

<http://www.physics.smu.edu/~kehoe/5382/F14.html>

Learning Objective: Students will be able to apply their knowledge of Quantum Mechanics in solving physics problems.

PHYSICS 5382 SCHEDULE, FALL 2011

<u>Date</u>	<u>Reading, Homework</u>	<u>Tests, Quizzes:</u>
Aug 26 T	Precursors to Quantum Mechanics	
Aug 28 Th	Ch 1.1: Schrodinger Equation Ch 1 HW: 1,3,4,6,9,11,13,14,18	
Sep 2 T	Ch 1.2: Probability and Statistical Interpretation	Quiz #1
Sep 9 T	Ch 1.6: Uncertainty Principle	Quiz #2
Sep 11 Th	Ch 2.1: Stationary States Ch 2 HW: 1,2,4,5,6,9,10,12,18,20,21,28,43	
Sep 16 T	Ch 2.2: Infinite Square Well HW Ch 1 due	Quiz #3
Sep 23 T	Ch 2.3: Harmonic Oscillator	Quiz #4
Sep 30 T	Ch 2.4: Free Particle	Quiz #5
Oct 7 T	Ch 2.5 & 2.6: Finite Square Well	
Oct 9 Th	Test #1 (Ch. 1-2) HW Ch 2 due	
Oct 14 T	*Fall Break, no class	
Oct 16 Th	Ch 3.1: Hilbert Space Ch 3 HW: 1,3,4,8,10,16,18,22,27,33,37,38	
Oct 21 T	Ch 3.3: Eigenfunction of Hermitian Operator	Quiz #6
Oct 28 T	Ch 3.5: Uncertainty Principle	Quiz #7
Nov 4 T	Ch 4.1: Schrodinger Eq. in Spherical Coordinates HW Ch 3 due Ch 4 HW: 1,2,7,9,10,11,16,21,22,27	Quiz #8
Nov 11 T	Ch 4.2: Hydrogen Atom	Quiz #9
Nov 18 T	Ch 4.3: Angular Momentum	Quiz #10
Nov 25 T	Ch 4.4: Spin	Quiz #11
Nov 27 Th	*Thanksgiving holiday, no class	
Dec 4 Th	Review; HW Ch 4 due	
Dec 13 Sat.	Final Exam	8 am-11am