University of California, Santa Barbara

Department of Physics

Syllabus - Physics 6C - Spring 1998

Week	#	Date	Pre-Lecture Reading	Topics (Partial List)
1	1	3/31	20-1 → 20-3 pp. 518-526	Circuits, Kirchoff's Rule, Equivalent Resistance
	2	4/2	20-5, 20-6 pp. 526-531	Measurements, RC circuits
2	3	4/7	21-1, 21-2 pp. 550-557	Magnetic Field, Force on Conductors Carrying Current
	4	4/9	21-2, 21-4 pp. 557-559, 563-569	Magnetic Torque on a Loop of Current, Biot-Savart Law
3	5	4/14	22-1 pp. 588-596	Laws of Faraday and Lenz
	6	4/16	22-2, 22-3 pp. 597-601, 613-615	Inductance, Exponentials, and Transformers
4	7	4/21	23-1 → 23-3 pp. 628-641	Light, Index of Refraction
	8	4/23	23-3, 23-4 pp. 641-654	Light Rays, Reflection and Refraction, Total Internal Reflection
5	9	4/28	24-1, 24-2 pp. 662-675	Images, Mirrors
	10	4/30	24-3 pp. 676-687	Lenses
6	**11**	**5/5**	**MIDTERM**	**Chapters 20-24**
	12	5/7	25-1 → 25-3 pp. 698-715	The Eye, The Magnifier, The Microscope
7	13	5/12	26-2, 26-1 pp. 739-741, 735-739	Thin Films, Huygens Principle, Two Slit Interference
	14	5/14	26-3, 26-4 pp. 741-746, 748-753	Diffraction, Polarization
8	15	5/19	27-1, 27-2 pp. 765-775	Relativity: Time, Time Dilatation
	16	5/21	27-3 → 27-5 pp. 776-778 781-787	Relativity: Length Contraction, Velocity, Energy, Gravity
9	17	5/26	28-1, 28-2 pp. 798-806	Photons, Wave Particle Duality
	18	5/28	28-3, 29-1 pp. 807-809, 818-825	Balmer Series, Rutherford Scattering
10	19	6/2	29-1, 29-2 pp. 825-835	Bohr Atom, Wave Particle Duality
	20	6/4		Review / Contingency
10	**21**	**6/5**	**FINAL 7:30-10:30pm Campbell Hall**	**Chapters 20-29**