



<p>1.0 Degree Title Specify the two degrees for concurrent degree programs</p> <div style="border: 1px solid black; padding: 2px; width: 90%; margin: 5px auto;">B.Sc.</div> <p>1.1 Major (Legacy= Subject) (30-char. max.)</p> <div style="border: 1px solid black; padding: 2px; width: 90%; margin: 5px auto;">Chemistry</div> <p>1.2 Concentration (Legacy = Concentration/Option) If applicable (30 char. max.)</p> <div style="border: 1px solid black; padding: 2px; width: 90%; margin: 5px auto;">Materials Option</div> <p>1.3 Minor (with Concentration, if applicable) (30 char. max.)</p> <div style="border: 1px solid black; height: 20px; width: 90%; margin: 5px auto;"></div> <p>1.4 Category</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> Faculty Program (FP) <input checked="" type="checkbox"/> Major <input type="checkbox"/> Joint Major <input type="checkbox"/> Major Concentration (CON) <input type="checkbox"/> Minor <input type="checkbox"/> Minor Concentration (CON) </td> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> Honours (HON) <input type="checkbox"/> Joint Honours Component (HC) <input type="checkbox"/> Internship/Co-op <input type="checkbox"/> Thesis (T) <input type="checkbox"/> Non-Thesis (N) <input type="checkbox"/> Other Please specify <div style="border: 1px solid black; width: 100%; height: 20px; margin-top: 5px;"></div> </td> </tr> </table> <p>1.5 Complete Program Title</p> <div style="border: 1px solid black; padding: 2px; width: 90%; margin: 5px auto;">Major in Chemistry with Materials Option</div>	<input type="checkbox"/> Faculty Program (FP) <input checked="" type="checkbox"/> Major <input type="checkbox"/> Joint Major <input type="checkbox"/> Major Concentration (CON) <input type="checkbox"/> Minor <input type="checkbox"/> Minor Concentration (CON)	<input type="checkbox"/> Honours (HON) <input type="checkbox"/> Joint Honours Component (HC) <input type="checkbox"/> Internship/Co-op <input type="checkbox"/> Thesis (T) <input type="checkbox"/> Non-Thesis (N) <input type="checkbox"/> Other Please specify <div style="border: 1px solid black; width: 100%; height: 20px; margin-top: 5px;"></div>	<p>2.0 Administering Faculty/Unit</p> <div style="border: 1px solid black; padding: 2px; width: 90%; margin: 5px auto;">Science</div> <p>Offering Faculty/Department</p> <div style="border: 1px solid black; padding: 2px; width: 90%; margin: 5px auto;">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; width: 80%; margin: 5px auto;">200709</div></p> <p>4.0 Existing Credit Weight Proposed Credit Weight</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; text-align: center;"><div style="border: 1px solid black; padding: 2px; width: 80%; margin: 5px auto;">65</div></td> <td style="width: 50%; text-align: center;"><div style="border: 1px solid black; padding: 2px; width: 80%; margin: 5px auto;">62</div></td> </tr> </table> <p>5.0 Rationale for revised program</p> <div style="border: 1px solid black; padding: 5px; margin: 5px auto; width: 90%;"> Changes reflect: 1) retirement of CHEM213, CHEM273, CHEM363 and introduction of CHEM223, CHEM243, CHEM253, and CHEM263. 2) Dropping MATH133, a UO course to bring our program in line with others in the faculty. </div>	<div style="border: 1px solid black; padding: 2px; width: 80%; margin: 5px auto;">65</div>	<div style="border: 1px solid black; padding: 2px; width: 80%; margin: 5px auto;">62</div>
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<p>6.0 Revised Program Description (Maximum 150 words)</p> <div style="border: 1px solid black; height: 250px; width: 100%; margin: 5px auto;"></div>					

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)

Chemistry Majors and Honours Programs Required Courses

(56 credits)

CHEM 212*	(4)	Introductory Organic Chemistry 1
CHEM 213	(3)	Introductory Physical Chemistry
CHEM 222*	(4)	Introductory Organic Chemistry 2
CHEM 273	(1)	Chemical Kinetics
CHEM 277D1	(1.5)	Analytical Chemistry
CHEM 277D2	(1.5)	Analytical Chemistry
CHEM 281	(3)	Inorganic Chemistry 1
CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 345	(3)	Molecular Properties and Structure 1
CHEM 355	(3)	Molecular Properties and Structure 2
CHEM 363	(2)	Physical Chemistry Laboratory 1
CHEM 365	(2)	Statistical Thermodynamics
CHEM 367	(3)	Instrumental Analysis 1
CHEM 377	(3)	Instrumental Analysis 2
CHEM 381	(3)	Inorganic Chemistry 2
CHEM 392	(3)	Integrated Inorganic/Organic Laboratory
CHEM 393	(2)	Physical Chemistry Laboratory 2
MATH 133*	(3)	Vectors, Matrices and Geometry
MATH 222**	(3)	Calculus 3
MATH 315	(3)	Ordinary Differential Equations
PHYS 242	(2)	Electricity and Magnetism

* denotes courses with CEGEP equivalents

** Students who have successfully completed MATH 150 and MATH 151 are not required to take MATH 222.

Major in Chemistry with Materials Option (65 credits)

56 credits as listed above plus

CHEM 334	(3)	Advanced Materials
CHEM 455	(3)	Introductory Polymer Chemistry

Complementary Courses

(3 credits) one of:

CHEM 531	(3)	Chemistry of Inorganic Materials
CHEM 534	(3)	Nanosecond and Nanotechnology
CHEM 543	(3)	Chemistry of Pulp and Paper
CHEM 571	(3)	Polymer Synthesis
CHEM 585	(3)	Colloid Chemistry

Attainment of the Major degree requires a CPGA of 2.00

Chemistry Majors and Honours Programs Required Courses

(53 credits)

CHEM 212*	(4)	Introductory Organic Chemistry 1
CHEM 222*	(4)	Introductory Organic Chemistry 2
CHEM 223	(2)	Introductory Physical Chemistry 1
CHEM 243	(2)	Introductory Physical Chemistry 2
CHEM 277D1	(1.5)	Analytical Chemistry
CHEM 277D2	(1.5)	Analytical Chemistry
CHEM 281	(3)	Inorganic Chemistry 1
CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 345	(3)	Molecular Properties and Structure 1
CHEM 355	(3)	Molecular Properties and Structure 2
CHEM 365	(2)	Statistical Thermodynamics
CHEM 367	(3)	Instrumental Analysis 1
CHEM 377	(3)	Instrumental Analysis 2
CHEM 381	(3)	Inorganic Chemistry 2
CHEM 392	(3)	Integrated Inorganic/Organic Laboratory
CHEM 334	(3)	Advanced Materials
CHEM 253	(1)	Introductory Physical Chemistry 1 Lab
CHEM 263	(1)	Introductory Physical Chemistry 2 Lab
CHEM 393	(2)	Physical Chemistry Laboratory 2
MATH 222**	(3)	Calculus 3
MATH 315	(3)	Ordinary Differential Equations
PHYS 242	(2)	Electricity and Magnetism

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8.0 Consultation with
Related Units

Yes No

Financial Consult Yes No

Attach list of consultations

9. Approvals

Routing Sequence	Name	Signature	Date
Department			
Curric/Acad Committee			
Faculty 1			
Faculty 2			
Faculty 3			
SCTP			
GS			
APPC			
Senate			

Submitted by

Name

Phone

Email

Submission Date

To be completed by ARR:

CIP Code