

Academic Committee Meeting, 27 October 2015  
Chemistry Minor Course Changes

-	Changes in restriction		
CHEM 203	Survey of Physical Chemistry		MCC-15-1
	3 credits		
CHEM 204	Physical Chem./Biol.Sci. 1		MCC-15-2
	3 credits		
CHEM 281	Inorganic Chemistry 1		MCC-15-3
	3 credits		
CHEM 287	Intro Analytical Chemistry		MCC-15-4
	2 credits		
CHEM 297	Intro Analytical Chem. Lab.		MCC-15-5
	1 credit		
-	Changes in restriction, supplementary calendar information		
CHEM 223	Intro Phys Chem 1		MCC-15-6
	2 credits		
-	Changes in prerequisites		





Revision for CHEM 367

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## 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 <ul style="list-style-type: none"> <li>one term</li> </ul>					
Credit Weight or CEU's	3 credits.					
Course Activities	<ul style="list-style-type: none"> <li>A - Lecture</li> <li>T - Tutorial</li> </ul>					
Course Title	<table border="1"> <tr> <td>Course Title on Transcript</td> <td>Intro to Quantum Chemistry</td> </tr> <tr> <td>Course Title on Calendar</td> <td>Introduction to Quantum Chemistry.</td> </tr> </table>	Course Title on Transcript	Intro to Quantum Chemistry	Course Title on Calendar	Introduction to Quantum Chemistry.	
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.	<b>Prerequisites: CHEM 223 and CHEM 243, and PHYS 142, or permission of instructor.</b> <table border="1"> <tr> <td>Web Registration Blocked? :</td> <td>N</td> </tr> </table>	Web Registration Blocked? :	N		
Web Registration Blocked? :	N					
Corequisites						
Restrictions	<ul style="list-style-type: none"> <li>Restriction: For Chemistry Honours and Majors only</li> </ul>	<ul style="list-style-type: none"> <li>Restriction: For Chemistry Honours and Majors only</li> </ul>				







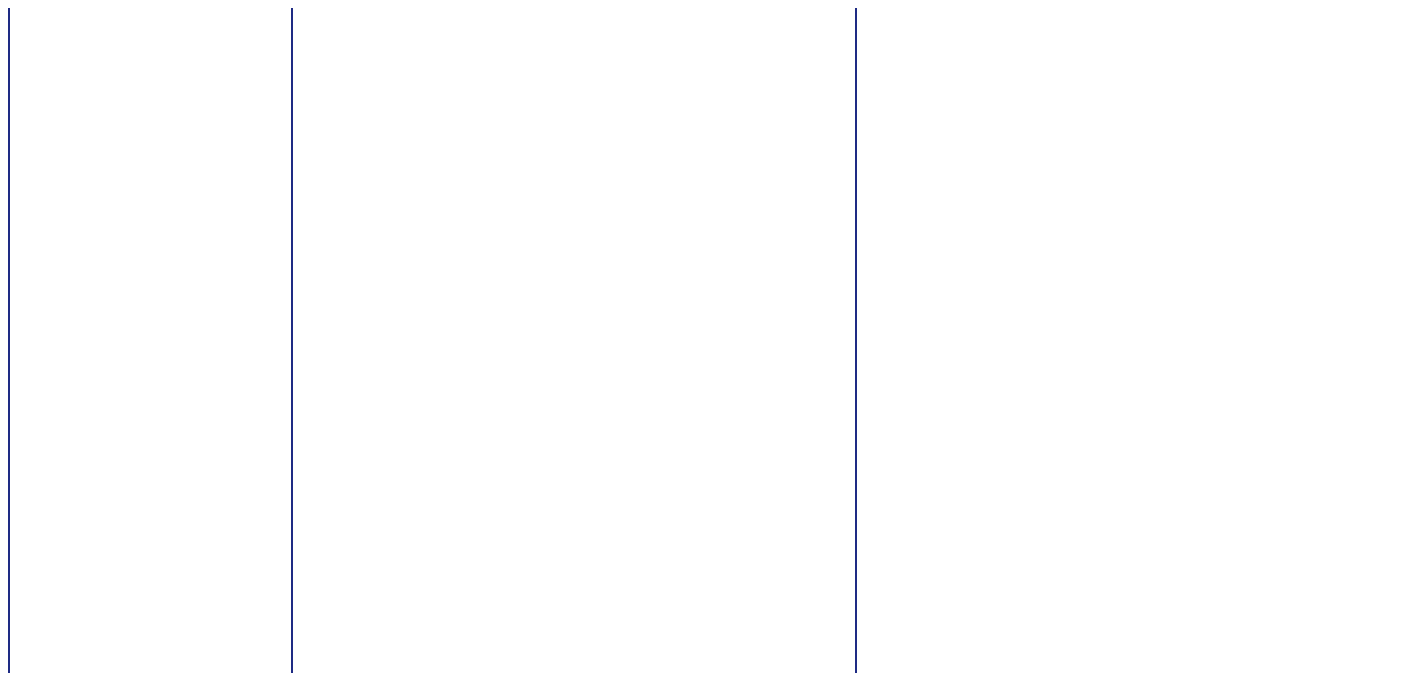
Projected Enrollment		
Requires Resources Not Currently Available		
Explanation for Required Resources		
Consultation Reports Attached?		
Effective Term of Implementation		201609
File Attachments		No attachments have been saved yet.
To be completed by the Faculty		
For Continuing Studies Use		

