# Interfaculty Program in Cognitive Science - 54 credits

## Capstone Course (3 credits)
- COMP 417 Introduction Robotics and Intelligent Systems  
- COMP 424 Topics: Artificial Intelligence 1  
- LING 419 Linguistic Theory  
- LING 565 Pragmatics  

**PHIL 511** Seminar: Phil. of Logic and Mathematics  
**PSYC 506** Cognitive Neuroscience of Attention  
**PSYC 532** Cognitive Science  
**PSYC 538** Categorization, Commun. & Consciousness

## Core Complementary Courses (3 credits)
- COMP230 Logic and Computability  
- PHIL210 Introduction to Deductive Logic 1  
- MATH318 Mathematical Logic

### 12 credits in one area:
- COMP 202 Introduction to Computing 1  
- COMP 206 Introduction to Software Systems  
- COMP 250 Introduction to Computer Science  
- COMP 251 Data Structures and Algorithms  
- COMP 280 History and Philosophy of Computing  
- COMP 302 Programming Languages and Paradigms  
- COMP 330 Theoretical Aspects: Computer Science  
- COMP 360 Algorithm Design Techniques  
- COMP 400 Technical Project and Report  
- COMP 409 Concurrent Programming  
- MATH 222 Calculus 3  
- MATH 223 Linear Algebra  
- MATH 240 Discrete Structures 1

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### Other 18 credits:
- COMP 202 Introduction to Computing 1  
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## Computer Science
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## Linguistics
- LING 201 Introduction to Linguistics  
- LING 210 Introduction to Speech Science  
- LING 330 Phonetics  
- LING 331 Phonology 1  
- LING 350 Linguistic Aspects of Bilingualism  
- LING 355 Language Acquisition 1  
- LING 360 Introduction to Semantics  
- LING 371 Syntax 1  
- LING 390 Neuroscience of Language  
- LING 417 Topics at the Interfaces 1  
- LING 418 Topics at the Interfaces 2  
- LING 419 Linguistic Theory  
- LING 440 Morphology  
- LING 450 Laboratory Linguistics  
- LING 451 Acquisition of Phonology  
- LING 455 Second Language Syntax  
- LING 461 Formal Methods in Linguistics  
- LING 530 Acoustic Phonetics  
- LING 531 Phonology 2  
- LING 555 Language Acquisition 2  
- LING 565 Pragmatics  
- LING 571 Syntax 2  
- LING 590 Language Acquisition and Breakdown

## Philosophy
- NSCI 300 Neuroethics (Note: This counts as a Science class)  
- PHIL 304 Chomsky  
- PHIL 306 Philosophy of Mind  
- PHIL 310 Intermediate Logic  
- PHIL 311 Philosophy of Mathematics  
- PHIL 341 Philosophy of Science 1  
- PHIL 360 17th 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  
- PHIL 511 Seminar: Philosophy of Logic and Mathematics
<table>
<thead>
<tr>
<th>Psychology</th>
<th>Neuroscience</th>
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<tbody>
<tr>
<td>ANTH 440 Cognitive Anthropology</td>
<td>PSYC 341 The Psychology of Bilingualism</td>
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<tr>
<td>MUMT 250 Music Perception and Cognition</td>
<td>PSYC 352 Cognitive Psychology Laboratory</td>
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<td>NSCI 201 Introduction to Neuroscience 2</td>
<td>PSYC 406 Psychological Tests</td>
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<td>PSYC 204 Introduction to Psychological Statistics</td>
<td>PSYC 410 Special Topics in Neuropsychology</td>
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<td>PSYC 212 Perception</td>
<td>PSYC 413 Cognitive Development</td>
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<td>PSYC 213 Cognition</td>
<td>PSYC 470 Memory and Brain</td>
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<td>PSYC 301 Animal Learning &amp; Theory</td>
<td>PSYC 501 Auditory Perception</td>
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<td>PSYC 302 The Psychology of Pain</td>
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<td>PSYC 304 Child Development</td>
<td>PSYC 522 Neurochemistry and Behaviour</td>
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<td>PSYC 305 Statistics for Experimental Design</td>
<td>PSYC 526 Advances in Visual Perception</td>
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<td>PSYC 310 Intelligence</td>
<td>PSYC 529 Music Cognition</td>
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<td>PSYC 311 Human Cognition and the Brain</td>
<td>PSYC 532 Cognitive Science</td>
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<td>PSYC 315 Computational Psychology</td>
<td>PSYC 537 Advanced Seminar in Psychology of Language</td>
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<td>PSYC 316 Psychology of Deafness</td>
<td>PSYC 545 Topics in Language Acquisition</td>
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<td>PSYC 318 Behavioural Neuroscience 2</td>
<td>PSYC 561 Methods: Developmental Psycholinguistics</td>
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<td>PSYC 340 Psychology of Language</td>
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<tr>
<td>BIOL 200 Molecular Biology</td>
<td>BIOL 507 Animal Communication</td>
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<tr>
<td>BIOL 201 Cell Biology and Metabolism</td>
<td>BIOL 514 OR PSYC 514</td>
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<tr>
<td>NSCI 200 OR PHGY 209</td>
<td>Neurobiology Learning and Memory</td>
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<tr>
<td>Introductions to Neuroscience 1/Mammalian Physiology 1</td>
<td>BIOL 530 Advances in Neuroethology</td>
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<tr>
<td>NSCI 201 Introduction to Neuroscience 2</td>
<td>BIOL 532 Developmental Neurobiology Seminar</td>
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<td>PSYC 211 Introductory Behavioural Neuroscience</td>
<td>BIOL 588 Molecular/Cellular Neurobiology</td>
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<tr>
<td>ANAT 321 Circuitry of the Human Brain</td>
<td>PHGY 556 Topics in Systems Neuroscience</td>
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<tr>
<td>BIOL 306 OR PHGY 311</td>
<td>PSYC 410 Special Topics in Neuropsychology</td>
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<tr>
<td>Neural Basis of Behaviour/Channels, Synapses &amp; Hormones</td>
<td>PSYC 427 Sensorimotor Behaviour</td>
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<td>NEUR 310 Cellular Neurobiology</td>
<td>PSYC 444 Sleep Mechanisms and Behaviour</td>
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<td>NSCI 300 Neuroethics</td>
<td>PSYC 502 Psychoneuroendocrinology</td>
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<td>(PHGY 311 - see BIOL 306)</td>
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<td>PSYC 317 Genes and Behaviour</td>
<td>PSYT 500 Advances: Neurobiology of Mental Disorders</td>
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<td>PSYC 318 Behavioural Neuroscience 2</td>
<td>PSYT 502 Brain Evolution and Psychiatry</td>
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<td>PSYC 342 Hormones and Behaviour</td>
<td>PSYT 515 Advanced Studies in Addiction</td>
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<td>PSYT 301 Issues in Drug Dependence</td>
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**Research Course**

- COGS 401 Research Cognitive Science 1 (6 credits)
- 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
- PSYT 301 Issues in Drug Dependence

**Honours Course** (6 credits on top of 54 credits)

- COGS 444 Honours Research

**Minor (18 credits)**

**B.A. & Sc. Degree Requirements**

- BASC 201 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)

- H / SS / L