






PhD in Neurological Sciences

FACULTY OF MEDICINE | DEPARTMENT OF NEUROSCIENCES

Overview and specifics

NUMBER	3-530-1-0
LEVEL	Graduate
TYPE	Philosophiae Doctor (Ph. D.)
CREDITS	90 credits
PROGRAM TYPE	Dissertation or thesis track

-  Admission in fall, winter and summer
 -  Day course
 -  Offered at the Montréal
 -  Full-time
-  Admission suspended

Description

This program aims to help students gain in-depth knowledge and conduct an original research project in scientific study of the nervous system. The program gives students essential preparation for a career in research, teaching or practice in the following fields: cellular and molecular neurobiology, neuroanatomy, neurochemistry, neurophysiology, neuropharmacology, neuroendocrinology and neuropsychology.

Regulations

Studies in this program are governed by the educational regulations of the Faculty of Graduate and Postdoctoral Studies, and the following provisions:

1. Admission requirements

To be admitted as a regular student in the PhD (Neurological Sciences) program, candidates must:

- Meet the general admission requirements (section XI) of the "Règlement pédagogique de la Faculté des études supérieures et postdoctorales" (educational regulations of the Faculty of Graduate and Postdoctoral Studies).
- Have an MSc (Neurological Sciences) or an equivalent degree in a relevant discipline.
- Have obtained a grade-point average at the graduate level of at least 3.3 out of 4.3 or the equivalent.
- Demonstrate good knowledge of French (learn more).
- Demonstrate satisfactory knowledge of English and show proof of proficiency before being accepted into the second year of the program.

Program structure (3-530-1-0)

The doctorate program consists of 90 credits. Students may take the program without selecting an option (Segment 69) or choose the Neuropsychology option (Segment 70).

The doctorate program may also include other courses depending on students' needs.

Legend: CR: Credit, SC: Schedule, D: Day, E: Evening

SEGMENT 69 WITHOUT OPTION

84 mandatory credits, of which 78 are for research and a thesis, and 6 credits from elective courses.

Block 69A

From the list of available NRL courses.

Optional - maximum of 6 credits

Block 69B

Elective – maximum of 6 credits

Block 69C

Mandatory – 84 credits

COURSE	TITLE	CRSC
NRL 7000	PhD Comprehensive Examination	0
NRL 7904	Thesis	84

SEGMENT 70 NEUROPSYCHOLOGY OPTION

All credits in this option are mandatory.

Block 70A

Mandatory - 12 credits

A course taken at the MSc level may be replaced by a course in the optional block or by any other course deemed relevant. NRL 6051 is a prerequisite for all PSY courses.

COURSE	TITLE	CRSC	COURSE	TITLE	CRSC
LNG 6030	Language Pathology	3 D	PSY 6022	Methods in Cognitive Psychology and Neuropsychology	3
NRL 6051	Systems Neuroscience	3	PSY 6413	Neuropsychopathology I	3

Block 70B

All seminars or courses of programs included in the Memorandum of Agreement for Neuropsychology

Block 70C

Mandatory - 78 credits

COURSE	TITLE	CRSC
NRL 7000	PhD Comprehensive Examination	0
NRL 7905	Thesis	78

Programs to explore

Applicants interested in this program also applied to the following programs:

PROGRAMS	TYPE	CREDITS	NUMBER	PERIOD
Biomedical Sciences	Doctorate	90 credits	3-484-1-0	Jour
Psychology	Doctorate	90 credits	3-220-1-0	Jour
Psychology - Research and Intervention - Clinical Neuropsychology Option	Doctorate	153 credits	3-220-1-5	Jour

Research expertise at a glance

Research areas

- Development, survival and regeneration
- Synaptic plasticity and neurotransmission
- Sensory-motor integration and behaviour

Groupes de recherche

- Groupe de recherche sur le système nerveux central (GRSNC)

Find out more : http://www.grsnc.umontreal.ca/index_e.html

Professors

Consult the list of the department's faculty members and their specializations.

Directory of theses and dissertations

Research news