Academic Committee Meeting, 27 October 2015
Chemistry Minor Course Changes

- Changes in restriction

CHEM 203	Survey of Physical Chemistry 3 credits	MCC-15-1
CHEM 204	Physical Chem./Biol.Sci. 1 3 credits	MCC-15-2
CHEM 281	Inorganic Chemistry 1 3 credits	MCC-15-3
CHEM 287	Intro Analytical Chemistry 2 credits	MCC-15-4
CHEM 297	Intro Analytical Chem. Lab. 1 credit	MCC-15-5

- Changes in restriction, supplementary calendar information

CHEM 223	Intro Phys Chem 1 2 credits	MCC-15-6

- Changes in prerequisites

Revision for CHEM 367

Revision for CHEM 345

Proposal Reference Number	: 10526
PRN Alias	: 15-16#347
Version No	: 2
Submitted By	: Prof Anthony Mittermaier
Edited By	: Prof Anthony Mittermaier

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Summary of Changes | Prerequisites

	Current Data	New Data
Program Affected?		N
Program Change Form Submitted?		
Subject/Course/Term	CHEM 345 • one term	
Credit Weight or CEU's	3 credits.	
Course Activities	• A - Lecture • T - Tutorial	
Course Title	Course Title on Transcript: Intro to Quantum Chemistry Course Title on Calendar: Introduction to Quantum Chemistry.	
Rationale		CHEM 213 is no longer offered. Students now take CHEM 223 and CHEM 243. We have removed reference to CHEM 213 from the Restrictions. We have the capacity to accept students from other programs so we have removed this restriction as well.
Responsible Instructor		
Course Description	An introduction to quantum chemistry covering the historical development, wave theory, methods of quantum mechanics, and applications of quantum chemistry.	
Teaching Dept.	0287 : Chemistry	
Administering Faculty/Unit	SC : Faculty of Science	
Prerequisites	Prerequisites: CHEM 213 or CHEM 223 and CHEM 243, and PHYS 142, or permission of instructor.	Prerequisites: CHEM 223 and CHEM 243, and PHYS 142, or permission of instructor. Web Registration Blocked? : N
Corequisites		
Restrictions	• Restriction: For Chemistry Honours and Majors only	• Restriction: For Chemistry Honours and Majors only

Projected Enrollment		
Requires Resources Not Currently Available		
Explanation for Required Resources		
Consultation Reports Attached?		
Effective Term of Implementation		201609
File Attachments		No attachments have been saved yet.
To be completed by the Faculty		
For Continuing Studies Use		

Approvals Summary

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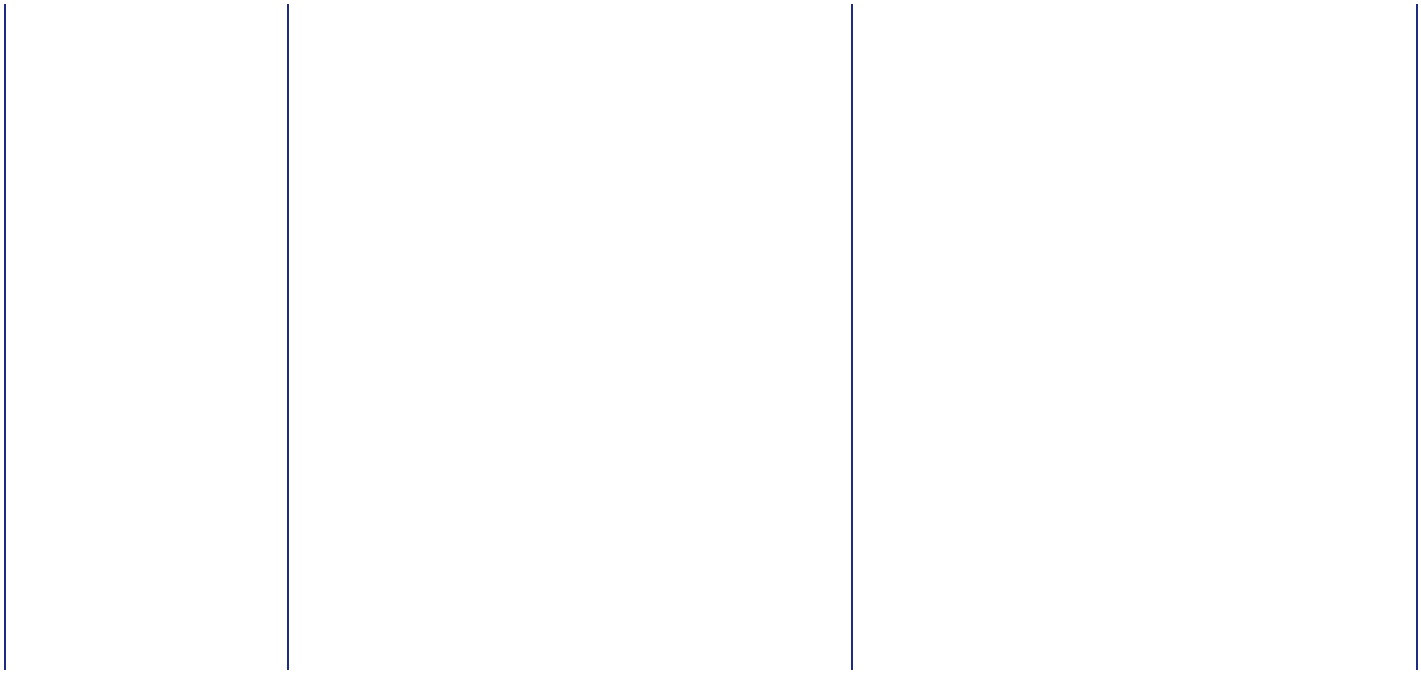
Version No.	Departmental Curriculum Committee	Departmental Meeting	Departmental Chair	Other Faculty	Curric/Academic Committee	Faculty	SCTP	Version Status
3			Approved Masad J Damha Meeting Date: Oct 26 2015 Approval Date: Oct 26 2015 View Comments					Approved by Departmental Chair Edited by: Anthony Mittermaier on: Oct 26 2015
2								Submitted to Department Chair for approval Edited by: Josie D'Amico on: Oct 22 2015
1								Submitted to Department Chair for approval Created on: Oct 7 2015

