1.0 Degree Title
Specify the two degrees for concurrent degree programs
Ph.D.

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

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

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
- [ ] Thesis (T)
- [ ] Major Concentration (CON)
- [ ] Non-Thesis (N)
- [ ] Minor
- [ ] Other
- [ ] Minor Concentration (CON)
Please specify

1.5 Complete Program Title
Ph.D. in Chemistry – Chemical Biology Option/Concentration

2.0 Administering Faculty/Unit
Graduate Studies

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
Term: 200809

4.0 Existing Credit Weight
0
Proposed Credit Weight
0

5.0 Rationale for revised program
Course number and credit weight for CHEM 623 Stereochemistry (5) changed to CHEM 522 Stereochemistry (3)

6.0 Revised Program Description (Maximum 150 words)
### Ph.D. in Chemistry - Chemical Biology

#### Option/Concentration

**Required Courses**
- (9 credits)
  - CHEM 650 (1) Seminars in Chemistry 1
  - CHEM 651 (1) Seminars in Chemistry 2
  - CHEM 688 (3) Assessment
  - BIOC 610 (1) Seminars in Chemical Biology 1
  - BIOC 611 (1) Seminars in Chemical Biology 3
  - CHEM 689 (1) Seminars in Chemical Biology 2
  - CHEM 690 (1) Seminars in Chemical Biology 4

**Comprehensive**
- CHEM 701 (0) Comprehensive Examination 1
- CHEM 702 (0) Comprehensive Examination 2

**Complementary Courses**
- (minimum 9 credits)
  - Students entering the program with a M.Sc. degree will normally take three (3) graduate-level courses. Students entering without a M.Sc. degree will normally take five (5) graduate-level courses. At least 3 courses must be from the following list, including at least 3 credits from the first two courses listed below.
  - CHEM 502 (3) Advanced Bio-Organic Chemistry
  - CHEM 503 or PHAR 503 (3) Drug Design and Development 1
  - BIOC 603 (3) Genomics and Gene Expression
  - BIOC 604 (3) Macromolecular Structure
  - CHEM 504 or PHAR 504 (3) Drug Design and Development 2
  - CHEM 514 (3) Biophysical Chemistry
  - CHEM 591 (3) Bioinorganic Chemistry
  - CHEM 621 (5) Recent Advances in Organic Chemistry
  - CHEM 623 (5) Stereochemistry
  - CHEM 629 (5) Organic Synthesis
  - CHEM 655 (4) Advanced NMR Spectroscopy
  - PHAR 562 (3) General Pharmacology 1
  - PHAR 563 (3) General Pharmacology 2
  - PHAR 707 (3) Molecular Pharmacology

The remaining credits may be graduate-level courses approved by the Department.

### Proposed program

**Required Courses**
- (9 credits)
  - CHEM 650 (1) Seminars in Chemistry 1
  - CHEM 651 (1) Seminars in Chemistry 2
  - CHEM 688 (3) Assessment
  - BIOC 610 (1) Seminars in Chemical Biology 1
  - BIOC 611 (1) Seminars in Chemical Biology 3
  - CHEM 689 (1) Seminars in Chemical Biology 2
  - CHEM 690 (1) Seminars in Chemical Biology 4

**Comprehensive**
- CHEM 701 (0) Comprehensive Examination 1
- CHEM 702 (0) Comprehensive Examination 2

**Complementary Courses**
- (minimum 9 credits)
  - Students entering the program with a M.Sc. degree will normally take three (3) graduate-level courses. Students entering without a M.Sc. degree will normally take five (5) graduate-level courses. At least 3 courses must be from the following list, including at least 3 credits from the first two courses listed below.
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  - CHEM 503 or PHAR 503 (3) Drug Design and Development 1
  - BIOC 603 (3) Genomics and Gene Expression
  - BIOC 604 (3) Macromolecular Structure
  - CHEM 504 or PHAR 504 (3) Drug Design and Development 2
  - CHEM 514 (3) Biophysical Chemistry
  - CHEM 591 (3) Bioinorganic Chemistry
  - CHEM 621 (5) Recent Advances in Organic Chemistry
  - CHEM 622 (3) Stereochemistry
  - CHEM 629 (5) Organic Synthesis
  - CHEM 655 (4) Advanced NMR Spectroscopy
  - PHAR 562 (3) General Pharmacology 1
  - PHAR 563 (3) General Pharmacology 2
  - PHAR 707 (3) Molecular Pharmacology

The remaining credits may be graduate-level courses approved by the Department.
8.0 Consultation with Related Units
☐ Yes  ☐ No
Financial Consult  ☐ Yes  ☐ No

Attach list of consultations

9. Approvals
Routing Sequence | Name | Signature | Date
--- | --- | --- | ---
Department | R.B. Lennox | | |
Curric/Acad Committee | D. Ronis | | |
Faculty 1 | | | |
Faculty 2 | | | |
Faculty 3 | | | |
SCTP | | | |
GS | | | |
APPC | | | |
Senate | | | |

Submitted by

Name | Phone | Email | Submission Date
--- | --- | --- | ---

To be completed by ARR:

CIP Code