

Revision for PHYS 357

Proposal Reference Number : 1894
 PRN Alias : 09-10#847
 Version No : 1
 Submitted By : Dr Guy Moore

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Summary of Changes **Prerequisites**

	Current Data	New Data				
Program Affected?		N				
Program Change Form Submitted?						
Subject/Course/Term	PHYS 357 <ul style="list-style-type: none"> one term 					
Credit Weight or CEU's	3 credits.					
Course Activities	<ul style="list-style-type: none"> A - Lecture 					
Course Title	<table border="1"> <tr> <td>Course Title on Transcript</td> <td>Honours Quantum Physics 1</td> </tr> <tr> <td>Course Title on Calendar</td> <td>Honours Quantum Physics 1.</td> </tr> </table>	Course Title on Transcript	Honours Quantum Physics 1	Course Title on Calendar	Honours Quantum Physics 1.	
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Course Title on Calendar	Honours Quantum Physics 1.					
Rationale		Linear Algebra is a basic mathematical tool needed in quantum mechanics, and is used extensively in this class. Everyone in the programs where the course appears should have linear algebra but we are adding it as a prerequisite to make the requirement explicit.				
Responsible Instructor						
Course Description	Experimental basis for quantum mechanics; wave-packets; uncertainty principle. Hilbert space formalism. Schrodinger equation: eigenvalues and eigenvectors: applications to 1-d problems including the infinite and finite potential wells and the harmonic oscillator. Tunneling. Time independent perturbation theory.					
Teaching Dept.	0293 : Physics					
Administering Faculty/Unit	SC : Faculty of Science					
Prerequisites		<p>Prerequisite: MATH 223 or equivalent</p> <p>Web Registration Blocked? : N</p>				

Corequisites		
Restrictions	<ul style="list-style-type: none"> • Restriction: Honours students or permission of the instructor • Restriction: Not open to students taking or having passed PHYS 446 	
Supplementary Calendar Info	<ol style="list-style-type: none"> 1. Fall 2. 3 hours lectures 	
Additional Course Charges		
Campus		
Projected Enrollment		
Requires Resources Not Currently Available		
Explanation for Required Resources		
Consultation Reports Attached?		
Effective Term of Implementation		201009
File Attachments		No attachments have been saved yet.
To be completed by the Faculty		
For Continuing Education 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
1			Approved Charles Gale Meeting Date: Apr 21 2010 Approval Date: Apr 22 2010 View Comments					Approved by Departmental Chair Created on: Apr 21 2010