# Clinical Neuropsychology 

PSYC31H3<br>WEBOPTION ONLY<br>Professor Konstantine K. Zakzanis<br>konstantine.zakzanis@utoronto.ca<br>Teaching Assistants:<br>Sabrina Adamo<br>Melanie Mascarenhas<br>Angela Sekely

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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!
F. If a student is absent from a midterm examination due to illness or other extenuating circumstance, they must follow the protocol outlined in the syllabus for missed term work (see last page).
G. Make-up midterm examination details will be listed on Quercus.
H. 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 as soon as possible. AccessAbility Services staff (located in Rm SW302, Science Wing) are available by appointment to assess specific needs, provide referrals and arrange appropriate accommodations 416-287-7560 or email ability@utsc.utoronto.ca. The sooner you let us know your needs the quicker we can assist you in achieving your learning goals in this course.
I. For reasons of privacy as well as protection of copyright, unauthorized video or audio recording in classrooms is 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."
J. Grade Scales and Meaning of Grades

| NUMERICAL MARKS | LETTER GRADE | GRADE POINT VALUE |
| :--- | :--- | :--- |
| $90-100 \%$ | A+ | 4.0 |
| $85-89 \%$ | A | 4.0 |
| $80-84 \%$ | A- | 3.7 |
| $77-79 \%$ | B+ | 3.3 |
| $73-76 \%$ | B | 3.0 |
| $70-72 \%$ | B- | 2.7 |
| $67-69 \%$ | C + | 2.3 |


| $63-66 \%$ | C | 2.0 |
| :--- | :--- | :--- |
| $60-62 \%$ | C- | 1.7 |
| $57-59 \%$ | D+ | 1.3 |
| $53-56 \%$ | D | 1.0 |
| $50-52 \%$ | D- | 0.7 |
| $0-49 \%$ | F | 0.0 |

K. 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:

## In papers and assignments:

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


## On tests and exams:

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


## 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. 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 http://www.utoronto.ca/academicintegrity/).

Lastly, you may see advertisements for services offering grammar help, essay editing and proof-reading. Be very careful. If these services take a draft of your work and significantly change the content and/or language, you may be committing an academic offence (unauthorized assistance) under the Code of Behaviour on Academic Matters. It is much better and safer to take your draft to the Writing Centre as early as you can. They will give you guidance you can trust. Students for whom English is not their first language should go to the English Language Development Centre. If you decide to use these services in spite of this caution, you must keep a draft of your work and any notes you made before you got help and be prepared to give it to your instructor on request.

## Readings

Lezak, M.D., Howieson, D.B., \& Bigler, E. D., \& Tranel, D. (2012). Neuropsychological Assessment ( $5^{\text {th }}$ 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.

## $1^{\text {st }}$ Midterm

Administered online (date TBD by registrar)
Will consist of 60 multiple-choice questions
Worth $30 \%$ of your final grade

## $2^{\text {nd }}$ 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 $\mathbf{1 0 \%}$ of your final grade in the course and is due December 8, 2021 @ 11:55 pm on Quercus. Late submissions will result in a deduction of $\mathbf{1 0 \%}$ per day to a maximum of $\mathbf{3}$ days. 

## Important Dates: 2021 Fall Session

Please visit:
https://www.utsc.utoronto.ca/registrar/sessional-dates-fall-2021-winter-2022-and-summer-2022

## Lecture Dates and Readings

## Week of September 7

Lecture:
Welcome \& Introduction
History, Theory and Practice of Neuropsychological Assessment
Chapter 1
Week of September 13
Lecture:
Basic Concepts
Chapter 2
Demonstration:
The Neuropsychological Examination: Procedures
Chapter 5
Week of September 20
Lecture:
The Behavioural Geography of the Brain
Chapter 3
Demonstration:
Orientation and Attention
Chapter 9

Week of September 27
Lecture:
The Rationale of Deficit Measurement
Chapter 4
Demonstration:
Perception
Chapter 10

Week of October 4-9 (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 11

No class (Reading week)

## Week of October 18

Lecture:
The Neuropsychological Examination: Interpretation
Chapter 6
Demonstration:
Memory I: Tests
Chapter 11

## Week of October 25

Lecture:
Neuropathology for Neuropsychologists
Chapter 7
Demonstration:
Verbal Functions and Language Skills
Chapter 13

## Week of November 1

Lecture:
Neuropathology for Neuropsychologists, Continued
Chapter 7
Demonstration:
Construction
Chapter 14

Week of November 8-13 (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 15

Lecture:
Neurobehavioral Variables and Diagnostic Issues
Chapter 8
Demonstration:
Concept Formation and Reasoning
Chapter 15

## Week of November 22

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 29

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

## December 8, 2021, 11:55 pm: Term Paper due

## December 9 to 21:

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.

