**Program/Major or Minor/Concentration Revision Form**

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

| 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)
- [ ] Major
- [ ] Joint Major
- [ ] Major Concentration (CON)
- [ ] Minor
- [ ] Minor Concentration (CON)
- [ ] Honours (HON)
- [ ] Joint Honours Component (HC)
- [ ] Internship/Co-op
- [ ] Thesis (T)
- [ ] Non-Thesis (N)
- [ ] Other
- [ ] Please specify

**1.5 Complete Program Title**

| M.Sc. in Computer Science (Thesis) - Bioinformatics Option/Concentration |

**2.0 Administering Faculty/Unit**

| Graduate Studies |

**Offering Faculty/Department**

| Science / School of Computer Science |

**3.0 Effective Term of revision or retirement**

Please give reasons in 8.0 “Rationale” in the case of retirement

| Term (Ex. Sept. 2004 = 200409) |

| 201001 |

**4.0 Existing Credit Weight**

| 49 |

**Proposed Credit Weight**

| 45 |

**5.0 Description (Maximum 150 words)**

| |

**6.0 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)**

| M.Sc. in Computer Science - Bioinformatics Option/Concentration (49 credits) |

**Required Courses (7 credits)**

- COMP 601 (4) Special Topics in Computer Science
- COMP 616 (3) Bioinformatics Seminar

**Complementary Courses (18 credits)**

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

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

- Thesis Component – Required (24 credits)
  - COMP 698 (9) Thesis Research 1
  - COMP 699 (15) Thesis Research 2

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

| M.Sc. in Computer Science - Bioinformatics Option/Concentration (45 credits) |

**Required Courses (3 credits)**

- COMP 616 (3) Bioinformatics Seminar

**Complementary Courses (18 credits)**

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

**Three 4-credit courses chosen from 500, 600, or 700 level Computer Science courses in consultation with the candidate's supervisor. Note: Students in the B.Sc./M.Sc. (Thesis) track can substitute one 4-credit course by COMP 697.**

- Thesis Component – Required (minimum 24 credits)
  - At least 24 credits, selected from:
    - COMP 691 (2) Thesis Research 1
    - COMP 696 (3) Thesis Research 2
    - COMP 697 (4) Thesis Research 3
    - COMP 698 (9) Thesis Research 4
    - COMP 699 (15) Thesis Research 5
7.0 Consultation with Related Units

- Yes
- No

Financial Consult

- Yes
- No

Attach list of consultations.

8.0 This modification achieves several purposes:

1) It allows the implementation of the new B.Sc./M.Sc. (Thesis) track.
2) It reduces to 45 the number of credits for the Bioinformatics Option. This is achieved by removing COMP 601 (reading course) from the list of required courses.
3) To afford additional flexibility to students who need to maintain a full time registration status, we introduce three new thesis courses, COMP 691 (2 credits), COMP 696 (3 credits), and COMP 697 (4 credits). The total number of required thesis credits remains unchanged.

8.0 Approvals

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Submitted by

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To be completed by ARR: