



Psychology
UNIVERSITY OF TORONTO
SCARBOROUGH

Clinical Neuropsychology

PSYC31H3

Professor Konstantine K. Zakzanis

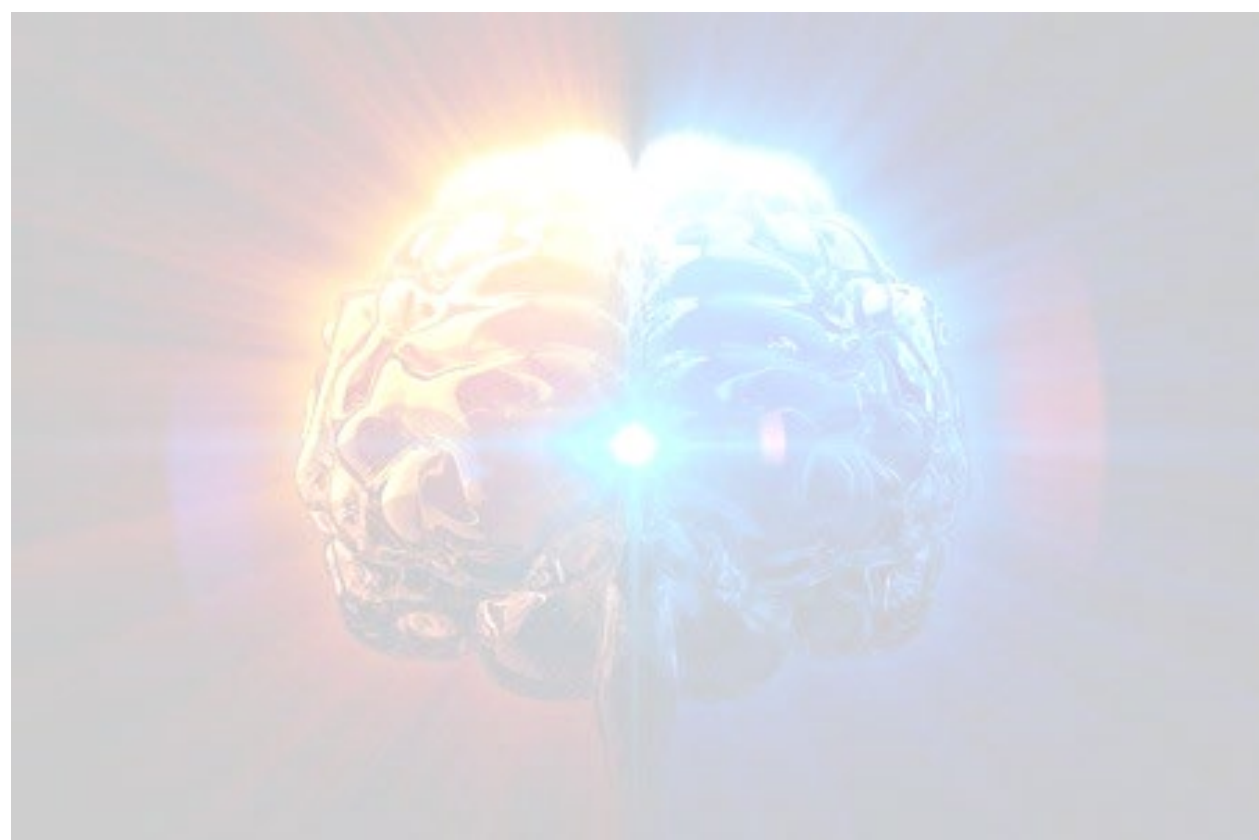
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Office Hours: Thursdays, 10:30am to 12:00pm by remote platform and appointment only

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Web Option Only with Asynchronous Lectures

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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.

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

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 Qurecus 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

If a student is absent from a midterm examination due to illness or other extenuating circumstance, they must follow the protocol outlined in this course outline for missed term work as follows:

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

Note:

- The following reasons are not considered sufficient for missed term work: travel for leisure, weddings, personal commitments, work commitments, human error.
- [Missed Final Exams](#) are handled by the Registrar's Office and should be declared on eService.
- 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](#).