## Psychology Department Missed Term Work Policy, Fall 2021

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

- 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: http://www.utsc.utoronto.ca/registrar/missing-examination
- Instructors cannot accept term work any later than five business days after the last day of class. Beyond this date, you would need to file a petition with the Registrar's Office: https://www.utsc.utoronto.ca/registrar/term-work


## Accommodations for Illness or Emergency:

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

1. Complete the Request for Missed Term Work Accommodations Form (http://uoft.me/PSY-MTW)
2. Declare your absence on ACORN (Profile \& Settings > Absence Declaration)
3. Email both the Request for Missed Term Work Accommodations Form AND a screenshot of your Self-Declared Absence on ACORN to the email address provided by your instructor on the course syllabus WITHIN 2 BUSINESS DAYS of the missed work.

Note: If you are unable to submit your documents within 2-business days, you must still email your instructor within the 2-business day window to explain the nature of the delay, and when you will be able to provide your documents. Exceptions to the documentation deadline will only be made under exceptional circumstances. Note: For this semester, we do not require any additional supporting documentation (e.g. medical notes) to support your missed term work accommodation request.

## Accommodations for Academic Conflicts:

For missed term work due to an ACADEMIC CONFLICT (i.e. two midterms scheduled at the same time), please complete the following process:

1. Complete the Request for Missed Term Work Accommodations Form (http://uoft.me/PSY-MTW), choosing "Other" and explaining the conflict in the space provided.
2. Take screenshots of your course homepages that demonstrate the conflict.
3. Email the form and screenshots to your course instructor 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.
Note: Multiple assignments due on the same day are not considered conflicts.
Accommodations may only be possible in the case of quizzes and tests that are both scheduled during the same discrete period. Back-to-back tests/quizzes are not considered conflicts.
Note: Students are responsible for keeping their course timetables conflict-free. Students who choose to register in two synchronous courses with overlapping lecture/tutorial/lab schedules may not necessarily be accommodated.

## Accommodations for Religious Conflicts:

For missed term work due to a RELIGIOUS CONFLICT, please complete the following process:

1. Complete the Request for Missed Term Work Accommodations Form (http://uoft.me/PSY-MTW), choosing "Other" and noting "Religious conflict" in the space provided.
2. Email the form to your course instructor at least two weeks ( $\mathbf{1 0}$ business days) before the date of the activity, or as soon as possible if it was not possible to identify the conflict earlier.

## Accommodations for Time Zone Conflicts:

If you are physically in a different time zone and a quiz or midterm is scheduled outside of 7:00am to midnight in your local time, please complete the following process:

1. Complete the Time Zone Conflict Form (https://uoft.me/PSY-TimeZone), and
2. Email the form to your course instructor 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.

Accommodations for Students Registered with AccessAbility Services:
For missed TERM TESTS due to ACCESSABILITY REASONS:

- Contact your AccessAbility consultant and have them email your instructor 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 your instructor, 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 your instructor 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 for accommodation. 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 an instructor response to resume work on your assignment. Extension accommodations may be as short as one business day, depending on the nature of the illness/emergency. You should complete your assignment as soon as you are able and email it your instructor.

For an anticipated event (e.g. scheduled surgery or an illness with a prolonged recovery period), submit a Verification of Illness Form completed by your doctor, AND this form to your instructor if you would like to request accommodations in advance of the assignment deadline or midterm date. Declare your future absence on ACORN (absences can be declared up to 14 days in the future).

## Missed Accommodations

If an accommodation is granted but a continued illness/emergency prevents you from meeting the requirements of your accommodation, 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. For example, if you are given an extension but are still sick and need more time, or if you miss a make-up midterm, you must submit another request 'Missed Term Work Accommodations' form and declare your extended absence on ACORN. ***Note: In the case of a missed makeup test, an opportunity to write a second make-up test may not be provided.

