

Physics 181 Spring 2011 Schedule

Revised 3/29/2011

Week	Day	Date	Reading	HW	Week	Day	Date	Reading	HW
	Mon	1/17/11	MLK Day						
1	Tues	1/18/11	Course Introduction		9	Mon	3/14/11	Q6: The Wavefunction	
	Wed	1/19/11				Tues	3/15/11	Q7: Bound Systems	
	Thurs	1/20/11	E1: Basic Electrostatics			Wed	3/16/11		
	Fri	1/21/11	<i>Tutorial 14 Electrostatics</i>			Thurs	3/17/11	Q8: Spectra	
2	Mon	1/24/11	E2: Electric Fields		Fri	3/18/11	<i>Tutorial 20 Wavefunctions</i>	Q5-Q7	
	Tues	1/25/11	E3: Continuous Charge Distributions		Mar 21 - 25 Spring Break				
	Wed	1/26/11			10	Mon	3/28/11	Q9: Understanding Atoms	
	Thurs	1/27/11	E4: Electric Potential			Tues	3/29/11	Q10: Schrodinger Equation	
Fri	1/28/11	<i>Tutorial 15 Electric Potentials</i>	E1-E3	Wed		3/30/11			
3	Mon	1/31/11	E5: Currents		Thurs	3/31/11	Q11: Energy Eigenfunctions		
	Tues	2/1/11	E6: Circuits		Fri	4/1/11	<i>Tutorial 21 Atoms</i>	Q8-Q10	
	Wed	2/2/11			11	Mon	4/4/11	Q12: Introduction to Nuclei	
	Thurs	2/3/11	E7: Magnetic Fields			Tues	4/5/11	Q13: Stable and Unstable Nuclei	
Fri	2/4/11	<i>Tutorial 16 Circuits</i>	E4-E6	Wed		4/6/11			
4	Mon	2/7/11	E8: Currents Respond to Magnetic Fields		Thurs	4/7/11	Q14: Radioactivity		
	Tues	2/8/11	E9: Currents Create Magnetic Fields		Fri	4/8/11	<i>Tutorial 22 Radioactivity</i>	Q11-Q14	
	Wed	2/9/11			12	Mon	4/11/11	Unit Q Review Day	
	Thurs	2/10/11	E10: Gauss's Law			Tues	4/12/11	T1: Temperature	
Fri	2/11/11	<i>Tutorial 17 Magnetic Fields</i>	E7-E9	Wed		4/13/11			
5	Mon	2/14/11	E11: Ampere's Law		Thurs	4/14/11	T2: Ideal Gases		
	Tues	2/15/11	E12: Calculating Fields		Fri	4/15/11	Unit Q Exam		
	Wed	2/16/11			13	Mon	4/18/11	T3: Gas Processes	
	Thurs	2/17/11	E13: Maxwell's Equation			Tues	4/19/11	T4: Macrostates and Microstates	
Fri	2/18/11	<i>Tutorial 18 Maxwell's Equations</i>	E10-E12	Wed		4/20/11			
6	Mon	2/21/11	E14: Induction		Thurs	4/21/11	<i>Tutorial 23 Ideal Gas Law</i>	T1-T3	
	Tues	2/22/11	AC Circuits		Fri	4/22/11	SPRING MINI-BREAK		
	Wed	2/23/11			14	Mon	4/25/11	T5: The Second Law	
	Thurs	2/24/11	E15: Introduction to Waves			Tues	4/26/11	T6: Temperature and Entropy	
Fri	2/25/11	<i>Tutorial 19 Impedance and Phasors</i>	E13-E14	Wed		4/27/11			
7	Mon	2/28/11	E16: Electromagnetic Waves		Thurs	4/28/11	T7: Some Mysteries Resolved		
	Tues	3/1/11	<i>Unit E Review Day</i>	E15-E16	Fri	4/29/11	<i>Tutorial 24 Entropy</i>	T4-T6	
	Wed	3/2/11			15	Mon	5/2/11	T8: Calculating Entropy Changes	
	Thurs	3/3/11	Q1: Standing Waves			Tues	5/3/11	T9: Heat Engines	
Fri	3/4/11	Unit E Exam		Wed		5/4/11			
8	Mon	3/7/11	Q2: Wave Nature of Light		Thurs	5/5/11	<i>Unit T Review Day</i>	T7-T9	
	Tues	3/8/11	Q3: Particle Nature of Light		Fri	5/6/11	Unit T Exam		
	Wed	3/9/11			16	Mon	5/9/11	Optional Review Session: 1 - 3 pm	
	Thurs	3/10/11	Q4: Wave Nature of Matter			Tues	5/10/11		
Fri	3/11/11	Q5: Quantum Facts of Life	Q1-Q4	Wed		5/11/11	Final Exam 1-3pm		

Date	Laboratory	Date	Laboratory
1/27/11	Lab 1: Electrostatics	3/17/11	Lab 8: Lasers & Diffraction
2/3/11	Lab 2: Ohm's Law	3/31/11	Lab 9: Lenses and Spectra
2/10/11	Lab 3: DC Circuits	4/7/11	Lab 10: Schrödinger Eq.
2/17/11	Lab 4: Visualizing Vector Fields	4/14/11	Lab 11: Radioactive Decay
2/24/11	Lab 5: Mapping E&M Fields	4/21/11	Lab 12: Thermodynamics
3/3/11	Lab 6: Standing Waves	4/28/11	Lab 13: Thermal Expansion
3/10/11	Lab 7: Diffraction Effects		

ASSIGNMENTS

Date	Week	Attendance	Preflight & On-Line HW	Written HW	Written HW due
17-Jan-11	1	T,R,F	E1		
24-Jan-11	2	M,T,R,F	E2, E3, E4	HW1: E1-E3 (6)	1/28/11
31-Jan-11	3	M,T,R,F	E5, E6, E7	HW2: E4-E6 (6)	2/4/11
7-Feb-11	4	M,T,R,F	E8, E9, E10	HW3: E7-E9 (6)	2/11/11
14-Feb-11	5	M,T,R,F	E11, E12, E13	HW4: E10-E12 (6)	2/18/11
21-Feb-11	6	M,T,R,F	E14, E15	HW5: E13-E14 (4)	2/25/11
28-Feb-11	7	M,T,R,F	E16, Q1, Q2	HW6: E15-E16 (4)	3/1/11
7-Mar-11	8	M,T,R,F	Q3, Q4, Q5	HW7: Q1-Q4 (8)	3/11/11
14-Mar-11	9	M,T,R,F	Q6, Q7, Q8	HW8 Q5-Q7 (6)	3/18/11
28-Mar-11	10	M,T,R	Q9, Q10	HW9: Q8-Q10 (6)	4/1/11
4-Apr-11	11	M,T,R,F	Q11, Q12, Q13	HW10-11: Q11-Q14 (8)	4/8/11
11-Apr-11	12	M,T,R,F	Q14, T1		4/12/11
18-Apr-11	13	M,T,R,F	T2, T3, T4	HW12: T1-T3 (6)	4/21/11
25-Apr-11	14	M,T,R,F	T5, T6, T7	HW13: T4-T6 (6)	4/29/11
2-May-11	15	M,T,R,F	T8, T9	HW14: T7-T9 (6)	5/5/11