

PSY493H1 S

Cognitive Neuroscience

Winter 2024 Syllabus

Course Meetings

PSY493H1 S

Section	Day & Time	Delivery Mode & Location
LEC0101	Thursday, 10:00 AM - 1:00 PM	In Person: SS 1074

Refer to ACORN for the most up-to-date information about the location of the course meetings.

Course Contacts

Course Website: <https://q.utoronto.ca/courses/339366>

Instructor: Dr. Paul Whissell

Email: paul.whissell@utoronto.ca

Office Hours and Location: Wednesdays and Thursdays, 1 - 3 pm, Room 4042

Teaching Assistant: Delaram Farzanfar

Course Overview

This is a capstone lecture course surveying research on how the mind arises from the brain. The first objective of the course is to understand how processes in human brains (ranging from the firing of a single neuron to the dynamics of billions) support cognitive abilities (such as recognizing a face, remembering a birthday from childhood, understanding the words in a spoken lecture, or planning a route home from class). The second objective of the course is to understand the methods of contemporary cognitive neuroscience research, to enable students to read primary literature and to understand ongoing debates.

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Course Learning Outcomes

Prerequisites: PSY201H1/ ECO220Y1/ EEB225H1/ GGR270H1/ IRW220H1/ POL222H1/ SOC202H1/ STA220H1/ STA238H1/ STA248H1/ STA288H1/ PSY201H5/ STA215H5/ STA220H5/ PSYB07H3/ STAB22H3/ STAB23H3/ STAB57H3, (PSY260H1/ PSYB38H3)/ (PSY270H1/ PSY270H5/ PSYB57H3/ COG250Y1)/ (PSY290H1/ PSY290H5/ PSYB64H3/ HMB200H1/ PSL300H1)

Corequisites: None

Exclusions: PSYB55H3

Recommended Preparation: None

Credit Value: 0.5

Course Materials

Optional textbook (not required): *Cognitive Neuroscience: The Biology of the Mind*. 5th edition. 2018. Gazzaniga, M., Ivry, R. and Mangun, M. Published by W. W. Norton & Company. ISBN: 9780393667851.

Marking Scheme

Assessment	Percent	Details	Due Date
Term Test	30%	o 2 hours allotted o 30 fill in the blank questions (each worth 1 mark) o 5 short written answer questions (each worth 8 marks) o Total of 70 marks o Closed book	2024-02-08
Research Assignment	15%	o Online assignment, details will be given later in term	2024-03-21
Articles Quiz	10%	o Online quiz on assigned research articles, details will be given later in term	2024-04-04
In-Person Final Exam	45%		Final Exam Period

Late Assessment Submissions Policy

10% per day late

Course Schedule

Week	Description

Jan 11	Lecture 01: Introduction to Cognitive Neuroscience; Review of Neuroanatomy
Jan 18	Lecture 02: Methods in Cognitive Neuroscience
Jan 25	Lecture 03: Sensation/Perception; Object Recognition
Feb 1	Lecture 04: Attention
Feb 8	TERM TEST (LECTURES 1 – 4)
Feb 15	Lecture 05: Memory
Feb 22	Study Week, No planned activities
Feb 29	Test Review Session*, Lecture 06: Language, Assignment + Quiz Posted
Mar 7	Lecture 07: Emotion
Mar 14	Lecture 08: Cognitive Control
Mar 21	Lecture 09: Social Cognition, Assignment Due
Mar 28	Lecture 10: Consciousness
April 4	Exam Review + Quiz Help Session, Quiz Due @ 11:59 pm
April 10 - 30	FINAL EXAM (LECTURES 5 - 10), Date TBA

Policies & Statements

Course Materials, including lecture notes

Course materials are provided for the exclusive use of enrolled students. These materials should not be reposted, shared, put in the public domain, or otherwise distributed without the explicit permission of the instructor. These materials belong to your instructor, the University, and/or other sources depending on the specific facts of each situation and are protected by copyright. Students violating these policies will be subject to disciplinary actions under the Code of Student Conduct.

