

Student Name: _____

Student Number: _____

Completed: _____

Year _____

Interfaculty Program in Cognitive Science - 54 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

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

PSYC 211 Introductory Behavioural Neuroscience

Psychology Course (3 credits)

PSYC 212 Perception

PSYC 213 Cognition

Complementary Courses (30 credits, of which 15 credits must be 400+ level)

18 credits in one area: _____

12 credits from any area: _____

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 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 523 Language-based security

COMP 526 Probabilistic Reasoning and AI

COMP 527 Logic and Computation

COMP 531 Advanced Theory of Computation

COMP 546 Computational Perception

COMP 550 Natural Language Processing

COMP 551 Applied Machine Learning

COMP 558 Fundamentals of Computer Vision

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

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 370 Problems in Analytic Philosophy

PHIL 410 Advanced Topics in Logic 1

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 470 Topics in Contemporary Analytic Philosophy

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 301 Animal Learning & Theory
- PSYC 302 The Psychology of Pain
- PSYC 304 Child Development
- PSYC 305 Statistics for Experimental Design
- PSYC 311 Human Cognition and the Brain
- PSYC 315 Computational Psychology
- PSYC 317 Genes and Behaviour
- PSYC 318 Behavioural Neuroscience 2
- PSYC 340 Psychology of Language
- PSYC 341 The Psychology of Bilingualism
- PSYC 342 Hormones and Behaviour
- PSYC 352 Cognitive Psychology Laboratory
- PSYC 406 Psychological Tests

- PSYC 410 Special Topics in Neuropsychology
- PSYC 413 Cognitive Development
- PSYC 427 Sensorimotor Behaviour
- PSYC 433 Cognitive Science
- PSYC 470 Memory and Brain
- PSYC 501 Auditory Perception
- PSYC 506 Cognitive Neuroscience of Attention
- PSYC 513 Human Decision-Making
- PSYC 514 Neurobiology Learning and Memory
- PSYC 522 Neurochemistry and Behaviour
- PSYC 526 Advances in Visual Perception
- PSYC 529 Music Cognition
- PSYC 531 Structural Equal Models
- PSYC 536 Correlational Techniques
- PSYC 537 Advanced Seminar in Psychology of Language
- PSYC 538 Categorization, Comm., & Consciousness
- PSYC 541 Multilevel Modelling
- PSYC 545 Topics in Language Acquisition
- PSYC 561 Methods: Developmental Psycholinguistics

Neuroscience

- BIOL 200 Molecular Biology
- BIOL 201 Cell Biology and Metabolism
- BIOL 306 Neural Basis of Behaviour
- BIOL 307 Behavioural Ecology
- BIOL 320 Evolution of Brain and Behaviour
- NSCI 200 **OR** PHGY 209
Introduction to Neuroscience 1/Mammalian Physiology 1
- PSYC 211 Introductory Behavioural Neuroscience
- CHEM 212 Introductory Organic Chemistry 1
- ANAT 321 Circuitry of the Human Brain
- NEUR 310 Cellular Neurobiology
- NSCI 300 Neuroethics
- PHGY 311 Channels, Synapses & Hormones
- PHGY 314 Integrative Neuroscience
- PSYC 302 The Psychology of Pain
- PSYC 311 Human Cognition and the Brain
- PSYC 317 Genes and Behaviour
- PSYC 318 Behavioural Neuroscience 2
- PSYC 342 Hormones and Behaviour

- BIOL 507 Animal Communication
- BIOL 514 **OR** PSYC 514
Neurobiology Learning and Memory
- BIOL 530 Advances in Neuroethology
- BIOL 532 Developmental Neurobiology Seminar
- BIOL 580 Genetic Approaches to Neural Systems
- BIOL 588 Molecular/Cellular Neurobiology
- PHGY 556 Topics in Systems Neuroscience
- PSYC 410 Special Topics in Neuropsychology
- PSYC 427 Sensorimotor Neuroscience
- PSYC 433 Cognitive Science
- PSYC 444 Sleep Mechanisms and Behaviour
- PSYC 506 Cognitive Neuroscience of Attention
- PSYC 522 Neurochemistry and Behaviour
- PSYC 526 Advances in Visual Perception
- PSYT 301 Issues in Drug Dependence
- PSYT 500 Advances: Neurobiology of Mental Disorders
- PSYT 502 Brain Evolution and Psychiatry
- PSYT 515 Advanced Studies in Addiction

Research Course

- COGS401 Research Cognitive Science 1 (6 credits)

Honours Course (6 credits on top of 54 credits)

- COGS 444 Honours Research

Minor (18 credits)

B.A. & Sc. Degree Requirements

- BASC201** **21 credits in Arts** **21 credits in Science**

Freshman Requirements

- 3 Freshman Science courses:** **2 Freshman Math courses:** **3 Freshman Arts courses (in 2 categories)**

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