

The Clinical Neuropsychology Stream Students' Handbook
Department of Psychology
York University

January 2017

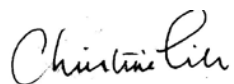
This handbook is intended to provide you with information specifically relevant to the Clinical Neuropsychology stream and will supplement the information that you receive from other sites. For students in the Clinical Area, this includes the Clinical Students' Handbook and for students in the Clinical-Developmental Area this includes the Clinical-Developmental Students' Handbook. In addition, this material will supplement information provided by the *Graduate Program in Psychology Handbook*.

It is also hoped that you will use this as a working document. For instance, we have included a PhD planning template to help guide your thinking about your progress through the program and to facilitate discussions with your supervisor. You may also find it helpful to add relevant information to the appropriate sections as it becomes available.

Because this is a working document, we welcome hearing from you about any additions or changes that you would like to suggest to be included in future editions.

The current Clinical Neuropsychology Stream administrative assistant is Sabrina Iantorno (sian@yorku.ca), Room 281 BSB. She can assist you in finding the current Chair of various committees and can answer any questions about this handbook.

Thank you and best wishes,



Coordinator, Clinical Neuropsychology Stream

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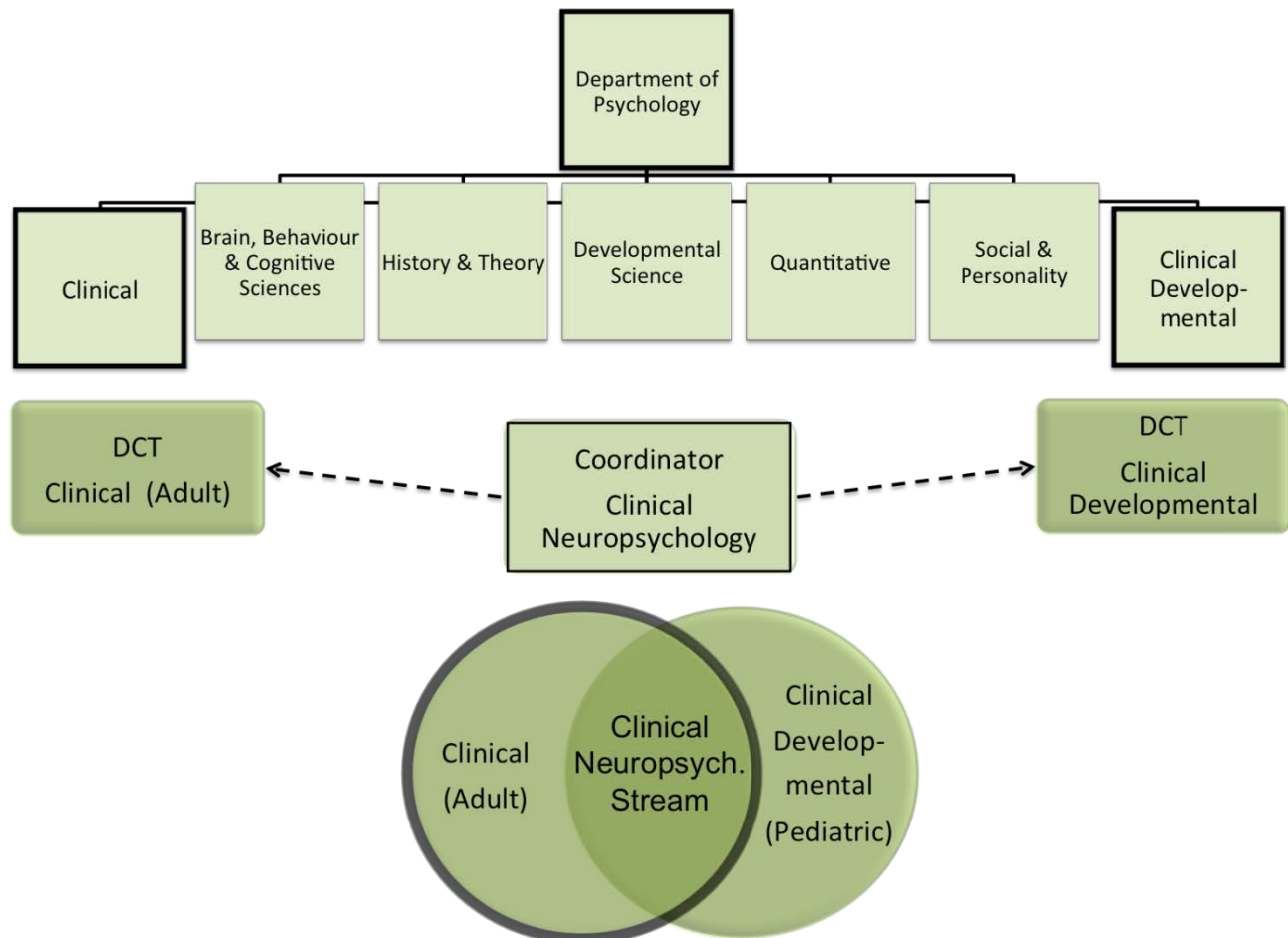
Overview of Clinical Neuropsychology Stream

