



<p><b>1.0 Degree Title</b> Specify the two degrees for concurrent degree programs</p> <p>Interfaculty Program in Cognitive Science</p> <p><b>1.1 Major (Legacy= Subject) (30-char. max.)</b></p> <p></p> <p><b>1.2 Concentration (Legacy = Concentration/Option) If applicable (30 char. max.)</b></p> <p></p> <p><b>1.3 Minor (with Concentration, if applicable) (30 char. max.)</b></p> <p></p> <p><b>1.4 Category</b></p> <table border="0"> <tr> <td><input type="checkbox"/> Faculty Program (FP)</td> <td><input type="checkbox"/> Honours (HON)</td> </tr> <tr> <td><input type="checkbox"/> Major</td> <td><input type="checkbox"/> Joint Honours Component (HC)</td> </tr> <tr> <td><input type="checkbox"/> Joint Major</td> <td><input type="checkbox"/> Internship/Co-op</td> </tr> <tr> <td><input type="checkbox"/> Major Concentration (CON)</td> <td><input type="checkbox"/> Thesis (T)</td> </tr> <tr> <td><input type="checkbox"/> Minor</td> <td><input type="checkbox"/> Non-Thesis (N)</td> </tr> <tr> <td><input type="checkbox"/> Minor Concentration (CON)</td> <td><input checked="" type="checkbox"/> Other</td> </tr> </table> <p>Please specify</p> <p>Interfaculty Program</p> <p><b>1.5 Complete Program Title</b></p> <p>Interfaculty Program in Cognitive Science</p>	<input type="checkbox"/> Faculty Program (FP)	<input type="checkbox"/> Honours (HON)	<input type="checkbox"/> Major	<input type="checkbox"/> Joint Honours Component (HC)	<input type="checkbox"/> Joint Major	<input type="checkbox"/> Internship/Co-op	<input type="checkbox"/> Major Concentration (CON)	<input type="checkbox"/> Thesis (T)	<input type="checkbox"/> Minor	<input type="checkbox"/> Non-Thesis (N)	<input type="checkbox"/> Minor Concentration (CON)	<input checked="" type="checkbox"/> Other	<p><b>2.0 Administering Faculty/Unit</b></p> <p>Faculty of Science</p> <p><b>Offering Faculty/Department</b></p> <p></p> <p><b>3.0 Effective Term of revision or retirement</b> Please give reasons in 5.0 "Rationale" in the case of retirement (Ex. Sept. 2004 = 200409)    <input type="checkbox"/> Retirement</p> <p>Term:    200809</p> <p><b>4.0 Existing Credit Weight</b>    <b>Proposed Credit Weight</b></p> <p>54    54</p> <p><b>5.0 Rationale for revised program</b></p> <p>The courses that have been omitted are no longer being offered. Those that have been added are newly available in participating departments, and all cover material that uncontroversially forms part of the discipline of cognitive science.</p> <p>Special mention should be made of a course drawn from a Faculty not previously represented in the program. MUMT 250 (Music Perception and Cognition) though drawn from the Faculty of Music covers topics that form part of cognitive science. This addition enhances the interdisciplinary nature of the Cognitive Science Program.</p>
<input type="checkbox"/> Faculty Program (FP)	<input type="checkbox"/> Honours (HON)												
<input type="checkbox"/> Major	<input type="checkbox"/> Joint Honours Component (HC)												
<input type="checkbox"/> Joint Major	<input type="checkbox"/> Internship/Co-op												
<input type="checkbox"/> Major Concentration (CON)	<input type="checkbox"/> Thesis (T)												
<input type="checkbox"/> Minor	<input type="checkbox"/> Non-Thesis (N)												
<input type="checkbox"/> Minor Concentration (CON)	<input checked="" type="checkbox"/> Other												

**6.0 Revised Program Description (Maximum 150 words)**

7.0 List of existing program and proposed program

Existing program (list courses as follows: Subj Code/Crse Num, Title, Credit weight, under the headings of: Required Courses, Complementary Courses, Elective Courses)

Proposed program (list courses as follows: Subj Code/Crse Num, Title, Credit weight, under the headings of: Required Courses, Complementary Courses, Elective Courses)

**Required Course**

(3 credits)  
PSYC 532 (3) Cognitive Science

**Complementary Courses**

(51 credits) 3 credits, one of:  
MATH 318 (3) Mathematical Logic  
PHIL 210 (3) Introduction to Deductive Logic 1  
18 credits from List A in one of Computer Science, Linguistics, Neuroscience, Philosophy, or Psychology.  
12 credits from List A in one of the four remaining units.  
18 credits, at least 12 at the 400 level or higher, chosen from Lists A and/or B in Computer Science, Linguistics, Neuroscience, Philosophy, Psychology and/or Research Courses.

