



Psychology
UNIVERSITY OF TORONTO
SCARBOROUGH

Clinical Neuropsychology

PSYC31H3

Web Option Asynchronous Lectures

&

Synchronous Remote Supplement Lectures

(12:00pm to 1:00pm on Thursdays during lecture weeks)

Course E-mail: PSYC31UTSC@gmail.com

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Office Hours: by remote platform and appointment only

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Brief Description of Clinical Neuropsychology

Neuropsychology is the research discipline that seeks to understand brain and behavior relationships through the study of both healthy and damaged central nervous systems. It seeks to identify the biological substrates of behaviors, from creative genius to mental illness, which account for intellectual processes as well as personality.

Clinical Neuropsychology is an *applied science* that is concerned with the behavioural expression of brain dysfunction (Lezak et al., 2004). The clinical neuropsychologist uses standardized tests to tie the biological and behavioral aspects together. Inferences are made on the basis of accumulated research. Overall, the clinical neuropsychologist interprets every aspect of the examination (both quantitative and qualitative components) to ascertain the relative cognitive strengths and weaknesses that a patient with suspected or known neuropathology. Findings from a neuropsychological examination can be used to make diagnoses, inform rehabilitation strategies, and direct various aspects of patient care.

Learning objectives:

In this course we will comprehensively explore the science and practice of clinical neuropsychology.

1. *To understand the history, theory and practice of neuropsychological assessment as it pertains to adults throughout the age spectrum (ie. Young adulthood to seniors)*
2. *To become familiar with various assessment procedural matters.*
3. *To become familiar with the behavioural geography of the brain and its functional relationship to various cognitive constructs including orientation, attention, perception, memory, verbal functions and language skills, construction, concept formation and reasoning, executive formation and reasoning, executive functions and motor performance.*
4. *To develop familiarity with the clinical presentation of various neurological and psychiatric disorders*
5. *To be mindful of individual differences, various behavioural variables, and diagnostic issues as it pertains to the assessment process (e.g., age, cultural, racial, gender, sexuality, class, religion, other aspects of identity and the intersections among these, medication side effects, personality etc).*
6. *To understand the rationale of deficit management (e.g., normative comparison, standardization, test score interpretation)*
7. *To interpret assessment findings and to be mindful of misinterpretive errors.*
8. *To develop familiarity with test administration, and case conceptualization by way of experiential learning with a faux patient.*

Important Notes

- A. All course related inquiries are to be directed to the course E-Mail address as provided on the first page.
- B. Every enrolled student must ensure that they have access to the course website via the UTSC Quercus. All course related content will be posted here (e.g., lecture slides, important announcements, and midterm grades).
- C. All students need to ensure that they have the necessary prerequisites for this course. If this course is taken without having completed the prerequisites, the registrar will not allow you credit for this course at the time of graduation. This can jeopardize the completion of your degree.

D. The prerequisites are as follows:

- a. Abnormal Psychology (now titled Introduction to Clinical Psychology; PSYB32H)
- b. AND any one of the following: Psychological Research Methods (PSYB01H) OR Foundations in Psychological Research (PSYB04H) OR Methods in Psychological Science (PSYB70)
- c. AND any one of the following: Human Brain & Behaviour (PSYB65H) OR Introduction to Cognitive Neuroscience (PSYB55)
- d. AND any one of the following statistics courses: PSYB07H, STAB22H OR STAB23H.

The only exclusion for this course is PSYC32H, which is reserved for co-op students in the Co-op Behavioural Disorders Stream.

E. This course is being delivered via WEB OPTION only secondary to circumstances beyond our present control that I am certain you are all tired of; just as much as I am! If you were expecting an in-class room lecture with the professor, this course is not for you. It is amazing to us that students will enroll in a WEB OPTION only course and at course end, complain that there were no in-class lectures. Please don't be one of these students!

- Every enrolled student must ensure that they have access to the course website via the UTSC Quercus Portal. All course related content will be posted here (e.g., lecture slides, supplementary readings, important announcements, and so on). The only format that will be used for all posted documents is Adobe PDF. Free reading software is available at www.adobe.com.
- For reasons of privacy as well as protection of copyright, unauthorized video or audio recording in classrooms or via remote delivery is strictly prohibited. This is outlined in the Provost's guidelines on *Appropriate Use of Information and Communication Technology*. Note, however, that these guidelines include the provision that students may obtain consent to record lectures and, "in the case of private use by students with disabilities, the instructor's consent must not be unreasonably withheld."