## 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 <a href="#">View Comments</a>					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







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 <a href="#">View Comments</a>					Approved by Departmental Chair Edited by: Anthony Mittermaier on: Oct 26 2015
1								Submitted to Department Chair for approval Created on 7/26/2015 7:26:38 AM

# 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 Description](#) [Complementary Calendar Info](#)

	Current Data	New Data				
Program Affected?		N				
Program Change Form Submitted?						
Subject/Course/Term	CHEM 253 one t					
Credit Weight or CEU's	1 credits.					
Course Activities	LW - T - T					
Course Title	<table border="1"> <tr> <td>Course Title Transcript</td> <td>Lab</td> </tr> <tr> <td>Course Title Calendar</td> <td>cal atory.</td> </tr> </table>	Course Title Transcript	Lab	Course Title Calendar	cal atory.	
Course Title Transcript	Lab					
Course Title Calendar	cal atory.					
Rationale		<p>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 CHEM 203 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 been added as a Note.</p>				

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.	<p>Corequisite: CHEM 203 or CHEM 204 or CHEM 223 or equivalent or permission of instructor.</p> <p>Web Registration Blocked? : N</p>
Restrictions		
Supplementary Calendar Info	1. Fall	<p>1. Fall Note: For students in non-Chemistry programs and Chemistry Minors students only. Chemistry Honours and Majors must take CHEM 283.</p>
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
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								<b>Departmental Chair</b> Edited by: Anthony Mittermaier on: Oct 27 2015
2			<b>Approved</b> Masad J Damha Meeting Date: Oct 26 2015 Approval Date: Oct 26 2015 <a href="#">View Comments</a>					<b>Approved by Departmental Chair</b> Edited by: Anthony Mittermaier on: Oct 26 2015
1								<b>Submitted to Department Chair for approval</b> Created on: Oct 6 2015







## 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	<b>Restrictions, Supplementary Calendar Info</b>
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	Current Data	New Data				
Program Affected?		N				
Program Change Form Submitted?						
Subject/Course/Term	CHEM 223 <ul style="list-style-type: none"> <li>one term</li> </ul>					
Credit Weight or CEU's	2 credits.					
Course Activities	<ul style="list-style-type: none"> <li>A - Lecture</li> </ul>					
Course Title	<table border="1"> <tr> <td>Course Title on Transcript</td> <td>Intro Phys Chem 1</td> </tr> <tr> <td>Course Title on Calendar</td> <td>Introductory Physical Chemistry 1.</td> </tr> </table>	Course Title on Transcript	Intro Phys Chem 1	Course Title on Calendar	Introductory Physical Chemistry 1.	
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	<ul style="list-style-type: none"> <li>Restrictions: Not open to students who have taken or are taking CHEM 203 or CHEM 204.</li> </ul>	<ul style="list-style-type: none"> <li>Restrictions: Not open to students who have taken or are taking CHEM 204.</li> </ul>
Supplementary Calendar Info	<ol style="list-style-type: none"> <li>Fall</li> <li>Note: Chemistry Honours and Majors must take CHEM 223 and CHEM 253 simultaneously.</li> </ol>	<ol style="list-style-type: none"> <li>Fall</li> <li>Note: Chemistry Honours and Majors must take CHEM 283 either simultaneously or the semester following CHEM 223.</li> </ol>
Additional Course Charges		
Call 905-941-9826 or visit <a href="http://www.utoronto.ca/chemistry">www.utoronto.ca/chemistry</a>	Following CHEM 223, 06Mwing CH.8(9-1.9)(No88114 c9-11 .7d CHE)13.6(1)j.1-5.9(8ester fol0T1.20	






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