Revision for CHEM 287

Proposal Reference
Nu



Revision for CHEM 281

Proposal Reference Number	: 10522
PRN Alias	: 15-16#343
Version No	: 3
Submitted By	: Prof Anthony Mittermaier
Edited By	: Ms Josie D'Amico

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Summary of Changes | Restrictions

	Current Data	New Data
Program Affected?		N
Program Change Form Submitted?		
Subject/Course/Term	CHEM 281 • one term	
Credit Weight or CEU's	3 credits.	
Course Activities	• A - Lecture • T - Tutorial	
Course Title	Course Title on Transcript: Inorganic Chemistry 1 Course Title on Calendar: Inorganic Chemistry 1.	
Rationale		CHEM 201 is no longer offered so we can remove that restriction. We have the capacity to accept students from other programs, so we can remove that restriction as well.
Responsible Instructor		
Course Description	Basic concepts of electronic structure and molecular bonding will be developed and applied to the	

Additional Course Charges		
Campus		
Projected Enrollment		
Requires Resources Not Currently Available		
Explanation for Required Resources		
Consultation Reports Attached?		
Effective Term of Implementation		201601
File Attachments		No attachments have been saved yet.
To be completed by the Faculty		
For Continuing Studies Use		

Approvals Summary

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Version No.	Departmental Curriculum Committee	Departmental Meeting	Departmental Chair	Other Faculty	Curric/Academic Committee	Faculty	SCTP	Version Status
3								Approved by Departmental Chair Edited by: Josie D'Amico on: Oct 27 2015
2			Approved Masad J Damha Meeting Date: Oct 26 2015 Approval Date: Oct 26 2015 View Comments					Approved by Departmental Chair Edited by: Anthony Mittermaier on: Oct 26 2015
1								Submitted to Department Chair for approval Created on7pprova7 Tw[illegible]

Revision for CHEM 253

Proposal Reference Number : 10521
PRN Alias : 15-16#342
Version No : 3
Submitted By : Prof Anthony Mittermaier
Edited By : Prof Anthony Mittermaier

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Summary of Changes: Course Descr[redacted]plementary Calendar Info

	Current Da[redacted]	New Data
Program Affected?		N
Program Change Form Submitted?		
Subject/Course/Term	CHEM 253 one t[redacted]	
Credit Weight or CEU's	1 credits.	
Course Activities	LW - T - Tu[redacted]	
Course Title	Course Titl[redacted] Lab Transcript Course Titl[redacted] cal Calendar atory.	
Rationale		CHEM 253 is no longer the lab associated with CHEM 223 and CHEM 243 (except for Chemistry Minors and Education Majors) We would like to remove the confusing statement in the Overview. Chemistry minors formerly took CHEM 203 and now take CHEM 204. In either case, they will take CHEM 253, so CHE[redacted] and CHEM 204 have been added as co-requisites. CHEM 283 is the new lab associated with CHEM 223 and CHEM 243 for CHEM Majors and Honours. This has b[redacted]ed as a Note.
Responsible Instructor		
Course Description	Illustrative experiments in physical chemistry. Laboratory section of CHEM 223.	Illustrative experiments in physical chemistry.
Teaching Dept.	0287 : Chemistry SC : Faculty of Science	