Department of Psychology Missed Term Work Policy

For missed term work (assignments and term tests) due to illness, emergency, or other mitigating circumstances, please follow the procedure outlined below.

Procedure:

1. Complete the [Request for Missed Term Work Accommodations Form](#) ("MTW Form").
2. Email **BOTH** your MTW Form and Supporting Documentation to **<course email>** according to the instructions specified below.

Supporting Documentation Requirements and Deadlines:

Reason for Missed Work	Documentation required for a first absence in the term	Documentation required for subsequent absences in the term	Deadline for submitting MTW form and supporting documentation
Illness or Injury	ACORN Absence Declaration	UofT Verification of Illness Form	WITHIN 2 BUSINESS DAYS of the missed work
Bereavement	ACORN Absence Declaration	A death certificate or funeral announcement	WITHIN 2 BUSINESS DAYS of the missed work
University-sponsored athletic or artistic obligation at the varsity/provincial/national level	ACORN Absence Declaration	A note from a university staff member (advisor, coach, residence staff, etc.) who can substantiate the obligation, sent directly to the course email	10 BUSINESS DAYS IN ADVANCE of the missed deadline
	For missed TERM TESTS ,		
	<ul style="list-style-type: none"> - Contact your AccessAbility consultant and have them write to the course email detailing the accommodations needed. 		
Disability-related reasons for students registered with AccessAbility Services	For missed ASSIGNMENTS ,		
	<ul style="list-style-type: none"> - If your desired accommodation is within the scope of your Accommodation Letter (e.g. your letter includes "extensions of up to 7 days" and you need 3 days), send your Accommodation Letter to the course email and specify how many days extension you are requesting. - If your desired accommodation is 		PREFERABLY IN ADVANCE OF THE MISSED WORK, OR AS SOON AS POSSIBLE

	outside the scope of your Accommodation Letter (e.g. your letter includes “extensions of up to 7 days” but you need more time than that), contact your AccessAbility consultant and have them write to the course email detailing the accommodations needed.	
Academic Conflict (e.g. two midterms at the same time)	Screenshot from Quercus demonstrating the conflict.	10 BUSINESS DAYS IN ADVANCE of the missed work
Religious Conflict	None required	

Notes:

- The following reasons are not considered sufficient for missed term work: social activities, recreational travel, technological issues, avoidance of assessments or deadlines, work commitments
- [Missed Final Exams](#) are handled by the Registrar’s Office and should be declared on eService.
- For ACORN absence declarations, the date you declare the absence is required to fall within the seven-day declaration period (i.e.) the absence cannot be submitted proactively or retroactively.
- Instructors cannot accept term work any later than five business days after the last day of class. Beyond this date, accommodations are only possible via the Registrar’s Office [petition process](#).
- If you are unable to submit your request within the specified number of business days, you must still email your instructor within that window to explain the nature of the delay. Exceptions to the deadlines are made only under exceptional circumstances.
- Multiple assignments due on the same day are not considered academic conflicts. Students are expected to manage their time effectively to meet assignment deadlines.
- Back-to-back tests/quizzes are not considered academic conflicts. Only overlapping activities are conflicts.
- Students are responsible for keeping their course timetables conflict-free. Students who register in two courses with overlapping lecture/tutorial/lab schedules will not be accommodated.

Next Steps:

After submitting your documentation, you will receive a response from your instructor or TA. The course instructor reserves the right to decide what accommodations will be made. Failure to adhere to any aspect of this policy may result in a denial of your request. **You are responsible for checking your official U of T email and Quercus course announcements daily**, as accommodations may be time-critical.

For missed assignments, **do not wait for the instructor's response to resume work on your assignment.** Extensions may be as short as one business day, depending on the nature of the illness/emergency. Complete your assignment as soon as you're able, and email it to your instructor.

If an accommodation is granted but a continued illness/emergency prevents you from meeting its requirements, you must repeat the missed term work procedure to request additional accommodations. **Please make it clear in your subject line that you are requesting a second accommodation.** Examples: If you were granted an extension for a paper but are still unable to meet the new deadline, or if you miss a make-up term test, you must submit *another* MTW form and supply documentation according to the "subsequent absences" column in the chart above. *Note: In the case of a missed make-up test, an opportunity to write a second make-up test may not necessarily be provided.