The Clinical Neuropsychology Stream is embedded within the Clinical and Clinical-Developmental areas, both of which are accredited by the Canadian Psychological Association (CPA). The Clinical Neuropsychology Stream builds on the course work and training offered by the Clinical and Clinical-Developmental areas and offers the additional courses and training that are needed to become registered and offer clinical neuropsychological services. As the figure shown below depicts, the Clinical Neuropsychology stream includes faculty and students from the Clinical and Clinical-Developmental Areas, and these two Areas are part of the Department of Psychology. In 2016, the Clinical Neuropsychology program (Clinical area) was accredited by CPA. We are currently seeking accreditation for the Clinical Neuropsychology program (Clinical Developmental area).

Contact information for the CPA Registrar is:

Director, Education Directorate & Registrar, Accreditation
Canadian Psychological Association, Accreditation Office
141 Laurier Ave. W., Suite 702, Ottawa, Ontario K1P 5H3
Phone: 1-888-472-0657 (ext. 333)

Email: accreditation@cpa.ca Web site: <http://www.cpa.ca>



Educational Model of the Clinical Neuropsychology Stream

The primary educational model of the Clinical Neuropsychology Program is that of scientist-practitioner. Our objective is to educate students in the diverse knowledge and methodologies of contemporary clinical neuropsychology so that they are well equipped to (a) advance the science of neuropsychology and (b) provide appropriate and effective clinical neuropsychological services. The integration of science and practice is modeled by our faculty and taught in our courses, seminars, practica, and internships. Our students gain experience in all aspects of clinical neuropsychology as a science and practice, which includes historical background, neuroanatomy, assessment, diagnosis, intervention, and clinical research. At York, psychological science is given a liberal definition that encompasses theoretical as well as empirical research. In our view, the scientist informs and guides practice by (a) conducting research to generate new knowledge; (b) keeping abreast of research relevant to practice; (c) employing research findings in clinical decision-making; (d) modifying assessment and intervention practice in light of research and evaluation outcomes; and (e) communicating clinically relevant research findings and their practice implications to the wider professional community and to the public.

One of the strengths of the Clinical Neuropsychology Stream is that it is embedded within the Clinical and Clinical-Developmental areas and that the core faculty is drawn from the two areas. This unique grouping of faculty and students coupled with the training we offer enables our students to gain the expertise required to provide clinical services, in addition to the specialized training required to offer clinical neuropsychological services. The integration of faculty from the Clinical and Clinical Developmental areas enriches our courses and seminars by infusing developmental content into our seminars and course offerings.

