

Physics 132

Syllabus

Spring 2009

Wk	Day	- Date -	Lecture	Chapter	Topic	Laboratory
1	M	March 30, 2008	Lecture 1	21/1	Intro & Charge, Induction	Lab 1 (Electric Force and Charge)
	T	March 31, 2008				
	W	April 1, 2008	Lecture 2	21/2	Coulomb's Law	
	R	April 2, 2008				
	F	April 3, 2008	Lecture 3	22/1	Field, Field Lines	
2	M	April 6, 2008	Lecture 4	22/2	Distributions of charges	Lab 2 (Electric Field and Flux)
	T	April 7, 2008				
	W	April 8, 2008	Lecture 5	22/3	Continuous Distributions	
	R	April 9, 2008				
	F	April 10, 2008	Lecture 6	23/1	Electric Flux	
3	M	April 13, 2008	Lecture 7	23/2	Gauss' Law	Lab 3 (Potentials and Conductors)
	T	April 14, 2008				
	W	April 15, 2008	Lecture 8	23/3	Applications of Gauss' Law	
	R	April 16, 2008				
	F	April 17, 2008	Lecture 9	24/1	Electric Potentials	
4	M	April 20, 2008	Lecture 10	24/2	Calculating Potentials	Lab 4 (Capacitance and Energy)
	T	April 21, 2008				
	W	April 22, 2008	Lecture 11	24/3	Potentials and Conductors	
	R	April 23, 2008				
	F	April 24, 2008	Lecture 12	25/1	Capacitors	
5	M	April 27, 2008	Lecture 13	25/2	Adding Capacitors	Lab 5 (Resistance)
	T	April 28, 2008				
	W	April 29, 2008	Lecture 14	26/1	Current	
	R	April 30, 2008				
	F	May 1, 2008	Lecture 15	26/2	Resistance and Ohm's Law	
6	M	May 4, 2008	Lecture 16		Single Loop Circuits	Lab 6 (Circuits I)
	T	May 5, 2008				
	W	May 6, 2008	Lecture 17	27/1	Review	
	R	May 7, 2008	Midterm			
	F	May 8, 2008	Lecture 18	27/2	Multi-loop Circuits	
7	M	May 11, 2008	Lecture 19	27/3	RC circuits	Lab 7 (Circuits II)
	T	May 12, 2008				
	W	May 13, 2008	Lecture 20	28/1	Magnetic Fields	
	R	May 14, 2008				
	F	May 15, 2008	Lecture 21	28/2	Magnetic Forces	
8	M	May 18, 2008	Lecture 22	29/1	Biot-Savart	Lab 8 (Magnetic Fields I)
	T	May 19, 2008				
	W	May 20, 2008	Lecture 23	29/2	Ampere's Law	
	R	May 21, 2008				
	F	May 22, 2008	Lecture 24	29/3	Law	
9	M	May 25, 2008	MEM DAY		--	Lab 9 (Magnetic Fields II)
	T	May 26, 2008				
	W	May 27, 2008	Lecture 25	30/1	Faraday's Law	
	R	May 28, 2008				
	F	May 29, 2008	Lecture 26	30/2	Inductance/RL	
10	M	June 1, 2008	Lecture 27	30/3	Energy/Mutual Inductance	Lab 10 (RLC)
	T	June 2, 2008				
	W	June 3, 2008	Lecture 28	31/1	LC/RLC - oscillations	
	R	June 4, 2008				
	F	June 5, 2008	Lecture 29	32/1	Maxwell's Equations	

Note: Topics covered in any given lecture may deviate from the list given above. Please check the course website for reading assignments and other updates.