Note 1: Students are responsible for ensuring that they meet all pre- and corequisites for all their courses.  
Note 2: With the permission of the Director of the Cognitive Science program, students may be able to substitute courses in cognate departments, such as Anatomy and Cell Biology, Biology, Neurology, or Physiology.  
Note 3: B.A. & Sc. students who take Interfaculty Programs must take at least 30 credits in Arts and 30 in Science across their Interfaculty Program and their Minor or Minor Concentration.

**COMPUTER SCIENCE**

**List A:**

MATH 240 (3) Discrete Structures 1  
COMP 206 (3) Introduction to Software Systems  
COMP 250 (3) Introduction to Computer Science  
COMP 251 (3) Data Structures and Algorithms  
COMP 302 (3) Programming Languages and Paradigms  
COMP 424 (3) Topics: Artificial Intelligence 1  
COMP 426 (3) Automated Reasoning (DELETE)

**List B:**

MATH 222 (3) Calculus 3  
MATH 223 (3) Linear Algebra  
MATH 328 (3) Computability and Mathematical Linguistics (DELETE)  
▼ COMP 360 (3) Algorithm Design Techniques  
COMP 490 (3) Introduction to Probabilistic Analysis of Algorithms  
COMP 526 (3) Probabilistic Reasoning and AI  
COMP 531 (3) Theory of Computation  
COMP 538 (3) Person-Machine Communication (DELETE)  
COMP 558 (3) Fundamentals of Computer Vision

**Required Course**

(3 credits)  
PSYC 532 (3) Cognitive Science

**Complementary Courses**

(51 credits)  
3 credits, one of:  
MATH 318 (3) Mathematical Logic  
COMP 230 (3) Logic and Computability  
PHIL 210 (3) Introduction to Deductive Logic 1  
18 credits from List A in one of Computer Science, Linguistics, Neuroscience, Philosophy, or Psychology.  
12 credits from List A in one of the four remaining units.  
18 credits, at least 12 at the 400 level or higher, chosen from Lists A and/or B in Computer Science, Linguistics, Neuroscience, Philosophy, Psychology and/or Research Courses.

Note 1: Students are responsible for ensuring that they meet all pre- and corequisites for all their courses.  
Note 2: With the permission of the Director of the Cognitive Science program, students may be able to substitute courses in cognate departments, such as Anatomy and Cell Biology, Biology, Neurology, or Physiology. In addition, prerequisites for some courses may be waived: check with the instructor for details. For further information, consult the Cognitive Science wiki: [http://mcquillaus.com/coqsci/wiki/Main\\_Page](http://mcquillaus.com/coqsci/wiki/Main_Page)  
Note 3: B.A. & Sc. students who take Interfaculty Programs must take at least 30 credits in Arts and 30 in Science across their Interfaculty Program and their Minor or Minor Concentration.

**COMPUTER SCIENCE**

**List A:**

MATH 240 (3) Discrete Structures 1  
COMP 206 (3) Introduction to Software Systems  
COMP 250 (3) Introduction to Computer Science  
COMP 251 (3) Data Structures and Algorithms  
COMP 302 (3) Programming Languages and Paradigms  
COMP 424 (3) Topics: Artificial Intelligence 1  
COMP 527 (3) Logic and Computation

**List B:**

MATH 222 (3) Calculus 3  
MATH 223 (3) Linear Algebra  
COMP 280 (3) History and Philosophy of Computing  
COMP 360 (3) Algorithm Design Techniques  
COMP 400 (3) Technical Project and Report  
COMP 409 (3) Concurrent Programming  
COMP 417 (3) Introduction to Robotics and Intelligent Systems  
COMP 417 (3) Database Systems  
COMP 490 (3) Introduction to Probabilistic Analysis of Algorithms  
COMP 526 (3) Probabilistic Reasoning and AI  
COMP 531 (3) Theory of Computation  
COMP 558 (3) Fundamentals of Computer Vision  
COMP 330 (3) Theoretical Aspects: Computer Science

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8.0 Consultation with  
Related Units

Yes  No

Financial Consult  Yes  No

Attach list of consultations

9. Approvals

Routing Sequence	Name	Signature	Date
Department			
Curric/Acad Committee			
Faculty 1			
Faculty 2			
Faculty 3			
SCTP			
GS			
APPC			
Senate			

Submitted by

Name

Phone

Email

Submission Date

To be completed by ARR:

CIP Code

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MATH 328 (3) Computability and Mathematical Linguistics

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COMP 538 (3) Person-Machine Communication