It is important for students to plan their course selection and training requirements keeping in mind that they must satisfy the requirements of the Clinical Neuropsychology Stream and those of their program area (Clinical or Clinical-Developmental). Further information about area programs may be found in the Clinical Students' Handbook

<http://psychology.gradstudies.yorku.ca/about/clinical/>

and the Clinical-Developmental Handbook

<http://psychology.gradstudies.yorku.ca/about/cd/>

Admission to Clinical Neuropsychological Stream

Students wishing to apply for admission to the Clinical Neuropsychology Stream must be graduate students who are enrolled in the Clinical or Clinical-Developmental areas of Psychology. For students working with core neuropsychology faculty, applications should normally be submitted upon admission into the graduate program. Students working with non-core (i.e. non-neuropsychology) faculty members should formally apply to the program by January 15 of the MA 1 year (see application form; Appendix A). Applications by students must include a brief personal statement describing their interest in applying to the Clinical Neuropsychology Stream and must be accompanied by a brief letter of support from their thesis supervisor. While application at the MA level is encouraged, it is also possible to apply to the Clinical Neuropsychology Stream in the first year of the PhD, no later than January 15th of PhD

1. An application at the PhD level should include MA and PhD thesis topics and should be accompanied by a letter of support from the thesis supervisor. Applications should be submitted to the Neuropsychology Stream Coordinator by email or hard copy.

Students planning to enrol in the Clinical Neuropsychology Stream should review the course and training requirements for the Clinical Neuropsychology Stream carefully prior to submitting their application (Appendix A). In addition, students need to be aware that the PhD dissertation must be on a neuropsychology topic as well as either the MA thesis or the minor area paper.

Year-End Evaluations

At the end of the academic year, year-end reports are written for each student by DCTs. The Clinical Neuropsychology Stream coordinator will prepare a section for inclusion in the year-end report that will discuss progress of the student for the past year in their training specifically relevant to clinical neuropsychology. This section will be based on input from the primary supervisor and a review of attendance at the Clinical Neuropsychology Rounds. Please discuss any questions that you may have about the Clinical Neuropsychology Stream with your supervisor, and feel free to consult with the coordinator of the Clinical Neuropsychology stream.

Further information may be found in the Year-End Reports section of the Clinical Students' Handbook

<http://psychology.gradstudies.yorku.ca/about/clinical/>

or the Clinical-Developmental Handbook

<http://psychology.gradstudies.yorku.ca/about/cd/>

Clinical Neuropsychology Stream Course Offerings

In this section the course and program requirements of the Clinical Neuropsychology stream are presented. The table below presents in tabular form the Clinical Neuropsychology Stream course requirements. This is followed by a brief description of the courses, and then by a list of the courses and other requirements at the MA and PhD levels.

For further information please see the Clinical Handbook <http://psychology.gradstudies.yorku.ca/about/clinical/> and Clinical-Developmental Handbook <http://psychology.gradstudies.yorku.ca/about/clinical/>

Clinical Neuropsychology Stream Requirements

Completion of:	Clinical	CD
Clinical Psychology Program	X	
Clinical-Developmental Psychology Program		X
PSYC 6325 Clinical Neuroanatomy (or equivalent)	X	X
PSYC 6320 Human Neuropsychology: History and Syndromes	X	X
PSYC 6450 Principles of Neuropsychological Assessment	X	
PSYC 6330 Cognitive Neurorehabilitation	X	Encouraged
PSYC 6945 Applied Pediatric Neuropsychology		X
One external practicum with supervised experience in neuropsychological assessment	X	X
Clinical competency examination on neuropsychological assessment case	X	
MA thesis and/or minor area paper on a topic relevant to clinical neuropsychology	X	X
Dissertation a topic relevant to clinical neuropsychology	X	X
Internship with major rotation/experience in clinical neuropsychology	X	X
Regular attendance at Clinical Neuropsychology Rounds	X	X