The email address to submit missed term work accommodation requests in

PSYC31UTSC@gmail.com

ILLNESS OR EMERGENCY ACCOMODATIONS:

For missed work due to ILLNESS OR EMERGENCY, complete the following process:

1. Complete the [Request for Missed Term Work Accommodations Form](#).
2. Declare your absence on [ACORN](#) (Profile & Settings > Absence Declaration)
3. Email **both** of the following items to the course email **WITHIN 2 BUSINESS DAYS** of the missed work:
 - a. the [Request for Missed Term Work Accommodations Form](#)
AND
 - b. a screenshot of your Self-Declared Absence on ACORN

Note:

- *If you are unable to submit your request within 2 business days, you must still email your instructor within the 2 business day window to explain the nature of the delay. Exceptions to the 2 business day deadline will only be made under exceptional circumstances.*
- *If your absence is declared on ACORN, we do not require any additional supporting documentation (e.g. medical notes) to support your missed term work accommodation request.*

ACADEMIC CONFLICT ACCOMODATIONS:

For missed term work due to an ACADEMIC CONFLICT (e.g. two midterms at the same time):

1. Complete the [Request for Missed Term Work Accommodations Form](#).
2. Take screenshots of your course Quercus pages that demonstrate the conflict.
3. Email the form and screenshots to the course email **at least two weeks (10 business days) before the date of the activity**, or as soon as possible if it was not possible to identify the conflict earlier. Requests sent after the activity deadline may not be accommodated.

Note:

- *Multiple assignments due on the same day are not considered conflicts. Students are expected to manage their time effectively to meet assignment deadlines.*
- *Back-to-back tests/quizzes are not considered 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.*

RELIGIOUS CONFLICT ACCOMODATIONS:

For missed term work due to a RELIGIOUS CONFLICT:

1. Complete the [Request for Missed Term Work Accommodations Form](#).
2. Email the form to the course email **at least two weeks (10 business days) before the date of the activity**, or as soon as possible if it was not possible to identify the conflict earlier. Requests sent after the activity deadline may not be accommodated.

ACCESSABILITY SERVICES ACCOMODATIONS:

For missed **TERM TESTS** due to ACCESSABILITY REASONS:

- **Contact your AccessAbility consultant** and have them email the course email detailing accommodations required.

For missed **ASSIGNMENTS** due to ACCESSABILITY REASONS:

- 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):
 1. Complete the [Request for Missed Term Work Accommodations Form](#).
 2. Email the form ***AND*** your **Accommodation Letter** to the course email specifying how many days extension you are requesting.
- If your desired accommodation is **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):
 1. **Contact your AccessAbility consultant** and have them email the course email detailing the accommodations required.

Accommodation Procedure:

After submitting your documentation, you will receive a response from your instructor or TA. This form does not guarantee that you will be accommodated. The course instructor reserves the right to decide what accommodations (if any) 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.

For an **anticipated absence** (e.g. a scheduled surgery or an illness with a prolonged recovery period), if you would like to request accommodations in advance, submit a [Verification of Illness Form](#) completed by your doctor AND the [Request for Missed Term Work Accommodations Form](#) to the course email. Absences can be declared up to 14 days into the future on ACORN.

Missed Accommodations

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**. E.g. If you are given an extension but are still sick and need more time, or if you miss a make-up term test, you must submit *another* [Request for Missed Term Work Accommodations Form](#) and declare your extended absence on ACORN.

*Note: In the case of a missed make-up test, an opportunity to write a second make-up test may not necessarily be provided.

Disability-Related Accommodations

Students with diverse learning styles and needs are welcome in this course. In particular, if you have a disability/health consideration that may require accommodations, please feel free to approach me and/or the AccessAbility Services Office (<http://www.utsc.utoronto.ca/ability/>) as soon as possible.

AccessAbility Services staff (located in Rm AA142, Arts and Administration Building) are available by appointment to assess specific needs, provide referrals and arrange appropriate accommodations. Please contact 416-287-7560 (tel/TTY) or email ability.utsc@utoronto.ca for more information.

The sooner you let us know your needs the quicker we can assist you in achieving your learning goals in this course.

Religious Accommodations

The University has a commitment concerning accommodation for religious observances. I will make every reasonable effort to avoid scheduling tests, examinations, or other compulsory activities on religious holy days not captured by statutory holidays. According to University Policy, if you anticipate being absent from class or missing a major course activity (like 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.

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>).

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 (date TBD by registrar)

Will consist of 60 multiple-choice questions

Worth 30% of your final grade

2nd Midterm

Administered online (date TBD by registrar)

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 turnitin.com.

This assignment will be worth 10% of your final grade in the course and is due December 5, 2022 @ 11:55 pm on Quercus. Late submissions will result in a deduction of 10% per day to a maximum of 3 days.

