Revision for BIOC 404

Proposal Reference Number : 9980
PRN Alias : 14-15#1203
Version No : 4
Submitted By : Mr Thomas Martin Schmeing
Edited By : Mr Thomas Martin Schmeing

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Summary of Changes	Course Title, Course Description, Restrictions

	Current Data	New Data
Program Affected?		N
Program Change Form Submitted?		
Subject/Course/Term	BIOC 404 • one term	
Credit Weight or CEU's	3 credits.	
Course Activities	• A - Lecture	
Course Title	Course Title on Transcript: Biophysical Chemistry Course Title on Calendar: Biophysical Chemistry.	Course Title on Transcript: Biophysical Methods in Biochem Course Title on Calendar: Biophysical Methods in Biochemistry
Rationale		BIOC 404 is currently entitled “Biophysical Chemistry”, yet the course material focuses in large part on the practical applications of the biophysical chemistry phenomena, and it is appropriate for the course name to reflect this. In addition, CHEM514 is entitled “Biophysical Chemistry” and is not an equivalent course, despite being a final year undergraduate course with the same name. Although both fall broadly in the domains of biochemistry & biophysics, the two courses deal with completely different topics, and BIOC 404 has a focus much more centered on research methods. The name “Biophysical Methods in Biochemistry” better conveys course content. The course will continue to present the fundamental biophysical bases of important techniques used in modern biochemistry research laboratories. However, the course emphasizes the utility of these biochemical and biophysical techniques (such as electrophoresis, sedimentation, spectroscopy, magnetic resonance and crystallography) as they are applied to the essential molecules of life, to solve outstanding research questions. The restriction ("Not open...CHEM 404") is being removed since CHEM 404 no longer exists.
Responsible Instructor		Martin Schmeing

Course Description	Hydrodynamic and electrophoretic methods for separation and characterization of macromolecules. Optical and magnetic resonance spectroscopy of biopolymers, and applications to biological systems.	Applications and fundamental bases of important biophysical techniques used in modern biochemistry research laboratories to isolate, characterize and determine the structure and dynamics of proteins, nucleic acids, small molecules and complexes that underlie life and disease.
Teaching Dept.	0216 : Biochemistry	
Administering Faculty/Unit	SC : Faculty of Science	
Prerequisites	Prerequisites: CHEM 204, CHEM 214 or equivalent	
Corequisites		
Restrictions	• Restriction: Not open to students who have taken or are taking CHEM 404.	None
Supplementary Calendar Info	1. Winter	
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
4					Approved Geralda Bacaj Meeting Date: Apr 28 2015 Approval Date: May 12			Approved by Curric/Academic Committee Edited by: Thomas Martin Schmeing on: Apr 21 2015

					2015 View Comments			
3								Approved by Departmental Chair Edited by: Josie D'Amico on: Apr 21 2015
2								Approved by Departmental Chair Edited by: Josie D'Amico on: Apr 21 2015
1			Approved Albert Berghuis Meeting Date: Apr 21 2015 Approval Date: Apr 21 2015 View Comments					Approved by Departmental Chair Created on: Apr 16 2015