

Student Name: _____

Student Number: _____

Completed: _____

Year: _____

Neuroscience Honours Program - 74 credits

Required Courses (38 credits)

- | | | |
|--------------------------|----------------------|--|
| <input type="checkbox"/> | BIOL 200 | Molecular Biology |
| <input type="checkbox"/> | CHEM 212 (4 credits) | Intro Organic Chemistry 1 (If CHEM 212 is taken prior to start at McGill, students substitute an elective) |
| <input type="checkbox"/> | NSCI 200 | Introduction to Neuroscience 1 (PHGY209) |
| <input type="checkbox"/> | NSCI 201 | Introduction to Neuroscience 2 (PSYC308) |
| <input type="checkbox"/> | NSCI 300 | Neuroethics |
| <input type="checkbox"/> | BIOC 311 | Metabolic Biochemistry |
| <input type="checkbox"/> | PHGY 311 | Channels, Synapses & Hormones |
| <input type="checkbox"/> | PSYC 311 | Human Cognition and the Brain |
| <input type="checkbox"/> | PSYC 318 | Behavioural Neuroscience 2 |
| <input type="checkbox"/> | NSCI 400 | Neuroscience Seminar (1) |
| <input type="checkbox"/> | NSCI 430 | Neuroscience Honours Research Project (9 credits) |

Core Complementary Courses (15 credits)

- | | | |
|--------------------------|--|---|
| <input type="checkbox"/> | BIOL 201 OR BIOC 212 | Cell Biology and Metabolism OR Molecular Mechanisms of Cell function |
| <input type="checkbox"/> | BIOL 373 OR PSYC 305 OR MATH 324 | Biometry OR Statistics for Experimental Design OR Statistics |
| <input type="checkbox"/> | COMP 202 OR COMP 204 | Foundations of Programming OR Computer Programming for Life Sciences |
| <input type="checkbox"/> | MATH 222 OR BIOL 309 | Calculus 3 OR Mathematical Models in Biology |
| <input type="checkbox"/> | ANAT 321 OR BIOL 306 OR PHGY 314 | Circuitry of the Human Brain OR Neural Basis of Behaviour OR Integrative Neuroscience |

21 credits from the following lists, with at least 15 of the 21 credits at the 400- or 500-level

300-level courses:

- | | | | | | |
|--------------------------|-----------------------------|---|--------------------------|----------|--|
| <input type="checkbox"/> | BIOL 202 | Basic Genetics | <input type="checkbox"/> | MATH 324 | Statistics |
| <input type="checkbox"/> | BIOL 300 | Molecular Biology of the Gene | <input type="checkbox"/> | MIMM 214 | Intro Immunology: Elements of Immunity |
| <input type="checkbox"/> | BIOL 301 | Cell and Molecular Laboratory (4 cts) | <input type="checkbox"/> | MIMM 314 | Intermediate Immunology |
| <input type="checkbox"/> | BIOL 306 | Neural Basis of Behaviour | <input type="checkbox"/> | NEUR 310 | Cellular Neurobiology |
| <input type="checkbox"/> | BIOL 307 | Behavioural Ecology | <input type="checkbox"/> | PHAR 300 | Drug Action |
| <input type="checkbox"/> | BIOL 320 | Evolution of Brain and Behaviour | <input type="checkbox"/> | PHGY 210 | Mammalian Physiology 2 |
| <input type="checkbox"/> | BIOL 389 | Laboratory in Neurobiology | <input type="checkbox"/> | PHGY 314 | Integrative Neuroscience |
| <input type="checkbox"/> | CHEM 222 | Introductory Or Introduction to Software | <input type="checkbox"/> | PSYC 213 | Cognition |
| <input type="checkbox"/> | COMP 206 OR COMP 250 | Systems OR Intro to Computer Science | <input type="checkbox"/> | PSYC 302 | The Psychology of Pain |
| <input type="checkbox"/> | MATH 223 | Linear Algebra | <input type="checkbox"/> | PSYC 315 | Computational Psychology |
| <input type="checkbox"/> | MATH 315 | Ordinary Differential Equations | <input type="checkbox"/> | PSYC 317 | Genes and Behaviour |
| <input type="checkbox"/> | MATH 323 | Probability | <input type="checkbox"/> | PSYC 319 | Computational Models - Cognition |
| | | | <input type="checkbox"/> | PSYC 342 | Hormones and Behaviour |

400-/500-level courses:

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

Notes:

Freshman credits (U0) - only for students admitted into a 120-credit program:

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|---|--|
| <input type="checkbox"/> 4 100-level Approved Science Freshman courses: | <input type="checkbox"/> 2 100-level Approved Math Freshman courses: |
| _____ | _____ |
| _____ | _____ |
| _____ | <input type="checkbox"/> 1 Complementary Freshman course: |
| _____ | _____ |