The email address to submit missed term work accommodation requests in
PSYC31UTSC@gmail.com

Academic Integrity

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 is a strong signal of each student's individual academic achievement. As a result, the University treats cases of cheating and plagiarism very seriously. The University of Toronto's *Code of Behaviour on Academic Matters* (<http://www.governingcouncil.utoronto.ca/policies/behaveac.htm>) outlines the behaviours that constitute academic dishonesty and the processes for addressing academic offences. Potential offences include, but are not limited to:

On tests and exams:

- Using someone else's ideas or words without appropriate acknowledgement.
- Using or possessing unauthorized aids.
- Looking at someone else's answers during an exam or test.
- Misrepresenting your identity.
- Working in groups in person or online.
- Using aids during the exam.
- Contacting others during the exam (e.g., asking a friend for help, communicating with others in any way).

In academic work:

- Falsifying institutional documents or grades.
- Falsifying or altering any documentation required by the University, including (but not limited to) doctor's notes.

All suspected cases of academic dishonesty will be investigated following procedures outlined in the Code of Behaviour on Academic Matters. **Any evidence of academic misconduct or use of aids will be reported to the registrar's office for investigation, and may result in an academic offense, a failure of exams or the course, and/or a permanent note on your academic transcript.** 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 (see <https://utsc.calendar.utoronto.ca/4-academic-integrity>).

University's 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>).



Readings

Lezak, M.D., Howieson, D.B., & Bigler, E. D., & Tranel, D. (2012). *Neuropsychological Assessment* (5th Edition). New York: Oxford University Press.

Grading Scheme

Your grade will be determined by three examinations and one paper assignment.

All exams are multiple-choice in format and will be held online through Quercus. All exams will be open book and will require you to apply the knowledge learned. All students must complete the exams independently.

1st Midterm

Administered online (Friday, October 6th, 2023, 3:00 pm – 4:30 pm)

Will consist of 60 multiple-choice questions

Worth 30% of your final grade

2nd Midterm

Administered online (Saturday, November 11th, 2023, 9:00 am – 10:30 pm)

Non-Cumulative

Will consist of 60 multiple-choice questions

Worth 30% of your final grade

Final Exam

UTSC final examination period

Administered online (date TBD by registrar)

Non-Cumulative (but representative of entire course learning)

Will consist of 60 multiple-choice questions

Worth 30% of your final grade

Paper Assignment

Worth 10% of your final grade

For this assignment, students will be presented with a Clinical Case demonstration that will unfold throughout the academic term. You will be provided with brief background information, referral documentation from the family physician, and neuropsychological test score data. In addition, you will be provided with weekly in-class demonstrations that will reflect the patient's disease/disorder. Your assignment will require you to write up your diagnostic impression and treatment recommendations for the fictitious patient. You will be expected to outline a clinical diagnosis and why you have made it. For example, you should speak to what symptoms were evident and how they fit into the clinical diagnosis you come up with (e.g., behavioral

observations, test findings; behavioral relationship to brain and disorder) and moreover, what other clinical diagnoses you ruled out and why (i.e., state your differential diagnosis if there is one to make, and select your clinical diagnosis and state why). The maximum length of this assignment is ONE page, double spaced using 12-point font - anything longer and you will be given a grade of 0% on this assignment. All submissions will go through Quercus. Please note that all papers will be processed through OurOriginal.

This assignment will be worth 10% of your final grade in the course and is due December 4, 2023 @ 11:55 pm on Quercus. Late submissions will result in a deduction of 10% per day to a maximum of 3 days.

Important Dates: 2023 Fall Session

Please visit:

<https://www.utsc.utoronto.ca/registrar/fall-2023-winter-2024-academic-dates>



Lecture Dates and Readings

- Lectures will be posted weekly on Mondays, BEFORE the supplementary lectures take place on Thursdays.
 - Except for the first week, where the lecture will be posted AFTER the live supplementary lecture.
- The “live” remote supplementary lectures will be held on Thursdays (only on weeks we have a lecture). The information to join the supplement lectures is provided below and will be posted in a course announcement.
 - Please be sure to join each week for our remote (i.e., via Zoom) synchronous supplement lectures where Dr. Zakzanis will reflect on the material from lecture and engage the class in further discussion and answer questions. Supplementary lectures are recommended but are not testable material.
 - These occur every week there is a lecture on Thursday, 12:00PM until November 30, 2023, 10 occurrence(s).

