



<p>1.0 Degree Title Specify the two degrees for concurrent degree programs</p> <div style="border: 1px solid black; padding: 2px; text-align: center;">M.Sc.</div> <p>1.1 Major (Legacy= Subject) (30-char. max.)</p> <div style="border: 1px solid black; padding: 2px;">Chemistry</div> <p>1.2 Concentration (Legacy = Concentration/Option) If applicable (30 char. max.)</p> <div style="border: 1px solid black; padding: 2px;">Chemical Biology</div> <p>1.3 Minor (with Concentration, if applicable) (30 char. max.)</p> <div style="border: 1px solid black; height: 20px;"></div> <p>1.4 Category</p> <table style="width: 100%;"><tr><td><input type="checkbox"/> Faculty Program (FP)</td><td><input type="checkbox"/> Honours (HON)</td></tr><tr><td><input type="checkbox"/> Major</td><td><input type="checkbox"/> Joint Honours Component (HC)</td></tr><tr><td><input type="checkbox"/> Joint Major</td><td><input type="checkbox"/> Internship/Co-op</td></tr><tr><td><input type="checkbox"/> Major Concentration (CON)</td><td><input checked="" type="checkbox"/> Thesis (T)</td></tr><tr><td><input type="checkbox"/> Minor</td><td><input type="checkbox"/> Non-Thesis (N)</td></tr><tr><td><input type="checkbox"/> Minor Concentration (CON)</td><td><input type="checkbox"/> Other</td></tr></table> <p style="margin-left: 100px;">Please specify</p> <div style="border: 1px solid black; height: 20px; margin-left: 100px;"></div> <p>1.5 Complete Program Title</p> <div style="border: 1px solid black; padding: 2px;">M.Sc. in Chemistry - Chemical Biology Option/Concentration</div>	<input type="checkbox"/> Faculty Program (FP)	<input type="checkbox"/> Honours (HON)	<input type="checkbox"/> Major	<input type="checkbox"/> Joint Honours Component (HC)	<input type="checkbox"/> Joint Major	<input type="checkbox"/> Internship/Co-op	<input type="checkbox"/> Major Concentration (CON)	<input checked="" type="checkbox"/> Thesis (T)	<input type="checkbox"/> Minor	<input type="checkbox"/> Non-Thesis (N)	<input type="checkbox"/> Minor Concentration (CON)	<input type="checkbox"/> Other	<p>2.0 Administering Faculty/Unit</p> <div style="border: 1px solid black; padding: 2px; text-align: center;">Graduate Studies</div> <p>Offering Faculty/Department</p> <div style="border: 1px solid black; padding: 2px; text-align: center;">Chemistry</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) <input type="checkbox"/> Retirement</p> <p>Term: <div style="border: 1px solid black; padding: 2px; text-align: center;">200809</div></p> <table style="width: 100%;"><tr><td style="width: 50%;">4.0 Existing Credit Weight</td><td style="width: 50%;">Proposed Credit Weight</td></tr><tr><td style="text-align: center;"><div style="border: 1px solid black; padding: 2px; display: inline-block;">45</div></td><td style="text-align: center;"><div style="border: 1px solid black; padding: 2px; display: inline-block;">45</div></td></tr></table> <p>5.0 Rationale for revised program</p> <div style="border: 1px solid black; padding: 5px; min-height: 100px;">Course number and credit weight for CHEM 623 Stereochemistry (5) changed to CHEM 522 Stereochemistry (3)</div>	4.0 Existing Credit Weight	Proposed Credit Weight	<div style="border: 1px solid black; padding: 2px; display: inline-block;">45</div>	<div style="border: 1px solid black; padding: 2px; display: inline-block;">45</div>
<input type="checkbox"/> Faculty Program (FP)	<input type="checkbox"/> Honours (HON)																
<input type="checkbox"/> Major	<input type="checkbox"/> Joint Honours Component (HC)																
<input type="checkbox"/> Joint Major	<input type="checkbox"/> Internship/Co-op																
<input type="checkbox"/> Major Concentration (CON)	<input checked="" type="checkbox"/> Thesis (T)																
<input type="checkbox"/> Minor	<input type="checkbox"/> Non-Thesis (N)																
<input type="checkbox"/> Minor Concentration (CON)	<input type="checkbox"/> Other																
4.0 Existing Credit Weight	Proposed Credit Weight																
<div style="border: 1px solid black; padding: 2px; display: inline-block;">45</div>	<div style="border: 1px solid black; padding: 2px; display: inline-block;">45</div>																

6.0 Revised Program Description (Maximum 150 words)

7.0 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)

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 Chemistry - Chemical Biology Option/Concentration (45 credits)

Required Courses (45 credits)

CHEM 650	(1)	Seminars in Chemistry 1
CHEM 651	(1)	Seminars in Chemistry 2
CHEM 688	(3)	Assessment

Complementary Courses (minimum 11 credits)

2 credits, two of the following courses:

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

Students will take at least 3 courses 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.

Thesis (minimum 24 credits)

at least 24 credits, selected from:

CHEM 691	(3)	M.Sc. Thesis Research
CHEM 692	(6)	M.Sc. Thesis Research
CHEM 693	(9)	M.Sc. Thesis Research
CHEM 694	(12)	M.Sc. Thesis Research
CHEM 695	(15)	M.Sc. Thesis Research
CHEM 696	(6)	M.Sc. Thesis Research

M.Sc. in Chemistry - Chemical Biology Option/Concentration (45 credits)

Required Courses (45 credits)

CHEM 650	(1)	Seminars in Chemistry 1
CHEM 651	(1)	Seminars in Chemistry 2
CHEM 688	(3)	Assessment

Complementary Courses (minimum 11 credits)

2 credits, two of the following courses:

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

Students will take at least 3 courses 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 522	(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.

Thesis (minimum 24 credits)

at least 24 credits, selected from:

CHEM 691	(3)	M.Sc. Thesis Research
CHEM 692	(6)	M.Sc. Thesis Research
CHEM 693	(9)	M.Sc. Thesis Research
CHEM 694	(12)	M.Sc. Thesis Research
CHEM 695	(15)	M.Sc. Thesis Research
CHEM 696	(6)	M.Sc. Thesis Research

Deleted: **623**

Deleted: **5**

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