



Program/Major or Minor/Concentration Revision Form

(07/2004)

<p>1.0 Degree Title Specify the two degrees for concurrent degree programs</p> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Master of Science (M.Sc.)</div> <p>1.1 Major (Legacy= Subject) (30-char. max.)</p> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Computer Science</div> <p>1.2 Concentration (Legacy = Concentration/Option) If applicable (30 char. max.)</p> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Computational Science and Engineering</div> <p>1.3 Minor (with Concentration, if applicable) (30 char. max.)</p> <p>1.4 Category</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">Faculty Program (FP)</td> <td style="width: 50%; border: none;">Honours (HON)</td> </tr> <tr> <td style="border: none;">Major</td> <td style="border: none;">Joint Honours</td> </tr> <tr> <td style="border: none;">Joint Major</td> <td style="border: none;">Component (HC)</td> </tr> <tr> <td style="border: none;">Major Concentration (CON)</td> <td style="border: none;">Internship/Co-op</td> </tr> <tr> <td style="border: none;">Minor</td> <td style="border: none;"><input checked="" type="checkbox"/> Thesis (T)</td> </tr> <tr> <td style="border: none;">Minor Concentration (CON)</td> <td style="border: none;">Non-Thesis (N)</td> </tr> <tr> <td style="border: none;"></td> <td style="border: none;">Other</td> </tr> <tr> <td style="border: none;"></td> <td style="border: none;">Please specify</td> </tr> </table> <div style="border: 1px solid black; padding: 2px; margin-top: 5px; width: fit-content; margin-left: auto;"> </div> <p>1.5</p> <div style="border: 1px solid black; padding: 2px; margin-top: 5px;">Master of Science (M.Sc.); Computer Science (Thesis) — Computational Science and Engineering (45 credits)</div>	Faculty Program (FP)	Honours (HON)	Major	Joint Honours	Joint Major	Component (HC)	Major Concentration (CON)	Internship/Co-op	Minor	<input checked="" type="checkbox"/> Thesis (T)	Minor Concentration (CON)	Non-Thesis (N)		Other		Please specify	<p>2.0 Administering Faculty/Unit</p> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Graduate Studies</div> <p>Offering Faculty/Department</p> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Faculty of Science / Computer Science</div> <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) Retirement</p> <p>Term: 201409</p> <p>4.0 Existing Credit Weight Proposed Credit Weight</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: 1px solid black; text-align: center; padding: 2px;">46</td> <td style="width: 50%; border: 1px solid black; text-align: center; padding: 2px;">45</td> </tr> </table> <p>5.0 Rationale for revised program</p> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>In order that students conduct a broad research review instead of focussing simply on their specific M.Sc. topic, COMP 601, Thesis Literature Review, 2 credits is being re-instated into the M.Sc. program.</p> <p>The addition of COMP 601, required the adjustment of COMP 691, Thesis Research 1, from 2 credits to 3 credits to fulfill the requirements of 24 credits of thesis courses.</p> <p>This Program Revision Form takes account of the above changes, and as well the recently approved changes in credit weight of COMP 691, COMP 698 and COMP 699 (which were also performed to keep with the 24 credit requirement for thesis courses)</p> </div>	46	45
Faculty Program (FP)	Honours (HON)																		
Major	Joint Honours																		
Joint Major	Component (HC)																		
Major Concentration (CON)	Internship/Co-op																		
Minor	<input checked="" type="checkbox"/> Thesis (T)																		
Minor Concentration (CON)	Non-Thesis (N)																		
	Other																		
	Please specify																		
46	45																		

6.0 Revised Program Description (Maximum 150 words)

No change from what is currently written in the graduate calendar.

M.Sc. in Computer Science Computational Science and Engineering Option

Program Requirements

Thesis Courses (24 credits)

24 credits selected from

- COMP 691 Thesis Research 1 (2 credits)
- COMP 696 Thesis Research 2 (3 credits)
- COMP 697 Thesis Research 3 (4 credits)
- COMP 698 Thesis Research 4 (9 credits)
- COMP 699 Thesis Research 5 (45 credits)

Required Courses

One credit selected as follow:

- COMP 669D1 Computational Science Engineering Seminar (0.5 credits)
- COMP 669D2 Computational Science Engineering Seminar (0.5 credits)

Complementary Courses

(minimum 24 credits)

Two courses from List A, two courses from List B, and the remaining credits to be chosen from graduate (500-, 600-, or 700-level) courses in the School of Computer Science. Two complementary courses must be taken outside the School of Computer Science.

Note: Students with an appropriate background can substitute 3 credits by COMP 696 and 4 credits by COMP 697, but still need to take 6-8 credits from List A and 6-8 credits from List B.

List A: Scientific Computing Courses:

- CIVE 602 Finite Element Analysis (4 credits)
- COMP 522 Modelling and Simulation (4 credits)
- ... long list that remains unchanged

List B: Application and Specialized Methods Courses:

- ATOC 512 Atmospheric and Oceanic Dynamics (3 credits)
- ATOC 513 Waves and Stability (3 credits)
- ATOC 515 Turbulence in Atmosphere and Oceans (3 credits)
- ... long list that remains unchanged

M.Sc. in Computer Science Computational Science and Engineering Option

Program Requirements

Required Thesis Courses (24 credits)

COMP 601 Thesis Literature Review (2 credits)

The remaining 22 credits selected from:

- COMP 691 Thesis Research 1 (3 credits)
- COMP 696 Thesis Research 2 (3 credits)
- COMP 697 Thesis Research 3 (4 credits)
- COMP 698 Thesis Research 4 (10 credits)
- COMP 699 Thesis Research 5 (12 credits)

Engineering Seminar (0.5 credits)

8.0 Consultation with
Related Units

Yes No

Financial Consult Yes No

Attach list of consultations

9. Approvals

Routing Sequence	Name	Signature	Date
Department	<input type="text"/>	<input type="text"/>	<input type="text"/>
Curric/Acad Committee	<input type="text"/>	<input type="text"/>	<input type="text"/>
Faculty 1	<input type="text"/>	<input type="text"/>	<input type="text"/>
Faculty 2	<input type="text"/>	<input type="text"/>	<input type="text"/>
Faculty 3	<input type="text"/>	<input type="text"/>	<input type="text"/>
SCTP	<input type="text"/>	<input type="text"/>	<input type="text"/>
GS	<input type="text"/>	<input type="text"/>	<input type="text"/>
APPC	<input type="text"/>	<input type="text"/>	<input type="text"/>
Senate	<input type="text"/>	<input type="text"/>	<input type="text"/>

Submitted by

Name
Phone
Email
Submission Date

To be completed by ARR:

CIP Code