

PSY393H5S - Human Neuropsychology

Tuesday 3:00pm – 6:00pm

Room Location: DV 2080 (Davis Building)

Contact Information

Instructor: Christine Burton

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Teaching Assistant:

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Office Hours:

Tuesdays 1-3pm, or by appointment, DH4025

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.

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

- Describe the major anatomical divisions of the central nervous system and the connectivity between them
- Understand how multiple cortical and subcortical structures interact to control complex behaviour
- Interpret primary research and effectively synthesize information in a growing field of knowledge

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

Reading Material

Recommended: Gazzaniga, M., Ivry, R. & Mangun, G. (2018). Cognitive Neuroscience: The Biology of the Mind (5thed). Norton Publishers.

Students may use either the hard copy or ebook versions of this text.

Course Evaluation

Unit 1 test	February 4 120 minutes	22%	Anatomy and methods take-home quiz	Due January 21	5%
Unit 2 test	March 10 120 minutes	23%	Literature search tasks	See course outline for due dates	4 @ 5% each = 20%
Final exam	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 Turnitin.com 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 Turnitin.com reference database, where they will be used solely for the purpose of detecting plagiarism. The terms that apply to the University's use of the Turnitin.com service are described on the Turnitin.com web site.

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 Tuesday, January 14** 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 for 1 week between January 14 and January 21.** 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 held during class time and will cover material only from that unit (e.g. they are not cumulative). The tests and exam will consist of 3 sections: MC, fill-in-the-blank, and short answers.

Course Webpage

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 during each lecture that you can answer using the free app "Kahoot" (kahoot.com). These questions will be scored based on participation only (10 weeks X 0.5% each = 5%). You don't need to set up an account with Kahoot, you only need to bring a device that can connect to the internet. If you don't have access to a wifi-enabled device, please speak to me before January 14.

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**

Green Policy

This is a paperless course! All documents and assignments will be in electronic format only. This includes the written assignments you are to complete for class. All grading will be done electronically. Please avoid printing excessively when you can and try to print double-sided whenever possible!

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.

Please avoid sending messages using Quercus inbox. These messages are difficult to respond to and often get misplaced.

I will do my best to answer your emails, but if I think your questions can be better answered in person, I will suggest that we set up an appointment. The same policy applies to emails sent to the TA.

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 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>.

Students are to submit original supporting documentation (e.g., medical certificates, accident reports, etc.) to the Psychology Academic Counselor or drop it in the drop box located outside the Psychology office, Deerfield Hall, 4th Floor. Students have up-to one week from the date of the missed test to submit request. Late submissions will NOT be considered without a letter of explanation specifying and documenting the reasons for the lateness.

Medical certificates or physician's notes must be completed by the Physician and MUST include the statement "This Student [name] was unable to write the test on [date(s)] for medical reasons". This documentation must show that the physician was consulted within one the day of the missed term test. A statement merely acknowledging a report of illness made by the student to the physician is NOT acceptable. For further information on this procedure please see: <http://www.utm.utoronto.ca/psychology/undergraduate-studies/missed-testslate-submissions>

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 the UTM AccessAbility Resource Centre.

IMPORTANT: The Department of Psychology verifies the authenticity of medical certificates by contacting medical offices. Students are NOT to make any changes or alteration to completed medical certificates. Students who submit forged or altered documentation are subject to severe academic penalties.

If your request is approved by the department, the value of the test will be redistributed to the final examination.

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.

Original supporting documentation (e.g., medical certificates, accident reports, etc.) must be submitted to the Psychology Academic Counselor or dropped off in the drop box located outside the Psychology office Deerfield Hall, 4th Floor. Students are expected to submit requests to the Department before the last day of the term, unless demonstrably serious reasons prevent them from doing so. In the event of an illness, medical certificates or doctor's notes must confirm that student was ill on the due date of the assignment (for a one-day extension). For a longer extension, documentation must specify the full duration during which academic work could not be carried out.

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>

Penalties for Lateness

A penalty of 10% 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

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/>

Academic Honesty and Plagiarism

Honesty and fairness are considered fundamental to the university's mission, and, as a result, all those who violate those principles are dealt with as if they were damaging the integrity of the university itself. When students are suspected of cheating or a similar academic offence, they are typically surprised at how formally and seriously the matter is dealt with -- and how severe the consequences can be if it is determined that cheating did occur. The University of Toronto treats cases of cheating and plagiarism very seriously. Please take the time to review the Academic Integrity website: <http://www.utm.utoronto.ca/academic-integrity/students>.

- Common trends in academic offences:
- Plagiarizing/concocted references
- Collaboration/unauthorized assistance
- Purchasing work
- Recycling work - "double-dipping"

- Resubmitting of altered work for re-grading
- Electronic devices (cell phones) or any unauthorized aids
- Altering medical certificates and UofT documents

From the Code of Behaviour on Academic Matters: "It shall be an offence for a student to knowingly: represent as one's own any idea or expression of an idea or work of another in any academic examination or term test or in connection with any other form of academic work, i.e. to commit plagiarism. Wherever in the Code an offence is described as depending on "knowing", the offence shall likewise be deemed to have been committed if the person ought reasonably to have known." All students must refer to this website to obtain information on what constitutes plagiarism.

<http://www.writing.utoronto.ca/advice/using-sources/how-not-to-plagiarize>.

If questions arise after reading the material on the website, consult your instructor.

Plagiarism will not be tolerated.

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 or the University of Toronto Mississauga Students' Union Vice President Equity at vpequity@utmsu.ca.

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 turnitin.com (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 25% or more 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.

Course Outline

	Date	Topic	Readings
Unit 1: Brain organization and theories of function	January 7	Introduction, history, and methods	Chapters 1-4 and 8
	January 14	Brain structure	
	January 21	Cerebral asymmetry Anatomy and methods quiz due	
	January 28	Action Lit search task 1 due	
	February 4	Unit 1 test	
Unit 2: Primary cognitive functions	February 11	Attention Lit search task 2 due	Chapters 7, 9, and 11
	February 18	Reading Week	
	February 25	Memory	
	March 3	Language Lit search task 3 due	
	March 10	Unit 2 test	
Unit 3: Higher order and socio-emotional functions	March 17	Cognitive control: Cool control Lit search task 4 due	Chapters 10, 12, and 13
	March 24	Cognitive control: Hot control	
	March 31	Emotion Lit search task 5 due	

Please note this schedule is tentative. We will cover these topics in the order listed but may spend more time on some topics and less on others.

Final exam: During exam period, it is the student's responsibility to be available for the entire exam period.