Core Knowledge

Core Area (CPA)	Course	Description
Neuroanatomy	PSYC 6325 3.0 Required	Clinical Neuroanatomy. This course provides students with knowledge of the structures and pathways in the human central nervous system, and an understanding of their functions.
Human Neuropsychology	PSYC 6320 3.0 Required	Human Neuropsychology: History and Syndromes. This course provides a foundation in the basic topics and theoretical underpinnings of human neuropsychology through a historical overview of the clinical-pathological method. Extensive readings include classic papers spanning the earliest descriptions of various brain disorders to current reviews of major neuropsychology syndromes
Cognitive Rehabilitation	PSYC 6330 3.0 Required for Clinical; Encouraged for CD student	Cognitive Neurorehabilitation. This course introduces students to current topics in cognitive neurorehabilitation with a view to translating intervention research into novel, brain-based approaches to the treatment of cognitive decline.
Assessment	PSYC 6450 3.0 Required for Clinical Students Only	Principles of Neuropsychological Assessment. This course addresses a number of topics in the practice of clinical neuropsychological assessment. Data derived from various sources, including clinical interviews, neurological histories, as well as data from various neuropsychological measures, is interpreted and integrated within the framework of individual case studies. Specific topics include evaluation of head injury, dementia, amnesias, and approaches to rehabilitation and intervention.
	PSYC 6945 3.0 Required for CD Students Only	Applied Pediatric Neuropsychology. This course will address a number of topics in the practice of clinical pediatric neuropsychology. Data derived from various sources including clinical interviews, neurological histories, as well as data from various neuropsychological measures, is interpreted and integrated within the framework of individual case studies. Specific topics include evaluation of childhood head injury, neurological disease, and learning disabilities.
Clinical Practica: Assessment/Intervention	PSYC 6440P 6.0: Required for Clinical	Clinical Practicum II. In this course, students secure an external practicum placement and receive training in neuropsychological assessment and/or intervention.

	Students Only	
	PSYC 6460P 6.0	Clinical Practicum III (Optional). This practicum provides extra clinical training that the student and the Director of Clinical Training deem necessary for the student to meet training requirements, such as assuring that the student has sufficient training in both assessment and intervention skills.
	PSYC 6910P or PSYC 6460 P 6.0: Required for CD Students Only	Introduction to the Psychological Assessment of Children Practicum. This course provides students with 330 hours of practicum training in psychological assessment. Placement in an applied setting is arranged. Regular class meetings with the course instructor provide monitoring of student progress. This could be in a neuropsychological setting.
Clinical Internship	PSYC 6840 6.0	A one-year, full-time clinical internship of 1800 hours (or 900 per year over two years) with a major rotation in neuropsychology.
Dissertation		Clinical neuropsychology students must complete their dissertation on a topic within the field of neuropsychology.

Monthly Neuropsychology Rounds

In addition to the courses listed above, students are required to attend the monthly Clinical Neuropsychology Rounds, which will contribute to professional development as a clinical neuropsychologist. Rounds are held from September until April, typically on the first Monday of every month from 1:30 to 2:45.

Presentations at rounds cover a range of topics that are of interest to clinical neuropsychologists (e.g. assessment issues, intervention approaches, neuropsychology-focused talks on neurologic or psychiatric populations). Roughly half of the presentations present topics have an adult focus and the other half have a pediatric focus. Most of the presentations are research based, but an effort is made to ensure that at least one presentation each academic year covers professional issues. Students are required to view missed talks, which are made available through the department website, and document this with Dr. Jill Rich.

Program Requirements for Adult Clinical Area

MA Program

MA I

- | | | |
|----|--------------------------------------------------------------------------------------------------------------------|----------------------------------|
| a) | Foundations of Clinical Psychology | 6420 6.0 (Y) |
| b) | Assessment in Psychology | 6430 6.0 (Y) |
| c) | Univariate Analysis I | 6131 3.0 |
| d) | Univariate Analysis II | 6132 3.0 |
| e) | Research Practicum | 6820A 6.0 |
| f) | Thesis Proposal | no course enrolment
necessary |
| g) | Clinical Neuropsychology Stream students must also have confirmed attendance
at Clinical Neuropsychology Rounds | |

Students are strongly encouraged to submit a prospectus by Feb 28 and a proposal by June 15 of the MA I year. See Graduate Psychology MA Thesis Guidelines for more details.

