

Reading_HW_Schedule

Class	Day	Section	Title	Pages/ Section	Homework Problems	Due Date
1	01/12	17.1	Electric Charge	3	none	
		17.2	Conductors and Insulation	3	none	
		17.3	Conservation and Quantization of Charge	2	none	
2	01/14	17.4	Coulomb's Law	5	9, 13, 16	01/21
3	01/16	17.5	Electric Field and Electric Forces	3	31, 32, 33	01/23
4	01/21	17.6	Calculating Electric Fields	3	36, 43, 47	01/26
		17.7	Electric Field Lines	2	49, 50, 52	01/26
5	01/23	17.8	Gauss's Law and Field Calculations	5	54, 56, 57	01/28
6	01/26	17.9	Charges on Conductors	3	62, 63, 64	01/30
7	01/28	18.1	Electric Potential Energy	5	2, 3, 8	02/02
		18.2	Potential	4	12, 15, 24	02/02
8	01/30	18.3	Equipotential Surfaces	3	28, 29, 31	02/04
		18.4	The Millikan Oil-Drop Experiment	1	34, 35	02/04
9	02/02	18.5	Capacitors	3	38, 40, 41	02/06
		18.6	Capacitors in Series and in Parallel	3	48, 51, 53	02/06
10	02/04	18.7	Electric Field Energy	2	58, 60, 63	02/09
		18.8	Dielectrics	3	69, 71, 72	02/09
		18.9	Molecular Model of Induced Charge	1	none	
11	02/06	19.1	Current	3	1, 2, 4	02/11
		19.2	Resistance and Ohm's Law	5	7, 10, 14	02/11
12	02/09	19.3	Electromotive Force and Circuits	6	20, 24, 25	02/13
13	02/11	19.4	Energy and Power in Electric Circuits	3	33, 34, 37	02/16
14	02/13	19.5	Resistors in Series and Parallel	3	47, 49, 52	02/18
15	02/16	19.6	Kirchhoff's Rules part 1	6	57, 59, 60	02/23
16	02/18		Kirchhoff's Rules part 2			
17	02/20	19.7	Electrical Measuring Instruments	1	none	
		19.8	Resistance-Capacitance Circuits	3	63, 66, 69	02/23
		19.9	Physiological Effects of Currents	1	none	
		19.10	Power Distribution Systems	3	none	
18	02/23		Review			
19	02/25		Review			
20	02/27		Midterm			
21	03/02	20.1	Magnetism	2	none	
		20.2	Magnetic Field and Magnetic Force	8	1, 2, 4	03/09
22	03/06	20.3	Motion of Charged Particles in a Magnetic Field	3	13, 14, 16	03/11
		20.4	Mass Spectrometers	2	22, 23, 24	03/11
23	03/09	20.5	Magnetic Force on a Current-Carrying Conductor	3	26, 28, 31	03/13
24	03/11	20.6	Force and Torque on a Current Loop	4	35, 38, 39	03/23
25	03/13	20.7	Magnetic Field of a Long, Straight Conductor	2	42, 45, 49	03/25
		20.8	Force between Parallel Conductors	3	53, 56	03/25
26	03/23	20.9	Current Loops and Solenoids	3	57, 58, 64	03/27
27	03/25	20.10	Magnetic Field Calculations	3	71, 73, 74	03/30
		20.11	Magnetic Materials	1	75, 76	03/30
28	03/27	21.1	Induction Experiments	2	none	
		21.2	Magnetic Flux	2	1, 2, 3	04/01
29	03/30	21.3	Faraday's Law	4	6, 7, 10	04/06
30	04/01	21.4	Lenz's Law	3	12, 14, 15	04/08
31	04/06	21.5	Motional Electromotive Force	3	21, 23, 24	04/10
		21.6	Eddy Currents	1	none	
32	04/08	21.7	Mutual Inductance	2	28, 29, 31	04/13
33	04/10	21.8	Self-Inductance	2	32, 34, 37	04/15

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		21.9	Transformers	3	38, 39, 40	04/15
34	04/13	21.10	Magnetic Field Energy	2	43, 44, 46	04/17
35	04/15	21.11	The R—L Circuit	3	49, 50, 51	04/20
		21.12	The L—C Circuit	1	54, 55	04/20
36	04/17	22.1	Phasors and Alternating Currents	3	1, 2	04/22
		22.2	Resistance and Reactance	6	3, 6, 7	04/22
37	04/20	22.3	The Series R—L—C Circuit	4	9, 11, 14	04/24
38	04/22	22.4	Power in Alternating-Current Circuits	3	15, 16, 17	04/27
39	04/24	22.5	Series Resonance	3	19, 22, 25	04/29
40	04/27	22.6	Parallel Resonance	1	27, 28, 29	04/29
41	04/29		Review			
42	05/01		Review			
43	05/04		Final Exam from 11:00-13:00			