Student Name: _____ Student Number: _____

Completed: _____ Year: _____

Major Concentration in Neuroscience - 65 credits

Required Courses (20 credits)

☐	BIOL 200	Molecular Biology
☐	CHEM 212 (4 credits)	Intro Organic Chemistry 1 (If CHEM 212 is taken before start at McGill, students substitute elective)
☐	NSCI 200	Introduction to Neuroscience 1 (PHGY209)
☐	NSCI 201	Introduction to Neuroscience 2 (PSYC308)
☐	NSCI 300	Neuroethics
☐	PSYC 311	Human Cognition and the Brain
☐	NSCI 400	Neuroscience Seminar (1)

Core Complementary Courses (9 credits)

☐	COMP 202 ***OR*** COMP 204	Foundations of Programming ***OR*** Computer Programming for Life Sci
☐	BIOL 373 ***OR*** PSYC 305 ***OR*** MATH 324	Biometry ***OR*** Statistics for Experimental Design ***OR*** Statistics
☐	MATH 222 ***OR*** BIOL 309	Calculus 3 ***OR*** Mathematical Models in Biology

Stream Courses (15 credits)

Stream A - Cell and Molecular

☐	BIOL 201 ***OR*** BIOC 212	Cell Biology and Metabolism ***OR*** Molecular Mechanisms of Cell function
☐	BIOL 202	Basic Genetics
☐	BIOC 311	Metabolic Biochemistry
☐	MIMM 214 ***OR*** PHAR 300	Introductory Immunology: Elements of Immunity ***OR*** Drug Action
☐	PHGY 311	Channels, Synapses & Hormones

Stream B - Neurophysiology/Neural Computation

☐	BIOL 201 ***OR*** BIOC 212	Cell Biology and Metabolism ***OR*** Molecular Mechanisms of Cell function
☐	BIOL 306 ***OR*** PHGY 314	Neural Basis of Behaviour ***OR*** Integrative Neuroscience
☐	PHGY 311	Channels, Synapses & Hormones

AND 6 credits from:

☐	ANAT 321	Circuitry of the Human Brain	☐	MATH 223	Linear Algebra
☐	BIOL 309	Mathematical Models in Biology	☐	COMP 206	Intro to Software Systems
☐	MATH 222	Calculus 3	☐	COMP 250	Intro to Computer Science

Stream C - Cognitive/Behavioural

☐	PSYC 213	Cognition
☐	PSYC 318	Behavioural Neuroscience 2
☐	BIOL 306 ***OR*** PHGY 314	Neural Basis of Behaviour ***OR*** Integrative Neuroscience

AND 6 credits from:

☐	ANAT 321	Circuitry of the Human Brain	☐	PSYC 317	Genes and Behaviour
☐	PSYC 302	The Psychology of Pain	☐	PSYC 342	Hormones and Behaviour

Other Complementary Courses (21 credits, 15 of which must be at the 400- or 500-level)

Student take a minimum of 3 credits and a maximum of 16 credits from the following 4 courses:

- ☐ BIOL 301 Cell and Molecular Laboratory (4 credits)
- ☐ BIOL 389 Laboratory in Neurobiology (3 credits)
- ☐ NSCI 410 Independent Research 1 (6 credits)
- ☐ NSCI 420 Independent Research 2 (9 credits)

The remaining credits are chosen from the following courses:

300-level courses:

- ☐ ANAT 321 Circuitry of the Human Brain
- ☐ BIOL 201 ***OR*** BIOC 212 Cell Biology & Metabolism/Mol Mech of Cell Function
- ☐ BIOL 202 Basic Genetics
- ☐ BIOC 311 Metabolic Biochemistry
- ☐ BIOL 300 Molecular Biology of the Gene
- ☐ BIOL 306 Neural Basis of Behaviour
- ☐ BIOL 307 Behavioural Ecology
- ☐ BIOL 320 Evolution of Brain and Behaviour
- ☐ CHEM 222 Introductory Organic Chemistry 2 (4 cts)
- ☐ COMP 206 ***OR*** COMP 250 Intro to Software Systems / Intro to Computer Science
- ☐ MATH 223 Linear Algebra
- ☐ MATH 315 Ordinary Differential Equations
- ☐ MATH 323 Probability
- ☐ MATH 324 Statistics
- ☐ MIMM 214 Intro Immunology: Element of Immunity
- ☐ MIMM 314 Intermediate Immunology
- ☐ NEUR 310 Cellular Neurobiology
- ☐ PHAR 300 Drug Action
- ☐ PHGY 210 Mammalian Physiology 2
- ☐ PHGY 311 Channels, Synapses & Hormones
- ☐ PHGY 314 Integrative Neuroscience
- ☐ PSYC 213 Cognition
- ☐ PSYC 302 The Psychology of Pain
- ☐ PSYC 315 Computational Psychology
- ☐ PSYC 317 Genes and Behaviour
- ☐ PSYC 318 Behavioural Neuroscience 2
- ☐ PSYC 319 Computational Models - Cognition
- ☐ PSYC 342 Hormones and Behaviour

400-/500-level courses:

- ☐ BIOL 414 Invertebrate Brain Circuits and Behaviours
- ☐ BIOL 506 Neurobiology of Learning
- ☐ BIOL 530 Advances in Neuroethology
- ☐ BIOL 532 Developmental Neurobiology Seminar
- ☐ BIOL 580 Genetic Approaches to Neural Systems
- ☐ BIOL 588 Molecular /Cellular Neurobiology
- ☐ BMDE 519 Biomedical Signals and Systems
- ☐ COMP 546 Computational Perception
- ☐ MATH 437 Math Methods in Biology
- ☐ MIMM 414 Advanced Immunology
- ☐ MIMM 509 Inflammatory Processes
- ☐ NEUR 502 Basic/Clinical Aspects of Neuroimmunology
- ☐ NEUR 503 Computational Neuroscience
- ☐ NEUR 507 Topics in Radionuclide Imaging
- ☐ NEUR 550 Free Radical Biomedicine
- ☐ PHAR 562 Neuropharmacology
- ☐ PHGY 425 Analyzing Physiological Systems
- ☐ PHGY 451 Advanced Neurophysiology
- ☐ PHGY 513 Cellular Immunology
- ☐ PHGY 520 Ion Channels
- ☐ PHGY 524 Chronobiology
- ☐ PHGY 556 Topics in Systems Neuroscience
- ☐ PSYC 410 Special Topics in Neuropsychology
- ☐ PSYC 427 Sensorimotor Behaviour
- ☐ PSYC 433 Cognitive Science
- ☐ PSYC 443 Affective Neuroscience
- ☐ PSYC 444 Sleep Mechanisms and Behaviour
- ☐ PSYC 470 Memory and Brain
- ☐ PSYC 502 Psychoneuroendocrinology
- ☐ PSYC 506 Cognitive Neuroscience of Attention
- ☐ PSYC 513 Human Decision-Making
- ☐ PSYC 514 Neurobiology of Memory
- ☐ PSYC 522 Neurochemistry and Behaviour
- ☐ PSYC 526 Advances in Visual Perception
- ☐ PSYC 529 Music Cognition
- ☐ PSYT 455 Neurochemistry
- ☐ PSYT 500 Advances: Neurobiology of Mental Disorders

Notes: