

Student Name: _____

Student ID: _____

Grad term/year: _____

 Interfaculty Program Cognitive Science (54 credits) **Honours Cognitive Science (60 credits)****Core Courses (24 credits)****Required Course (3 credits)** NSCI 201 Introduction to Neuroscience 2**Logic Course (3 credits)** COMP 230 Logic and Computability MATH 318 Mathematical Logic PHIL 210 Introduction to Deductive Logic 1**Computer Science Course (3 credits)** COMP 202 Foundations of Programming **OR**
COMP 204 Computer Programming for Life Sciences COMP 250 Introduction to Computer Science**Statistics Course (3 credits)** PSYC 204 Intro to Psychological Statistics MATH 203 Principles of Statistics 1 MATH 323 Probability**Linguistics Course (3 credits)** LING 201 Introduction to Linguistics LING 210 Introduction to Speech Science LING 260 Meaning in Language**Philosophy Course (3 credits)** PHIL 200 Introduction to Philosophy 1 PHIL 201 Introduction to Philosophy 2 PHIL 221 Intro to the History and Philosophy of Science 2**Neuroscience Course (3 credits)** NSCI 200 Introduction to Neuroscience 1 **OR**

PHGY 209 Mammalian Physiology 1

 PSYC 211 Introductory Behavioural Neuroscience**Psychology Course (3 credits)** PSYC 212 Perception PSYC 213 Cognition**Complementary Courses (30 credits):** **18 cr. stream** _____ : _____
*choose 1 of the 5 areas below **12 cr. ANY complementary** _____ : _____ Complementary courses must include **15 cr. at the 400+ level****Computer Science** COMP 206 Introduction to Software Systems COMP 250 Introduction to Computer Science COMP 251 Algorithms and Data Structures COMP 280 History and Philosophy of Computing COMP 302 Programming Languages and Paradigms COMP 330 Theory of Computation COMP 345 From Natural Language to Data Science COMP 360 Algorithm Design COMP 400 Project in Computer Science COMP 409 Concurrent Programming COMP 417 Introduction Robotics and Intelligent Systems COMP 421 Database Systems COMP 424 Artificial Intelligence COMP 445 Computational Linguistics COMP 451 Fundamentals of Machine Learning COMP 523 Language-based security COMP 527 Logic and Computation COMP 531 Advanced Theory of Computation COMP 545 Natural Language Understanding with Deep Learning COMP 546 Computational Perception COMP 549 Brain-inspired Artificial Intelligence COMP 550 Natural Language Processing COMP 551 Applied Machine Learning COMP 558 Fundamentals of Computer Vision COMP 562 Theory of Machine Learning COMP 579 Reinforcement Learning MATH 222 Calculus 3 MATH 223 Linear Algebra MATH 240 Discrete Structures**Linguistics**Any course at the **300, 400 or 500 level** from the department of Linguistics, or from the following: LING 201 Introduction to Linguistics LING 210 Introduction to Speech Science LING 260 Meaning in Language LING _____ Any LING course at the 300, 400 or 500 level**Philosophy** NSCI 300 Neuroethics (Note: This counts as a Science class) PHIL 306 Philosophy of Mind PHIL 310 Intermediate Logic PHIL 311 Philosophy of Mathematics PHIL 341 Philosophy of Science 1 PHIL 354 Plato PHIL 355 Aristotle PHIL 360 17th Century Philosophy PHIL 361 18th Century Philosophy PHIL 367 19th Century Philosophy PHIL 411 Topics in Philosophy of Logic and Mathematics PHIL 415 Philosophy of Language PHIL 419 Epistemology PHIL 421 Metaphysics PHIL 441 Philosophy of Science 2 PHIL 474 Phenomenology

Psychology

- ANTH 440 Cognitive Anthropology
- MUMT 250 Music Perception and Cognition
- PSYC 204 Introduction to Psychological Statistics
- PSYC 211 Introductory Behavioural Neuroscience
- PSYC 212 Perception
- PSYC 213 Cognition
- PSYC 302 Pain
- PSYC 303 Intro to Human Memory
- PSYC 304 Child Development
- PSYC 305 Statistics for Experimental Design
- PSYC 306 Research Methods in Psychology
- PSYC 311 Human Cognition and the Brain
- PSYC 315 Computational Psychology
- PSYC 318 Behavioural Neuroscience 2
- PSYC 340 Psychology of Language
- PSYC 341 The Psychology of Bilingualism
- PSYC 342 Hormones and Behaviour
- PSYC 352 Research Methods & Lab in Cognitive Psych
- PSYC 353* *Research Methods & Lab in Human Perception*

- PSYC 354* *Research Methods & Lab in Psycholinguistics*
- PSYC 403 Modern Psych in Hist Perspective
- PSYC 406 Psychological Tests
- PSYC 410 Special Topics in Neuropsychology
- PSYC 413 Cognitive Development
- PSYC 415 Electroencephalography (EEG) Laboratory in Psych
- PSYC 427 Sensorimotor Neuroscience
- PSYC 433 Cognitive Science
- PSYC 439 Correlational Techniques
- PSYC 443 Affective Neuroscience
- PSYC 493* *Winter 2026: Special Topics Seminar 2*
- PSYC 506 Cognitive Neuroscience of Attention
- PSYC 513 Human Decision-Making
- PSYC 529 Music Cognition
- PSYC 531 Structural Equal Models
- PSYC 538 Categorization, Comm., & Consciousness
- PSYC 541 Multilevel Modelling
- PSYC 560 Machine Learning Tools in Psychology

*approved substitutions

Neuroscience

- ANAT 321 Circuitry of the Human Brain
- BIOL 200 Molecular Biology
- BIOL 201 Cell Biology and Metabolism
- BIOL 216 Biology of Behaviour
- BIOL 306 Neural Basis of Behaviour
- BIOL 307 Behavioural Ecology
- BIOL 320 Evolution of Brain and Behaviour
- BIOL 389 Laboratory in Neurobiology
- BIOL 414 Invertebrate Brain Circuits and Behaviours
- BIOL 506 Neurobiology of Learning
- BIOL 507 Animal Communication
- BIOL 517 Cognitive Ecology
- BIOL 530 Advances in Neuroethology
- BIOL 532 Developmental Neurobiology Seminar
- BIOL 580 Genetic Approaches to Neural Systems
- BIOL 588 Advances in Molecular/Cellular Neurobiology
- CHEM 212 Introductory Organic Chemistry 1
- NEUR 310 Cellular Neurobiology
- NEUR 503 Computational Neuroscience
- NEUR 507 Topics in Radionuclide Imaging
- NSCI 200 Introduction to Neuroscience 1 **OR**
- PHGY 209 Mammalian Physiology 1
- NSCI 300 Neuroethics

- PHGY 311 Channels, Synapses & Hormones
- PHGY 314 Integrative Neuroscience
- PHGY 556 Topics in Systems Neuroscience
- PSYC 211 Introductory Behavioural Neuroscience
- PSYC 302 Pain
- PSYC 303 Intro to Human Memory
- PSYC 306 Research Methods in Psychology
- PSYC 311 Human Cognition and the Brain
- PSYC 318 Behavioural Neuroscience 2
- PSYC 342 Hormones and Behaviour
- PSYC 410 Special Topics in Neuropsychology
- PSYC 427 Sensorimotor Neuroscience
- PSYC 433 Cognitive Science
- PSYC 443 Affective Neuroscience
- PSYC 444 Sleep Mechanisms and Behaviour
- PSYC 493* *Winter 2026: Special Topics Seminar 2*
- PSYC 502 Psychoneuroendocrinology
- PSYC 506 Cognitive Neuroscience of Attention
- PSYC 529 Music Cognition
- PSYT 301 Issues in Drug Dependence
- PSYT 500 Advances: Neurobiology of Mental Disorders
- PSYT 515 Advanced Studies in Addiction

*approved substitutions

Research Course

- COGS 401 Research Cognitive Science 1 (6 credits)

Honours Course (6 credits) - required course for Honours (6 credits in addition to the 54 credits needed for Interfaculty Program).

- COGS 444 Honours Research

Consult with BA&Sc degree advisor and minor department/program advisor for questions about the following:

Minor (18 credits)

B.A. & Sc. Degree Requirements

- Minimum # Arts and Science cr. in CogSci + Minor:** **21 credits in Arts** **21 credits in Science**

Foundation (freshman) Program

3 Foundation Science courses:

2 Foundation Math courses:

3 Foundation Arts courses (in 2 categories):

H / SS / L _____

H / SS / L _____

H / SS / L _____

- 120 Credits needed to graduate**

(form edited 2025-07-28)