MA II

- | | | |
|----|--------------------------------------------------------------------------------------------------------------------|----------------------------------|
| a) | Evidence-Based Principles of Psychotherapy | 6436 3.0 |
| b) | Clinical Neuroanatomy | 6425 3.0** |
| c) | Clinical Practicum I | 6430P 6.0 (Y) |
| d) | Complete and Defend Thesis | no course enrolment
necessary |
| e) | Clinical Neuropsychology Stream students must also have confirmed attendance
at Clinical Neuropsychology Rounds | |

PhD Program

PhD I

- a) Psychodiagnostics* 6440 6.0 (Y)
- b) Advanced Intervention* 6445 6.0 (Y)
- c) Ethical Issues* 6490 B 3.0
- d)** Principles of Neuropsychological Assessment 6450 3.0 OR
Human Neuropsychology: History and Syndromes 6320 3.0
- e) Cognitive Neurorehabilitation 6330 3.0
- f) Confirmed attendance at Clinical Neuropsychology Rounds

PhD II

- a) Historical & Theoretical Foundations 6020 3.0 OR
of Contemporary Psychology A or B** 6030 3.0
- b) Practicum II** (*must include supervised experience in neuropsychological assessment*) 6440P 6.0
- c) 6 credits in courses specializing in quantitative methods from the statistics courses offered in graduate psychology, chosen from a list of courses approved by the program. 6140 6.0 (Y)
- d) Confirmed attendance at Clinical Neuropsychology Rounds

PhD III & IV

- a) Principles of Neuropsychological Assessment** 6450 3.0 OR
Human Neuropsychology: History and Syndromes** 6320 3.0

Cognitive Neurorehabilitation** 6330 3.0
- b) Minor Area Paper (usually on a neuropsychology topic; must be on a neuropsychology topic if MA thesis is not)
(*must be completed and approved by the end of PhD III -- see p. 15*)
- c) Clinical Competency Examination (*see p. 20*): *assessment case must involve a neuropsychological evaluation*
- d) Dissertation: topic must be relevant to clinical neuropsychology (as determined by the Clinical Neuropsychology Stream faculty)
- e) Practicum III (optional; with approval of DCT and clinical Neuropsychology stream coordinator) 6340P 6.0
Practicum III does not have to have a neuropsychology focus; it could include neurorehabilitation component

- f) Predoctoral Internship (*see p. 24*) 6840 6.0 OR
6840A 3.0 & 6840B 3.0
must include a major rotation/experience in clinical neuropsychology
- g) Additional supervised clinical training may be done if student completes an application for program-sanctioned hours (such as in the YUPC or off-site), signed by a registered clinical supervisor and the DCT.
- h) Confirmed attendance at Clinical Neuropsychology Rounds in all but internship year
- i) Attendance at Clinical Psychopharmacology for Psychologists workshop (offered every other year)

*Note: * Required in year indicated (note: MA students are not allowed to take Ethics).*

***All three of these courses must be taken at some point. Two of these courses fulfil the required electives for the Clinical Psychology program, and the third fulfils requirements for the Clinical Neuropsychology Stream.*

Further information about the course offerings and the Clinical Area requirements is contained in the Clinical Handbook

<http://psychology.gradstudies.yorku.ca/about/clinical/>

Program Requirements for Clinical-Developmental Area

MA Program

MA I

- | | | |
|----|---------------------------------------------------------------------------------------------------------------------------|----------|
| a) | Biological & Cognitive Bases of Development | 6905 3.0 |
| b) | Psychoeducational Assessment of Children and Adolescents | 6910 3.0 |
| c) | Social & Emotional Bases of Development | 6610 3.0 |
| d) | Univariate Analysis I | 6131 3.0 |
| e) | Univariate Analysis II | 6132 3.0 |
| f) | MA Thesis Research | 6000 |
| g) | Issues in CD Psychology:
A Proseminar in Ethics, Practice, and Research | 6900 3.0 |
| h) | Clinic Requirements – MA Program Sanctioned YUPC Hours –
30 hours over MA 1 and 2, with 10 direct client contact hours | |
| i) | Clinical Neuropsychology Stream students must also have confirmed attendance
at Clinical Neuropsychology Rounds | |

Students are strongly encouraged to submit a prospectus by Feb 28 and a proposal by June 15 of the MA I year. See Graduate Psychology MA Thesis Guidelines for more details.

