



<p>1.0 Degree Title Specify the two degrees for concurrent degree programs</p> <input type="text" value="B.Sc"/> <p>1.1 Major (Legacy= Subject) (30-char. max.)</p> <input type="text"/> <p>1.2 Concentration (Legacy = Concentration/Option) If applicable (30 char. max.)</p> <input type="text"/> <p>1.3 Minor (with Concentration, if applicable) (30 char. max.)</p> <input type="text"/> <p>1.4 Category</p> <table border="0"> <tr> <td><input type="checkbox"/> Faculty Program (FP)</td> <td><input checked="" 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 type="checkbox"/> Other</td> </tr> <tr> <td></td> <td>Please specify</td> </tr> <tr> <td></td> <td><input type="text"/></td> </tr> </table> <p>1.5 Complete Program Title</p> <input type="text" value="Honours in Computer Science"/>	<input type="checkbox"/> Faculty Program (FP)	<input checked="" 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 type="checkbox"/> Other		Please specify		<input type="text"/>	<p>2.0 Administering Faculty/Unit</p> <input type="text" value="Science"/> <p>Offering Faculty/Department</p> <input type="text" value="Science/School of Computer Science"/> <p>3.0 Effective Term of revision or retirement Please give reasons in 5.0 "Rationale" in the case of retirement (Ex. Sept. 2004 = 200409)    <input type="checkbox"/> Retirement</p> <p>Term: <input type="text" value="200809"/></p> <p>4.0 Existing Credit Weight      Proposed Credit Weight</p> <table border="1"> <tr> <td style="width: 50px; text-align: center;">72</td> <td style="width: 50px; text-align: center;">72-75</td> </tr> </table> <p>5.0 Rationale for revised program</p> <div style="border: 1px solid black; padding: 5px;"> <p>The School of Computer Science is currently revising all its programs. In particular, it makes the requirements regarding COMP 202 more uniform across all programs. Furthermore, it redesigned the programs to offer students more choice. Finally, program descriptions are simplified.</p> </div>	72	72-75
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72	72-75																		
<p>6.0 Revised Program Description (Maximum 150 words)</p> <div style="border: 1px solid black; padding: 10px; min-height: 200px;"> <p>Honours students must maintain a CGPA of least 3.00 during their studies and at graduation.</p> </div>																			



## B.Sc Honours Program in Computer Science

**EXISTING** as of calendar 2007/08 (online)

### HONOURS IN COMPUTER SCIENCE (72 credits)

Honours students must maintain a CGPA of 3.00 and must have at least this average upon graduation as well.

#### Required Courses (45 credits)

COMP 206 (3) Intro to Software Systems  
 COMP 250 (3) Introduction to Computer Science  
 COMP 252 (3) Algorithms and Data Structures  
 COMP 273 (3) Introduction to Computer Systems  
 COMP 302 (3) Programming Languages and Paradigms  
 COMP 310 (3) Computer Systems and Organization  
 COMP 330 (3) Theoretical Aspects: Computer Science  
 COMP 350 (3) Numerical Computing  
 COMP 362 (3) Honours Algorithm Design  
 COMP 400 (3) Technical Project and Report  
 MATH 222 (3) Calculus 3  
 MATH 223 (3) Linear Algebra  
 MATH 240 (3) Discrete Structures 1  
 MATH 323 (3) Probability  
 MATH 340 (3) Discrete Structures 2  
 or MATH 350 (3) Graph Theory and Combinatorics

#### Complementary Courses (27 credits)

24 credits of COMP and/or ECSE courses, 12 credits of which must be at the 500 level, from the list of complementary courses for the Major in Computer Science, with the addition of COMP 552 Combinatorial Optimization. 3 credits, any 300-level or above Mathematics course (excluding MATH 323, MATH 338, MATH 340, MATH 350)

**PROPOSED** (calendar 2008/09)

### HONOURS IN COMPUTER SCIENCE (72-75 credits)

Honours students must maintain a CGPA of at least 3.00 during their studies and at graduation.

#### Required Courses (42-45 credits)

COMP 202\* (3) Introduction to Computing  
 COMP 206 (3) Introduction to Software Systems  
 COMP 250 (3) Introduction to Computer Science  
 COMP 252 (3) Algorithms and Data Structures  
 COMP 273 (3) Introduction to Computer Systems  
 COMP 302 (3) Programming Languages and Paradigms  
 COMP 310 (3) Operating Systems  
 COMP 330 (3) Theoretical Aspects: Computer Science  
 COMP 350 (3) Numerical Computing  
 COMP 362 (3) Honours Algorithm Design  
 COMP 400 (3) Technical Project and Report  
 MATH 222 (3) Calculus 3  
 MATH 223 (3) Linear Algebra  
 MATH 240 (3) Discrete Structures 1  
 MATH 340 (3) Discrete Structures 2  
 or MATH 350(3) Graph Theory and Combinatorics

\*Students who have sufficient knowledge in a programming language are not required to take COMP 202.

#### Complementary Courses (30 credits)

At least 3 credits selected from:  
COMP 303 (3) Software Development  
COMP 304 (3) Object-oriented Design

6 credits selected from:  
MATH 318 (3) Mathematical Logic  
MATH 323 (3) Probability  
MATH 324 (3) Statistics

The remaining credits selected from computer science courses at the 300-level or above (except COMP 364, COMP 396, COMP 431) and ECSE 508. At least 12 credits must be at the 500 level.

9. Approvals

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

Submitted by

Name: Marisa Lento (for Judy Keniasbera)

Phone: Ext.00895

Email: Marisa@cs.mcgill.ca

Submission Date: April 18, 2007

To be completed by ARR:

CIP Code