

Tentative Schedule for PHYS 2380 Quantum Mechanics I, Winter 2018				
Date	Day	Lecture	Assignment	Lecture Topic
3-Jan-18	Wed.	1	Read 2.1-2.4	Introductory concepts - Matter, Interactions, Relativity
5-Jan-18	Fri.	2	Read 3.1-3.4	Black body radiation - observations and theory
8-Jan-18	Mon.	3	Read 4.1-4.2	Black body radiation - observations and theory
10-Jan-18	Wed.	4		Averages, variances and other statistical quantities
12-Jan-18	Fri.	5	Assig. 1	Bohr Atom - Basic theory, applications, refinements
15-Jan-18	Mon.	6		Wave like properties of particles (Chapter 5)
17-Jan-18	Wed.	7		de Broglie waves, wave packets, uncertainty principle
19-Jan-18	Fri.	8		
22-Jan-18	Mon.	9		phase and group velocity, Born interpretation
24-Jan-18	Wed.	10		Relativistic effects, zero point energy
26-Jan-18	Fri.	11	Assig. 2	
29-Jan-18	Mon.	12		Schrödinger Equation - 1D (Chapter 6)
31-Jan-18	Wed.	13		Interpretation, solutions and applications
2-Feb-18	Fri.	14		Free particles, infinite wells, zero point energy
5-Feb-18	Mon.	15		Step and Barrier potentials
7-Feb-18	Wed.	16	Assig. 3	
9-Feb-18	Fri.	17		
12-Feb-18	Mon.			Finite well, Expectation values
14-Feb-18	Wed.			Probability currents
16-Feb-18	Fri.			
19-Feb-18	Mon.	18	Mid-term Break	
21-Feb-18	Wed.	19	Mid-term Break	
23-Feb-18	Fri.	20	Mid-term Break	
26-Feb-18	Mon.	21		1-D Simple Harmonic Oscillator (SHO)
28-Feb-18	Wed.	22		Examples and applications
1-Mar-18	Thur.	Tentative	Term Test	Location and Time TBA
2-Mar-18	Fri.	23		
5-Mar-18	Mon.	24		Extend S. eqn. to 2 and 3 D systems (Chap. 7+)
7-Mar-18	Wed.	25		
9-Mar-18	Fri.	26	Assig. 4	Rotation and Angular momentum
12-Mar-18	Mon.	27		Examples and applications
14-Mar-18	Wed.	28		
16-Mar-18	Fri.	29	VW deadline	SHO Again
19-Mar-18	Mon.	30		Molecular Spectra (Chap. 9)
21-Mar-18	Wed.	31		3-D S. Eqn and the H-atom
23-Mar-18	Fri.	32	Assig. 5	
26-Mar-18	Mon.	33		
28-Mar-18	Wed.	34		
30-Mar-18	Fri.	35	Holiday	Good Friday
2-Apr-18	Mon.	36		
4-Apr-18	Wed.	37		Review
6-Apr-18	Fri.	38	Last Lecture	Review
9-Apr-18	Mon.	Start	Exam Period	
TBA	TBA		Final Exam	Location and Time TBA
23-Apr-18	Mon.	End	Exam Period	