MA II

- | | | |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| a) | Clinical and Diagnostic Assessment of Children and Adolescents | 6920 3.0 |
| b) | Developmental Psychopathology | 6955 3.0 |
| c) | Historical and Theoretical Foundations of Contemporary Psychology A <u>or</u> B OR
Advanced History and Theory of Psychology:
History of Professional Practices | 6020 3.0/
6030 3.0
6060 3.0 |
| d) | Clinical Developmental Psychology:
Cross Cultural and Diversity Issues | (.25 FCE course) |
| e) | MA Thesis Research | 6000 |
| f) | MA Program Sanctioned YUPC Hours | |
| g) | Confirmed attendance at Clinical Neuropsychology Rounds in all but internship year | |

NOTE: Students who are in the Neuropsychology Stream can take the Neuropsychology courses required in the summer of MA 2, after consultation with their supervisor and the CD area faculty in the stream. We have listed the courses below under the suggested PhD years, in order to most efficiently have you complete the requirements. These are starred and bolded.

PhD Program

PhD I

- | | | |
|----|-------------------------------------------------------------------------------------------------------|------------------------|
| a) | Introduction to the Psychological Assessment of Children Practicum Course (at York) | 6910P 3.0 |
| b) | Intervention Strategies with Children | 6930 3.0 (Winter term) |
| c) | Brief Psychotherapy & Short Term Treatment | 6480 3.0 |
| d) | Clinical Neuroanatomy | 6425 3.0** |
| e) | Assessment Practicum
(off-site, usually 2 days per week) | |
| f) | PhD Program Sanctioned Hours in the YUPC:
30 hours of clinical supervision over entire PhD program | |

PhD II (Typical courses)

- | | | |
|----|------------------------------------------------------------------------|-----------------------|
| a) | Intervention Strategies with Children Practicum Course (at York) | 6930P 3.0 (full year) |
| b) | Multivariate Analysis | 6140 6.0 |
| c) | Ethical Issues in Professional Practice
(could also take next year) | 6490B 3.0 |
| d) | Applied Pediatric Neuropsychology | 6945 3.0** |
| e) | Intervention Practicum
(off-site, usually 2 days per week) | |
| e) | Minor Area Paper | |
| f) | Ph.D Dissertation | 7000 |
| g) | PhD Program Sanctioned YUPC Hours | |

PhD III (Typical courses)

- | | | |
|----|----------------------------------------------|-----------|
| a) | Human Neuropsychology: History and syndromes | 6320.03** |
|----|----------------------------------------------|-----------|

- b) Any remaining required courses from PhD 1 and 2
- b) Remaining electives (if not taken in previous years)
- c) PhD Program Sanctioned YUPC Hours
- d) Professionalism and Ethical Conduct

PhD IV

- a) Internship Applications if not already completed in PhD 3.
- b) Dissertation Research completed.

Further information about the course offerings and requirements is contained in the Clinical-Developmental Handbook

<http://psychology.gradstudies.yorku.ca/about/cd/>

Student involvement in the YUPC

The York University Psychology Clinic (YUPC) is a state-of-the-art Psychology Clinic at York University that is affiliated with the Clinical and Clinical-Developmental areas of Psychology. The YUPC provides an opportunity to obtain additional experience with core, affiliate, or adjunct faculty at York University in neuropsychological assessment and other services provided by clinical neuropsychologists.