Important Dates: 2022 Fall Session

Please visit:

<https://www.utsc.utoronto.ca/registrar/fall-2022-winter-2023-academic-dates>

Lecture Dates and Readings

Week of September 6

Lecture:

Welcome & Introduction

History, Theory and Practice of Neuropsychological Assessment

Chapter 1

Week of September 12

Lecture:

Basic Concepts

Chapter 2

Demonstration:

The Neuropsychological Examination: Procedures

Chapter 5

Week of September 19

Lecture:

The Behavioural Geography of the Brain

Chapter 3

Demonstration:

Orientation and Attention

Chapter 9

Week of September 26

Lecture:

The Rationale of Deficit Measurement

Chapter 4

Demonstration:

Perception

Chapter 10

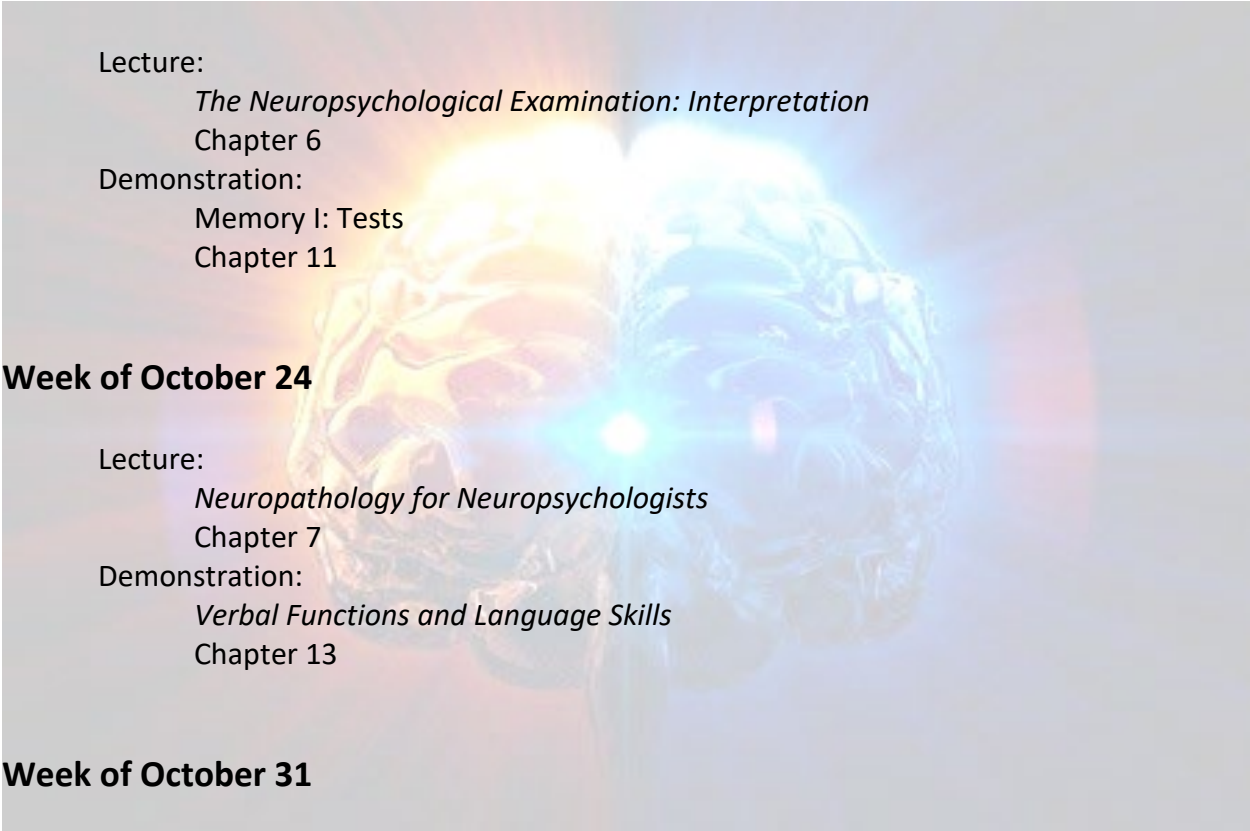
Week of October 3 (week requested, however the registrar may schedule the exam for another week depending on availability)

First Mid-Term Examination
The examination will cover chapters 1, 2, 3, 4, 5, 9 & 10

Week of October 10

No class (Reading week)

Week of October 17



Lecture:
The Neuropsychological Examination: Interpretation
Chapter 6

Demonstration:
Memory I: Tests
Chapter 11

Week of October 24

Lecture:
Neuropathology for Neuropsychologists
Chapter 7

Demonstration:
Verbal Functions and Language Skills
Chapter 13

Week of October 31

Lecture:
Neuropathology for Neuropsychologists, Continued
Chapter 7

Demonstration:
Construction
Chapter 14

Week of November 7 (week requested, however the registrar may schedule the exam for another week depending on availability)

Second Mid-Term Examination

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

The examination is non-cumulative

Week of November 14

Lecture:

Neurobehavioral Variables and Diagnostic Issues

Chapter 8

Demonstration:

Concept Formation and Reasoning

Chapter 15

Week of November 21

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 28

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

December 5th, 2022, 11:55 pm: Term Paper due

December 8 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 non cumulative 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.