



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;">Bioinformatics</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; width: 100%; height: 20px; margin-top: 5px;"></div> <p>1.5 <div style="border: 1px solid black; padding: 2px; display: inline-block;">Master of Science (M.Sc.); Computer Science (Thesis) — Bioinformatics Option (45 credits)</div></p>	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 and Postdoctoral 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: <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-left: 20px;">201409</div></p> <p>4.0 Existing Credit Weight Proposed Credit Weight</p> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> <div style="border: 1px solid black; padding: 2px; text-align: center; width: 40%;">45</div> <div style="border: 1px solid black; padding: 2px; text-align: center; width: 40%;">45</div> </div> <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>
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																

6.0 Revised Program Description (Maximum 150 words)

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

7.0 List of existing program and proposed program

Existing program (list courses as follows: Subj Code/Crse Num,

**M.Sc. in Computer Science (Thesis) –
Bioinformatics (45 credits)****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 (4-5 credits)

Required Courses (3 credits)

- COMP 616D1 Bioinformatics Seminar (1.5 credits)
- COMP 616D2 Bioinformatics Seminar (1.5 credits)

Complementary Courses (18 credits)

6 credits chosen from the following courses:

- BINF 621 Bioinformatics: Molecular Biology (3 credits)
- BMDE 652 Bioinformatics: Proteomics (3 credits)
- BTEC 555 Structural Bioinformatics (3 credits)
- COMP 618 Bioinformatics: Functional Genomics (3 credits)
- PHGY 603 Systems Biology and Biophysics (3 credits)

12 credits of 4-credit courses chosen from 500-, 600-, or 700-level Computer Science courses in consultation with the candidate's supervisor.

Note: Students with an appropriate background can substitute 4 credits by COMP 697.

Proposed program (list courses as follows: Subj Code/Crse

**M.Sc. in Computer Science (Thesis) –
Bioinformatics Option (45 credits)****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)

Required Courses (3 credits)

- COMP 616D1 Bioinformatics Seminar (1.5 credits)
- COMP 616D2 Bioinformatics Seminar (1.5 credits)

Complementary Courses (18 credits)

6 credits chosen from the following courses:

- BINF 621 Bioinformatics: Molecular Biology (3 credits)
- BMDE 652 Bioinformatics: Proteomics (3 credits)
- BTEC 555 Structural Bioinformatics (3 credits)
- COMP 618 Bioinformatics: Functional Genomics (3 credits)
- PHGY 603 Systems Biology and Biophysics (3 credits)

12 credits of 4-credit courses chosen from 500-, 600-, or 700-level Computer Science courses in consultation with the candidate's supervisor.

Note: Students with an appropriate background can substitute 4 credits by COMP 697.

Attach extra page(s) as needed

AC-13-55

8.0 Consultation with Related Units

Yes No

Financial Consult

Yes No

Attach list of consultations

9. Approvals

Routing Sequence

Name

Signature

Date

Department

Gregory Dudek Director

November 26 2013

Curric/Acad Committee

Wendy T. Amico

[Signature]

Nov 26, 2013

Faculty 1 *Su*

[Signature]

[Signature]

Nov 6, 18/2014

Faculty 2

[Signature]

[Signature]

Faculty 3

SCTP

GS

APPC

Senate

Submitted by

Name

Bettina Kemme

To be completed by ARR:

Phone

CIP Code

Email

Submission Date