learning environment that both meets the needs of students and preserves the essential academic requirements of the University's courses and programs. Students requiring academic accommodations for learning, physical, sensory, or mental health disabilities or medical conditions should contact the AccessAbility Office (2037B Davis Building), 905-828-3847. <http://www.utm.utoronto.ca/accessability/>

## **Privacy and Copyright Disclaimer**

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

This course, including your participation, will be recorded on video and will be available to students in the course for viewing remotely and after each session. 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. For questions about recording and use of videos in which you appear please contact your 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 Honesty and Plagiarism**

Academic integrity is essential to the pursuit of learning and scholarship in a university, and to ensuring that a degree from the University of Toronto Mississauga is a strong signal of each student's individual academic achievement. As a result, UTM treats cases of cheating and plagiarism very seriously.

The University of Toronto's Code of Behaviour on Academic Matters outlines behaviours that constitute academic dishonesty and the process for addressing academic offences. Potential offences include, but are not limited to:

### In papers and assignments:

1. Using someone else's ideas or words without appropriate acknowledgement.
2. Submitting your own work in more than one course without the permission of the instructor.
3. Making up sources or facts.
4. Obtaining or providing unauthorized assistance on any assignment.

### On tests and exams:

1. Using or possessing unauthorized aids.
2. Looking at someone else's answers during an exam or test.
3. Misrepresenting your identity.

### In academic work:

1. Falsifying institutional documents or grades.
2. Falsifying or altering any documentation required, including (but not limited to) doctor's notes.

With regard to remote learning and online courses, UTM wishes to remind students that they are expected to adhere to **the Code of Behaviour on Academic Matters** regardless of the course delivery method. By offering students the opportunity to learn remotely, UTM expects that students will maintain the same academic honesty and integrity that they would in a classroom setting. Potential academic offences in a digital context include, but are not limited to:

Remote assessments:

1. Accessing unauthorized resources (search engines, chat rooms, Reddit, etc.) for assessments.
2. Using technological aids (e.g. software) beyond what is listed as permitted in an assessment.
3. Posting test, essay, or exam questions to message boards or social media.
4. Creating, accessing, and sharing assessment questions and answers in virtual “course groups.”
5. Working collaboratively, in-person or online, with others on assessments that are expected to be completed individually.

All suspected cases of academic dishonesty will be investigated following procedures outlined in the Code of Behaviour on Academic Matters. If you have questions or concerns about what constitutes appropriate academic behaviour or appropriate research and citation methods, you are expected to seek out additional information on academic integrity from your instructor or from other institutional resources.

## Academic Rights

You, as a student at UTM, have the right to:

- Receive a syllabus by the first day of class.
- Rely upon a syllabus once a course is started. An instructor may only change marks' assignments by following the University Assessment and Grading Practices Policy provision 1.3.
- Refuse to use the University of Toronto's Detection Tool (you must be offered an alternative form of submission).
- Have access to your instructor for consultation during a course or follow up with the department chair if the instructor is unavailable.
- Ask the person who marked your term work for a re-evaluation if you feel it was not fairly graded. You have up to one month from the date of return of the item to inquire about the mark. If you are not satisfied with a re-evaluation, you may appeal to the instructor in charge of the course if the instructor did not mark the work. If your work is remarked, you must accept the resulting mark. You may only appeal a mark beyond the instructor if the term work was worth at least 20% of the course mark.
- Receive at least one significant mark (15% for H courses, 25% for Y courses) before the last day you can drop a course for H courses, and the last day of classes in the first week of January for Y courses taught in the Fall/Winter terms.
- Submit handwritten essays so long as they are neatly written.
- Have no assignment worth 100% of your final grade.
- Not have a term test worth more than 25% in the last two weeks of class.
- Retain intellectual property rights to your research.
- Receive all your assignments once graded.
- View your final exams. To see a final exam, you must submit an online Exam Reproduction Request within 6 months of the exam. There is a small non-refundable fee.
- Privacy of your final grades.
- Arrange for representation from Downtown Legal Services (DLS), a representative from the UTM Students' Union (UTMSU), and/or other forms of support if you are charged with an academic offence.

## Equity Statement

The University of Toronto is committed to equity and respect for diversity. All members of the learning environment in this course should strive to create an atmosphere of mutual respect. As a course instructor, I will neither condone nor tolerate behaviour that undermines the dignity or self-esteem of any individual in this course and wish to be alerted to any attempt to create an intimidating or hostile environment. It is our collective responsibility to create a space that is inclusive and welcomes discussion. Discrimination, harassment and hate speech will not be tolerated. If you have any questions, comments, or concerns you may contact the UTM Equity and Diversity officer at [edo.utm@utoronto.ca](mailto:edo.utm@utoronto.ca) or the University of Toronto Mississauga Students' Union Vice President Equity at [vpequity@utmsu.ca](mailto:vpequity@utmsu.ca).

## Course Outline

	Date	Topic	Readings
Unit 1: Brain organization and theories of function	January 14	Introduction, history, and methods	Chapters 1 & 3
	January 21	Brain structure	Chapter 2
	January 28	Perception <b>Anatomy and methods asynchronous quiz due</b>	Chapters 5 & 6
	February 4	Action <b>Literature search task 1 due by 11:59 pm EST via Quercus</b>	Chapter 8
	February 11	<b>Unit 1 test 12 pm – 2 pm EST via Quercus</b>	
Unit 2: Primary cognitive functions	February 18	Attention <b>Literature search task 2 due by 11:59 pm EST via Quercus</b>	Chapters 7
	February 25	<b>Reading Week</b>	
	March 4	Memory	Chapter 9
	March 11	Language <b>Literature search task 3 due by 11:59 pm EST via Quercus</b>	Chapter 11
	March 18	<b>Unit 2 test 12 pm – 2 pm EST via Quercus</b>	
Unit 3: Higher order and socio-emotional functions	March 25	Cerebral Asymmetry <b>Literature search task 4 due by 11:59 pm EST via Quercus</b>	Chapter 4
	April 1	Cognitive control	Chapter 12
	April 8	Emotion <b>Literature search task 5 due by 11:59 pm EST via Quercus</b>	Chapter 10