

# PHYS 5383 Syllabus

**T.E. Coan      Spring 2012**

Last edit: 20 Jan 2012

Gr to the Griffiths text.

<b>Date</b>	<b>Topic</b>	<b>Reading</b>	<b>HW Due</b>
L1 17 Jan	Review of QM 1		
L2 19 Jan	Gentle intro to formalism I		
L3 24 Jan	Eigenvalues, eigenvectors and observables	Gr 3.1 - 3.3	HW1: 24 Jan
L4 26 Jan	Probabilistic interpretation.	Gr 3.4	HW2: 31 Jan
L5 31 Jan	Stern-Gerlach exp't and e- in B-field	Gr 3.5	HW2:31 Jan
L6 2 Feb	Time independent perturbation theory	Gr6	HW2: 31Jan
L7 7 Feb	Time independent perturbation theory	Gr6	HW3: 7 Feb
L8 9 Feb	Time independent perturbation theory	Gr6	HW3: 7 Feb
9 Feb	<b>Exam 1 this week</b>		
L9 14 Feb	Identical particles and the Pauli principle	TEC, Gr5	HW4: 25 Feb
L10 16 Feb	IP's, Slater Determinant, Composite particles	TEC, Gr5	HW4: 25 Feb
L11 21 Feb	He atom	Gr5.2	
L12 23 Feb	Multi-electron atoms	Gr5.2	
L13 28 Feb	Multi-electron atoms	Gr5.2	
L14 1 Mar	Time dependent perturbation theory	TEC notes; Gr9.1	
L15 6 Mar	TDPT	TEC notes; Gr9.1	HW5: 14 Mar
L16 8 Mar	TDPT	TEC notes; Gr9.1	HW5: 14 Mar
16 Mar	<b>Exam 2 this week</b>		
L17 20 Mar	TDPT	TEC notes; Gr9.2	
L18 22 Mar	TDPT, Spontaneous emission	TEC; Gr9.3	
L19 27 Mar	Quantum systems+ E/B fields	Ga ; Gr	
L20 29 Mar	Quantum systems + E/B fields	Ga ; Gr	

L21	3 Apr	Quantum systems + E/B fields	Ga ; Gr
L22	5 Apr	Quantum scattering	Ga ; Gr
L23	10 Apr	Quantum scattering	Ga ; Gr
L24	12 Apr	Quantum scattering	Ga ; Gr
	13 Apr	<b>Exam 3 this week</b>	
L25	17 Apr	Depends on my mood	TEC notes
L26	19 Apr	Depends on my mood	TEC notes
L27	24 Apr	TBD	
L28	26 Apr	TBD	
L29	1 May	Review	
	2 May	<b>Final Exam: 11:30 AM - 2:30 PM</b>	Cumulative

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