Further information about YUPC and opportunities for students is contained in the Clinical Handbook

<http://psychology.gradstudies.yorku.ca/about/clinical/>

and the Clinical-Developmental Handbook

<http://psychology.gradstudies.yorku.ca/about/cd/>

Criteria for Advancement from the MA to the PhD Clinical Neuropsychology stream, Transfer of Students to the PhD Clinical Program, and Admissibility of Special Students to the Clinical MA and PhD Programs

Students in the Clinical Neuropsychology Stream who have successfully completed the MA program and who are in the Clinical Area must apply for advancement to the PhD program. In general, students should have completed all of the MA requirements of the Clinical and Clinical-Developmental areas and the additional requirements of the Clinical Neuropsychology stream.

Information regarding the application process, transfer of students to the PhD Clinical program, and admissibility of special students, as defined in the Faculty of Graduate Studies Handbook, into the Clinical MA and PhD programs is contained in the Clinical Handbook

<http://psychology.gradstudies.yorku.ca/about/clinical/>

Petitions and appeals

A program petition and appeal should generally begin with your academic supervisor, followed by the Coordinator of the Clinical Neuropsychology Stream and Director of the Clinical or Clinical-Developmental training. See also the section entitled "When Problems Arise" in the Graduate Program in Psychology Handbook:

<http://psychology.gradstudies.yorku.ca/files/2015/06/HANDBOOK-2015-2016.pdf>

Additional information regarding professional issues, forms, and all other program requirements is contained in the Clinical Handbook <http://psychology.gradstudies.yorku.ca/about/clinical/>

and the Clinical-Developmental Handbook

<http://psychology.gradstudies.yorku.ca/about/clinical/>

Appendix A

CLINICAL NEUROPSYCHOLOGY STREAM APPLICATION FORM**Deadline: Jan 15, 2017****NOTE: This form is intended for students who did not declare interest in the Clinical Neuropsychology Stream at time of admission into the C or CD program**

Name: _____ Current year of study: _____

Date: _____ Program (check): ___ Clinical (Adult) ___ Clinical-Developmental

Primary Supervisor: _____

Title/topic of Master's thesis:

If applying as a Ph.D. student, please also indicate the title/topic of your proposed dissertation:

Checklist of application materials (check enclosed items):

- A brief letter describing your interests in clinical neuropsychology
- A brief letter/email from your primary supervisor indicating support for your application to apply to the clinical neuropsychology stream

Please direct your application and materials to the coordinator of the Clinical Neuropsychology Stream (Dr. Christine Till) at: npcoord@yorku.ca and ctill@yorku.ca

 Signature of applicant

 Date
Approval of application:

 Coordinator of Neuropsychology Stream

 Date

Clinical Neuropsychology Stream Requirements

Clinical Psychology Area	Clinical-Developmental Area
Completion of Clinical Psychology program requirements	Completion of or Clinical-Developmental Psychology Program
COURSES: Psyc 6325 Clinical Neuroanatomy (or equivalent) Psyc 6320 Human Neuropsychology: History and Syndromes Psyc 6450 Principles of Neuropsychological Assessment Psyc 6330 Cognitive Rehabilitation	COURSES Psyc 6325 Clinical Neuroanatomy (or equivalent) Psyc 6320 Human Neuropsychology: History and Syndromes Psyc 6945 Applied Pediatric Neuropsychology Note: Psyc 6330 Cognitive Rehabilitation (not currently required, but strongly recommended)
Confirmed attendance at Clinical Neuropsychology Rounds	Confirmed attendance at Clinical Neuropsychology Rounds
1 external practicum with supervised experience in neuropsychological assessment	1 external practicum with supervised experience in neuropsychological assessment
Internship placement with major rotation/ experience in clinical neuropsychology	Internship placement with major rotation/ experience in clinical neuropsychology
Dissertation topic relevant to clinical neuropsychology	Dissertation topic relevant to clinical neuropsychology
Clinical competency examination neuropsychological assessment case	