

Revision for PHYS 457

Proposal Reference Number : 1565
 PRN Alias : 09-10#518
 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 457 <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 2</td> </tr> <tr> <td>Course Title on Calendar</td> <td>Honours Quantum Physics 2.</td> </tr> </table>	Course Title on Transcript	Honours Quantum Physics 2	Course Title on Calendar	Honours Quantum Physics 2.	
Course Title on Transcript	Honours Quantum Physics 2					
Course Title on Calendar	Honours Quantum Physics 2.					
Rationale		This course is the second part of a two course sequence; the first part should be a prerequisite but somehow it is not (currently).				
Responsible Instructor						
Course Description	Angular momentum and spin operators. Operator methods in quantum mechanics. Coupling of spin and angular momenta. Variational principles and elements of time dependent perturbation theory (the Golden Rule). Solution of the Schrodinger equation in three dimensions. Applications to the hydrogen and helium atoms and to simple problems in atomic and molecular physics.					
Teaching Dept.	0293 : Physics					
Administering Faculty/Unit	SC : Faculty of Science					
Prerequisites		Physics 357 (Hon. Quantum Physics I) <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"> • Restriction: Honours students or permission of instructor • Restriction: Not open to students having taken PHYS 446 	
Supplementary Calendar Info	<ol style="list-style-type: none"> 1. Winter 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: Jan 20 2010