

AC-05-138 Program/Major or Minor/Concentration Revision Form

(07/2004)

(07/20		
2.0 Administering Faculty/Unit		
Science		
Offering Faculty/Department		
Chemistry		
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: 200709		
4.0 Existing Credit Weight Proposed Credit Weight		
77 74		
5.0 Rationale for revised program		
Changes reflect: 1) retirement of CHEM213, CHEM273, CHEM363 and introduction of CHEM223, CHEM243, CHEM253, and CHEM263. 2) Dropping MATH133, a U0 course to bring our program in line with others in the faculty.		
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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)

Chemistry Majors and Honours Programs	Chemistry Majors and Honours Programs		
Required Courses	Required Courses		
(56credits)	(53 credits)		
CHEM 212* (4) Introductory Organic Chemistry 1	CHEM 212* (4) Introductory Organic Chemistry 1		
CHEM 213 (3) Introductory Physical Chemistry	CHEM 222* (4) Introductory Organic Chemistry 2		
CHEM 222* (4) Introductory Organic Chemistry 2	CHEM 223 (2) Introductory Physical Chemistry 1		
CHEM 273 (1) Chemical Kinetics	CHEM 243 (2) Introductory Physical Chemistry 2		
CHEM 277D1 (1.5) Analytical Chemistry	CHEM 277D1 (1.5) Analytical Chemistry		
CHEM 277D2 (1.5) Analytical Chemistry	CHEM 277D2 (1.5) Analytical Chemistry		
CHEM 281 (3) Inorganic Chemistry 1	CHEM 281 (3) Inorganic Chemistry 1		
CHEM 302 (3) Introductory Organic Chemistry 3	CHEM 302 (3) Introductory Organic Chemistry 3		
CHEM 345 (3) Molecular Properties and Structure 1	CHEM 345 (3) Molecular Properties and Structure 1		
CHEM 355 (3) Molecular Properties and Structure 2	CHEM 355 (3) Molecular Properties and Structure 2		
CHEM 363 (2) Physical Chemistry Laboratory 1	CHEM 365 (2) Statistical Thermodynamics		
CHEM 365 (2) Statistical Thermodynamics	CHEM 367 (3) Instrumental Analysis 1		
CHEM 367 (3) Instrumental Analysis 1	CHEM 377 (3) Instrumental Analysis 2		
CHEM 377 (3) Instrumental Analysis 2	CHEM 381 (3) Inorganic Chemistry 2		
CHEM 381 (3) Inorganic Chemistry 2	CHEM 392 (3) Integrated Inorganic/Organic		
CHEM 392 (3) Integrated Inorganic/Organic	Laboratory		
	CHEM 253 (1) Introductory Physical Chemistry 1 Lab		
Laboratory	CHEM 263 (1) Introductory Physical Chemistry 2 Lab		
CHEM 393 (2) Physical Chemistry Laboratory 2	CHEM 393 (2) Physical Chemistry Laboratory 2		
MATH 133* (3) Vectors, Matrices and Geometry	MATH 222** (3) Calculus 3		
MATH 222** (3) Calculus 3	MATH 315 (3) Ordinary Differential Equations		
MATH 315 (3) Ordinary Differential Equations			
PHYS 242 (2) Electricity and Magnetism	PHYS 242 (2) Electricity and Magnetism		
* denotes courses with CEGEP equivalents	*demotes equipase with CECED equivalents		
** Students who have successfully completed MATH 150 and MATH 151	*denotes courses with CEGEP equivalents		
are not required to take MATH 222.	** Students who have successfully completed MATH 150 and MATH 151		
	are not required to take MATH 222.		
	HONOURS IN CHEMISTRY WITH MATERIALS OPTION		
(77 credits)	(74 credits)		
Required Courses			
(62credits)	Required Courses		
56 credits as listed above plus	(59 credits) 53 credits as listed above plus		
CHEM 334 (3) Advanced Materials	CHEM 334 (3) Advanced Materials		
CHEM 455 (3) Introductory Polymer Chemistry	CHEM 455 (3) Introductory Polymer Chemistry		
Complementary Courses			
(15 credits)	Complementary Courses		
6 credits of research*:	(15 credits)		
CHEM 470 (6) Research Project	6 credits of research*:		
or CHEM 480 (3) Research Project	CHEM 470 (6) Research Project		
and CHEM 490 (3) Research Project	or CHEM 480 (3) Research Project and CHEM 490 (3) Research Project		
6 credits, two of:			
CHEM 531 (3) Chemistry of Inorganic Materials	6 credits, two of:		
CHEM 534 (3) Nanosecond and Nanotechnology	CHEM 531 (3) Chemistry of Inorganic Materials		
CHEM 543 (3) Chemistry of Pulp and Paper	CHEM 534 (3) Nanosecond and Nanotechnology		
CHEM 571 (3) Polymer Synthesis	CHEM 543 (3) Chemistry of Pulp and Paper		
CHEM 585 (3) Colloid Chemistry	CHEM 571 (3) Polymer Synthesis		
3 credits, one of:	CHEM 585 (3) Colloid Chemistry		
CHEE 481 (3) Polymer Engineering	3 credits, one of:		
MIME 260 (3) Materials Science and Engineering	CHEE 481 (3) Polymer Engineering		
MRKT 360 (3) Marketing of Technology	MIME 260 (3) Materials Science and Engineering		
	MRKT 360 (3) Marketing of Technology		
* Students may take up to 12 Research Project credits but only 6	* Students may take up to 12 Research Project credits but only 6 of		
of these may be used to fulfill the program requirement.	* Students may take up to 12 Research Project credits but only 6 of these may be used to fulfill the program requirement.		
Attainment of the Honours degree requires a CGPA of at least	Attainment of the Honours degree requires a CGPA of at least 3.00.		
3.00.			

Proposed program (list courses as follows: Subj Code/Crse

Num, Title, Credit weight, under the headings of: Required

Courses, Complementary Courses, Elective Courses)

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	David Ronis		To be completed by ARR:				
Phone	6940		CIP Code				
Email	ronis@onsac	ger.chem.mcgill.ca					
Submission Date							