Administering Faculty/Unit		
Prerequisites	Prerequisite: CHEM 110, CHEM 120 or equivalent.	
Corequisites	Corequisite: CHEM 223 or equivalent or permission of instructor.	Corequisite: CHEM 203 or CHEM 204 or CHEM 223 or equivalent or permission of instructor. Web Registration Blocked? : N
Restrictions		
Supplementary Calendar Info	1. Fall	1. Fall Note: For students in non-Chemistry programs and Chemistry Minors students only. Chemistry Honours and Majors must take CHEM 283.
Additional Course Charges		
Campus		
Projected Enrollment		
Requires Resources Not Currently Available		
Explanation for Required Resources		
Consultation Reports Attached?		
Effective Term of Implementation		201609
File Attachments		No attachments have been saved yet.
To be completed by the Faculty		
For Continuing Studies Use		

Approvals Summary

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Version No.	Departmental Curriculum Committee	Departmental Meeting

								Departmental Chair Edited by: Anthony Mittermaier on: Oct 27 2015
2			Approved Masad J Damha Meeting Date: Oct 26 2015 Approval Date: Oct 26 2015 View Comments					Approved by Departmental Chair Edited by: Anthony Mittermaier on: Oct 26 2015
1								Submitted to Department Chair for approval Created on: Oct 6 2015

Corequisites		
Restrictions	• Restrictions: Not open to students who have taken or are taking CHEM 203 or CHEM 204. Permission of instructor.	
Supplementary Calendar Info	1. Winter 2. Note: Chemistry Honours and Majors must take CHEM 243 and CHEM 263 simultaneously.	1. Winter 2. Note: Chemistry Honours and Majors that have not taken CHEM 283 should do so concurrently with CHEM 243.
Additional Course Charges		
Campus		
Projected Enrollment		
Requires Resources Not Currently Available		
Explanation for Required Resources		

Revision for CHEM 223

Proposal Reference Number	: 10519
PRN Alias	: 15-16#340
Version No	: 2
Submitted By	: Prof Anthony Mittermaier
Edited By	: Prof Anthony Mittermaier

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Summary of Changes | Restrictions, Supplementary Calendar Info

	Current Data	New Data
Program Affected?		N
Program Change Form Submitted?		
Subject/Course/Term	CHEM 223 • one term	
Credit Weight or CEU's	2 credits.	
Course Activities	• A - Lecture	
Course Title	Course Title on Transcript: Intro Phys Chem 1 Course Title on Calendar: Introductory Physical Chemistry 1.	
Rationale		CHEM 223 goes into considerably more depth than CHEM 203. Students transferring into Chemistry with only CHEM 203 will need to take CHEM 223 in order to be prepared for later material. This exclusion needs to be removed. CHEM 253 is no longer part of the Chemistry Majors or Honours programs. It is intended only for Chemistry Minors and Education Majors. Chemistry Majors and Honours students now take CHEM 283 as part of their programs. This switch from CHEM 253 to 283 is reflected in the updated Note.
Responsible Instructor		
Course Description	Kinetics 1: Gas laws, kinetic theory of collisions. Thermodynamics: Zeroth law of thermodynamics. First law of thermodynamics, heat capacity, enthalpy, thermochemistry, bond energies. Second law of thermodynamics; the entropy and free energy functions. Third law of thermodynamics, absolute entropies, free energies, Maxwell relations and chemical and thermodynamic equilibrium states.	
Teaching Dept.	0287 : Chemistry	
Administering Faculty/Unit	SC : Faculty of Science	

Prerequisites	Prerequisites: CHEM 110, CHEM 120 or equivalent, PHYS 142, or permission of instructor.	
Corequisites	Corequisite: MATH 222 or equivalent.	
Restrictions	• Restrictions: Not open to students who have taken or are taking CHEM 203 or CHEM 204.	• Restrictions: Not open to students who have taken or are taking CHEM 204.
Supplementary Calendar Info	1. Fall 2. Note: Chemistry Honours and Majors must take CHEM 223 and CHEM 253 simultaneously.	1. Fall 2. Note: Chemistry Honours and Majors must take CHEM 283 either simultaneously or the semester following CHEM 223.
Additional Course Charges		
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Revision for CHEM 204

Proposal Reference Number : 10515
PRN Alias : 15-16#336
Version No : 2
Submitted By : Prof Anthony Mittermaier
Edited By : Prof Anthony Mittermaier

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Summary of Changes | Restrictions

	Current Data	New Data
Program Affected?		N
Program Change Form Submitted?		

