



will be given prior to the rest of the class. No other make-up quizzes or tests will be granted.

## PHYSICS 3305 SCHEDULE, SPRING 2021

Date	Reading, Homework	Tests, Quizzes,
<u>Presentations:</u>		
Jan 26 T	Ch 1: Precursors to Modern Physics	
Jan 28 Th	Ch 2: Special Relativity Ch 2 HW: 18,20,21,31; 45,51,54,62,70,84,94	
Jan 29 T	""	Quiz #1
Feb 5 T	""	Quiz #2
Feb 7 Th	Ch 3: EM Waves as Particles Ch 3 HW: 12,18,19,20,21,26,34,45,49,53	
Feb 12 T	<b>HW Ch 2 due</b>	Quiz #3
Feb 14 Th	Ch 4: Matter Particles as Waves Ch 4 HW: 17,18,19,22,24,41,43,48,62,63	
Feb 19 T	<b>HW Ch 3 due</b>	Quiz #4
Feb 26 T	Ch 5: Schrodinger Equation; <b>HW Ch 4 due</b> Ch 5 HW: 24,25,28,33,34; 50,60,61,62,78-82	Quiz #5
Mar 7 Th	""	Test #1 (Ch. 1-4)
Mar 12 T	*Spring Break, no class	
Mar 19 T	Ch 6: Unbound States Ch 6 HW: 15,16,24,35,45,48,56 <b>HW Ch 5 due</b>	
Mar 21 Th	Ch 7: Hydrogen Atom Ch 7 HW: 21,32,36,37,38,44,58,68,85 <b>HW Ch 6 due</b>	
Mar 26 T	""	Quiz #6
Apr 4 Th	Ch 8: Spin Ch 8 HW: 28,30,31,35,41,49,50,56,62,80 <b>HW Ch 7 due</b>	Quiz #7
Apr 11 Th	Practice talks	
Apr 16 T	Practice talks cont.	
Apr 18 Th	Ch 10.5-10.8: Semiconductors Ch 10 HW: 50,57,64,66 <b>HW Ch 8 due</b>	Quiz #8
Apr 23 T	Supernovae; <b>HW Ch 10 due</b>	
Apr 30 T	Final Presentations	
May 2 Th	Presentations cont.	
May 11 Sat.	Final Exam 11:30am-2:30pm	

## Learning Objectives for PHYS 3305: (Spring 2015)

**Objective #1:** Students will acquire the ability to perform basic calculations in special relativity.

**Measurements:** a) A mid-term and final exam will incorporate problems in relativity to be solved by the student. Because tests are insufficient demonstrations of learning, b) a pre-test and post-test will also be applied at the beginning and ending of the course, respectively.

**Objective #2:** Students will acquire an ability to understand and utilize simple solutions of the Schrodinger equation of quantum mechanics.

**Measurements:** a) The final exam will incorporate problems requiring the Schrodinger equation to be solved by the student. In addition, b) a pre-test and post-test will also be applied at the beginning and ending of the course, respectively.

**Objective #3:** Students will acquire and demonstrate an ability to communicate a technical subject to an inexpert audience.

**Measurement:** The student will perform a series of preliminary steps leading to the presentation of a modern physics topic by the end of the course. The standards