Topic: PsyC31 Supplementary Synchronous Lecture with Professor Zakzanis
Time: Sep 7, 2023 12:00 PM EST

- Sep 7, 2023 12:00 PM
- Sep 14, 2023 12:00 PM
- Sep 21, 2023 12:00 PM
- Sep 28, 2023 12:00 PM
- Oct 19, 2023 12:00 PM
- Oct 26, 2023 12:00 PM
- Nov 2, 2023 12:00 PM
- Nov 16, 2023 12:00 PM
- Nov 23, 2023 12:00 PM
- Nov 30, 2023 12:00 PM

Please download and import the following iCalendar (.ics) files to your calendar system.
Weekly: https://utoronto.zoom.us/meeting/tZ0tfu6spzMpH9B_JTIsfmDv2lVyx4Ce5Z_B/ics?icsToken=98tyKuGhrjItHt2dsxyDRpx5Aor4K0jxmFzegvp_ozXRKjNVbyfgZ050K6orM92F

Join Zoom Meeting

<https://utoronto.zoom.us/j/89097498354>

Meeting ID: 890 9749 8354

Passcode: 443060

Week of September 4

Lecture:

Welcome & Introduction

History, Theory and Practice of Neuropsychological Assessment

Chapter 1

Week of September 11

Lecture:

Basic Concepts

Chapter 2

Demonstration:

The Neuropsychological Examination: Procedures

Chapter 5

Week of September 18

Lecture:

The Behavioural Geography of the Brain

Chapter 3

Demonstration:

Orientation and Attention

Chapter 9

Week of September 25

Lecture:

The Rationale of Deficit Measurement

Chapter 4

Demonstration:

Perception

Chapter 10

Week of October 2 (Friday, October 6th, 2023, 3:00–4:30 pm)

First Mid-Term Examination

The examination will cover chapters 1, 2, 3, 4, 5, 9 & 10

Week of October 9

No class (Reading week)

Week of October 16

Lecture:

The Neuropsychological Examination: Interpretation

Chapter 6

Demonstration:

Memory I: Tests

Chapter 11

Week of October 23

Lecture:

Neuropathology for Neuropsychologists

Chapter 7

Demonstration:

Verbal Functions and Language Skills

Chapter 13

Week of October 30

Lecture:

Neuropathology for Neuropsychologists, Continued

Chapter 7

Demonstration:

Construction

Chapter 14

Week of November 6 (Saturday, November 11th, 2023, 9:00 – 10:30 am)

Second Mid-Term Examination

The examination will cover chapters 6, 7, 11, 13 & 14

The examination is non-cumulative

Week of November 13

Lecture:

Neurobehavioral Variables and Diagnostic Issues

Chapter 8

Demonstration:

Concept Formation and Reasoning

Chapter 15

Week of November 20

Lecture:

Neurobehavioral Variables and Diagnostic Issues Continued

Chapter 8

Demonstration:

Executive Functions and Motor Performance

Chapter 16

Testing for Response Bias and Incomplete Effort

Chapter 20

November 27

Lecture: Overall Review of the Neuropsychological Examination and Answers to Questions Regarding the Case Study.

December 4th, 2023, 11:55 pm: Term Paper due

December 7 to 20:

Final Examination Period

The final examination will be scheduled by the registrar's office approximately midway through the term. Details will be provided in class and on the intranet once known. **The final examination will cover Chapters 8, 15, 16, and 20** and is noncumulative although do note that the exam questions will be representative of entire course learning.

Frequently Asked Questions:

Q: *I missed the midterm. Can I write the makeup?*

A: Carefully read the information located under ***“Missed Term Work due to Medical Illness or Emergency”*** above.

Q: *I will be outside of the country during the test. Can I write the makeup?*

A: No. As a responsible student, you are expected to plan excursions accordingly. As soon as the registrar sends us a copy of the midterm/final examination schedule, we will post an announcement.

Q: *I don't have all the pre-requisites for this course. Can I still be enrolled?*

A: No. Pre-requisites are in place for a reason; many of the concepts build upon the content learned from prior courses. Allowing an exception would be unfair to the other students who took the pre-requisites.

Q: *I am not happy with my mark; is there anything I can do to improve it – like an extracurricular assignment?*

A: The best way to improve a mark is to study, study, study. The more you review the material, the more you will be able to ‘speak the language’ of clinical neuropsychology. Ask us questions – we’re here for you. Sorry, no extracurricular assignments.

Q: *I missed the makeup; can I write another exam or can I have my marks reweighed?*

A: If you have another valid medical reason for missing the makeup, please follow the instructions outlined on the previous page for missed term work.

Q: *I am on academic probation, and I need to bump up my final mark; otherwise, I will be kicked out of school! Can you please bump my mark?*

A: This situation is unfortunate and as much as we would like to help, it would be unethical and unfair to the rest of the students to bump a mark for an individual. Please do not email us with such requests.