

Tentative Schedule for PHYS 2380 Quantum Mechanics I, Winter 2016				
Date	Day	Lecture	Assignment	Lecture Topic
6-Jan-16	Wed.	1	Read 2.1-2.4	Introductory concepts - Matter, Interactions, Relativity
8-Jan-16	Fri.	2	Read 3.1-3.4	Black body radiation - observations and theory
11-Jan-16	Mon.	3	Read 4.1-4.2	Black body radiation - observations and theory
13-Jan-16	Wed.	4		Averages, variances and other statistical quantities
15-Jan-16	Fri.	5	Assig. 1	Bohr Atom - Basic theory, applications, refinements
18-Jan-16	Mon.	6		Wave like properties of particles (Chapter 5)
20-Jan-16	Wed.	7		de Broglie waves, wave packets, uncertainty principle
22-Jan-16	Fri.	8		
25-Jan-16	Mon.	9		phase and group velocity, Born interpretation
27-Jan-16	Wed.	10		Relativistic effects, zero point energy
29-Jan-16	Fri.	11	Assig. 2	
1-Feb-16	Mon.	12		Schro. Equation - 1D (Chapter 6)
3-Feb-16	Wed.	13		Interpretation, solutions and applications
5-Feb-16	Fri.	14		Free particles, infinite wells, zero point energy
8-Feb-16	Mon.	15		Step and Barrier potentials
10-Feb-16	Wed.	16	Assig. 3	
12-Feb-16	Fri.	17		
15-Feb-16	Mon.		Mid-term Break	
17-Feb-16	Wed.		Mid-term Break	
19-Feb-16	Fri.		Mid-term Break	
22-Feb-16	Mon.	18		Finite well, Expectation values
24-Feb-16	Wed.	19		Probability currents
26-Feb-16	Fri.	20		1-D Simple Harmonic Oscillator
29-Feb-16	Mon.	21		
2-Mar-16	Wed.	22		Examples and applications
3-Mar-16	Thur.		Term Test	Location 519 Allen, 19:00 to 21:00
4-Mar-16	Fri.	23		
7-Mar-16	Mon.	24		Extend S. eqn. to 2 and 3 D systems (Chap. 7+)
9-Mar-16	Wed.	25		
11-Mar-16	Fri.	26	Assig. 4	Rotation and Angular momentum
14-Mar-16	Mon.	27		Examples and applications
16-Mar-16	Wed.	28		
18-Mar-16	Thur.			Last day to VW
18-Mar-16	Fri.	29		SHO Again
21-Mar-16	Mon.	30		Molecular Spectra (Chap. 9)
23-Mar-16	Wed.	31		
25-Mar-16	Fri.	32	Assig. 5	
28-Mar-16	Mon.	33		3-D S. Eqn and the H-atom
30-Mar-16	Wed.	34		
1-Apr-16	Fri.	35		
4-Apr-16	Mon.	36		
6-Apr-16	Wed.	37		Review
8-Apr-16	Fri.	38	Last Lecture	Review
11-Apr-16	Mon.		Exams begin	
11-Apr-16	Mon.		Final Exam	09:00, Location TBA
25-Apr-16	Mon.		Exams end	