# Program/Major or Minor/Concentration Revision Form

**1.0 Degree Title**
Specify the two degrees for concurrent degree programs

**Master of Science (M.Sc.)**

**1.1 Major (Legacy= Subject) (30-char. max.)**

**Computer Science**

**1.2 Concentration (Legacy = Concentration/Option) If applicable (30 char. max.)**

**Bioinformatics**

**1.3 Minor (with Concentration, if applicable) (30 char. max.)**

**1.4 Category**

- Faculty Program (FP)
- Honours (HON)
- Major
- Joint Honours
- Component (HC)
- Joint Major
- Internship/Co-op
- Major Concentration (CON)
- Thesis (T)
- Minor
- Non-Thesis (N)
- Minor Concentration (CON)
- Other
- Please specify

**1.5 Complete Program Title**

**Master of Science (M.Sc.); Computer Science (Thesis) — Bioinformatics Option (45 credits)**

**2.0 Administering Faculty/Unit**

**Graduate Studies**

**Offering Faculty/Department**

**Faculty of Science / Computer Science**

**3.0 Effective Term of revision or retirement**

Please give reasons in 5.0 “Rationale” in the case of retirement

<table>
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<th>(Ex. Sept. 2004 = 200409)</th>
<th>Retirement</th>
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<td><strong>Term:</strong></td>
<td><strong>201409</strong></td>
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**4.0 Existing Credit Weight**

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<th>Proposed Credit Weight</th>
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<td><strong>45</strong></td>
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**5.0 Rationale for revised program**

In order that students conduct a broad research review instead of focusing simply on their specific M.Sc. topic, COMP 601, Thesis Literature Review, 2 credits is being reinstated into the M.Sc. program.

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.

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)

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

No change from what is currently written in the graduate calendar.
### 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 (14 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.

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### 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.
8.0 Consultation with Related Units  □ Yes  □ No  Financial Consult  □ Yes  □ No

Attach list of consultations

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<th>9. Approvals</th>
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<td><strong>Routing Sequence</strong></td>
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Submitted by

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To be completed by ARR:

CIP Code