Video Recording and Sharing (Download and 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 sources depending on the specific facts of each situation and are protected by copyright. Do not

download, copy, or share any course or student materials or videos without the explicit permission of the instructor.

For questions about the recording and use of videos in which you appear, please contact your instructor.

Religious Accommodations

As a student at the University of Toronto, you are part of a diverse community that welcomes and includes students and faculty from a wide range of cultural and religious traditions. For my part, I will make every reasonable effort to avoid scheduling tests, examinations, or other compulsory activities on religious holy days not captured by statutory holidays. Further to University Policy, if you anticipate being absent from class or missing a major course activity (such as a test or in-class assignment) due to a religious observance, please let me know as early in the course as possible, and with sufficient notice (at least two to three weeks), so that we can work together to make alternate arrangements.

Students with Disabilities or Accommodation Requirements

Students with diverse learning styles and needs are welcome in this course. If you have an acute or ongoing disability issue or accommodation need, you should register with Accessibility Services (AS) at the beginning of the academic year by visiting <https://studentlife.utoronto.ca/department/accessibility-services/>. 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 assess your 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 needs or condition with any instructor, and your instructors will not reveal that you are registered with AS.

Specific Medical Circumstances

If you become ill and it affects your ability to do your academic work, consult me right away. Normally, I will ask you for documentation in support of your specific medical circumstances. This documentation can be an Absence Declaration (via ACORN) or the University's Verification of Student Illness or Injury (VOI) form. The VOI indicates the impact and severity of the illness, while protecting your privacy about the details of the nature of the illness. If you cannot submit a VOI due to limits on terms of use, you can submit a different form (like a letter from a doctor), as long as it is an original document, and it contains the same information as the VOI (including dates, academic impact, practitioner's signature, phone and registration number). For more information on the VOI, please see <http://www.illnessverification.utoronto.ca>. For information on Absence Declaration Tool for A&S students, please see <https://www.artsci.utoronto.ca/absence>. If you get a concussion, break your hand, or suffer some other acute injury, you should register with Accessibility Services as soon as possible.

Make-Up Assessments

If you miss the term test, you must provide documentation explaining your absence (see above) and complete a make-up test in a timely fashion. If you do not complete a make-up

test, you will receive a grade of 0 for the it. To ensure a make-up test can be completed as soon as possible, please contact the instructor within one week of the missed test. Most make-up tests should be scheduled within one week of the original test and completed within two weeks of the original test.

If you miss the formal final exam, you must write a deferred final exam at a later date. The deferred final exam will be similar in format to the missed final exam. To be eligible for a deferred exam, you will need to file a petition with your College RO immediately following missing the exam.

Late/Missed Assignments

The standard late penalty is 10% per day late. If exceptional circumstances prevent you from submitting an assessment on time, please contact the instructor to discuss your situation.

Re-marking Policy - Timeline and Protocol

Inquiries must be made within two weeks of the returned grade. A regrade of your assessment may increase your grade, have no effect or decrease your grade (e.g. if an adding error is discovered during the re-evaluation). Please let us know if we can help you.

Academic Integrity

All suspected cases of academic dishonesty will be investigated following procedures outlined in the [Code of Behaviour on Academic Matters](https://governingcouncil.utoronto.ca/secretariat/policies/code-behaviour-academic-matters-july-1-2019) (<https://governingcouncil.utoronto.ca/secretariat/policies/code-behaviour-academic-matters-july-1-2019>). If you have questions or concerns about what constitutes appropriate academic behaviour or appropriate research and citation methods, please reach out to me. Note that you are expected to seek out additional information on academic integrity from me or from other institutional resources. For example, 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 [A&S Student Academic Integrity](https://www.artsci.utoronto.ca/current/academic-advising-and-support/student-academic-integrity) (<https://www.artsci.utoronto.ca/current/academic-advising-and-support/student-academic-integrity>) and the [University of Toronto Website on Academic Integrity](https://www.academicintegrity.utoronto.ca) (<https://www.academicintegrity.utoronto.ca>).

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>).