

PHYSICS 104 - SPRING 1993

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COURSE MATERIALS:

- a) College Physics
Serway & Faughn (Saunders College Publishing, Third Edition)
- b) Physics 104 Lab Manual
- c) calculator with exponential and trig functions

EXAMS:

- >There will be three exams on the dates shown (Mondays) at 7:15 - 8:15 pm
- >You may bring a calculator to the exams
- >All needed formulae and constants will be provided with the exams. NO books or crib sheets will be permitted.
- > THERE WILL BE NO MAKEUP EXAMS. IN CASE OF DOCUMENTED ILLNESS OR EMERGENCY, GRADES WILL BE BASED ON THE REMAINING EXAMS. DROP THE COURSE IF YOU ARE NOT SURE THAT YOU WILL BE ABLE TO ATTEND ALL EXAMS.

HOMEWORK:

- >The homework is due in the boxes at the entrance to the lecture hall before your lecture on **Wednesday**.
- >Solutions to the homework will be on reserve in the Physics Library

LABORATORIES:

- >You must complete all 11 laboratories. You must attend the lab section to which you are assigned. Your TA will initial your lab note book before you leave. If you have to miss a lab, it is your responsibility to make up the lab, if possible during the same week. Your TA will help you find a makeup lab.
- >You must bring a bound, quadrilled notebook to the lab. The book remains in the lab until the end of the semester. You may use last semester's book.

GRADES:

- > the final grade will be computed in the following way:
quizzes, homework and labs 20%
one-hour exams: 20%, 20% and 10% (your worst exam counts least)
final exam (cumulative) 30%.

OFFICE HOURS:

- > Profs. Haeberli and Ogelman will have office hours on Monday 3:30 and Tuesday 1:20. For help at other times make an appointment after lecture.
- > All TA office hours will be in the consultation room (Room 3252, Chamberlin). You may go to the office hours of any TA. The schedule of consultation hours is on the back of the yellow sheet.

(Syllabus on reverse).

SYLLABUS for PHYSICS 104 (Spring 1993)

WK	DATE	CHAPTER	HOMEWORK (due date)	LAB
1	W Jan. 20	Ch16: Electric Forces and Electric Fields	Ch 16: 2,5,9,12,19, 21,26,40,	no lab
	F Jan. 22	Ch16	58,61,66,73; (due 1/27)	
2	M Jan. 25	Ch16		E2: Electric Fields
	W Jan. 27	Ch17: Electric Energy and Capacitance	Ch 17: 3,4,6,21,23, 26,31,44,	
	F Jan. 29	Ch17	51,54,65,76; (due 2/3)	
3	M Feb. 1	Ch17; Ch 18: Current and Resistance		E1: Electrostatics
	W Feb. 3	Ch 18	Ch 18:4,5,24,39,58; (due 2/10)	
	F Feb. 5	Ch19: Direct Current Circuits	Ch 19: 3,13,14,17,18,22,26,	
4	M Feb. 8	Ch 19	27,34,38,54,60; (due 2/10)	E4: DC Circuits
	W Feb. 10	Ch 20: Magnetism	Ch 20: 5,11,16,20,24,30,40;	
	F Feb. 12	Ch 20	49,53,57,61,73; (due 2/17)	
5	M Feb. 15	REVIEW Ch 16-19		no lab
	EXAM Ch 16-19 (7:15 - 8:15 pm)			
	W Feb. 17	Ch 20		
	F Feb. 19	Ch 21: Induced Voltages, Inductance	Ch 21: 5,14,18,21,26,36,41,	
6	M Feb. 22	Ch 21	56,65; (due 2/24)	E7: Induction
	W Feb. 24	Ch 21		
	F Feb. 26	Ch 22: Alternating Current Circuits	Ch 22: 7,12,17,22,25,31,33,	
7	M March 1	Ch 22	37,40,48,56,67; (due 3/3)	E8: Oscilloscope and RC Circuit
	W March 3	Ch 22		
	F March 5	Ch 23: Electromagnetic Waves	Ch 23: 7,8,21,25; (due 3/17)	
	SPRING RECESS March 6 to March 14			
8	M March 15	Ch 24 Reflection and Refraction	Ch 24: 7,13,19,34,39,	E9: AC Circuits
	W March 17	Ch 24	48,53,60;(due 3/24)	
	F March 19	Ch 25: Mirrors and Lenses	Ch 25: 3,15,22,26,37,	
9	M March 22	REVIEW Ch 20-23	41,57,61; (due 3/31)	no lab
	EXAM Ch 20-23 (7:15 - 8:15 pm)			
	W March 24	Ch 25		
	F March 26	Ch 26: Wave Optics	Ch. 26: 10,15,23,27,33,41	
10	M March 29	Ch 26	51,66; (also due 3/31)	L2: Lenses
	W March 31	Ch 27: Optical Instruments	Ch 27: 8,9,17,22,29,	
	F April 2	Ch 27	35,61,71; (due 4/7)	
11	M April 5	Ch 28: Relativity	Ch 28: 7,8,15,24,32	L3: Telescope and Microscope
	W April 7	Ch 28	39,47,61; (due 4/14)	
	F April 9	Good Friday Recess		
12	M April 12	Ch 29: Quantum Physics	Ch 29: 9,10,12,17,23,29,33,	no lab
	W April 14	CH 29	37,42,44,52,58; (due 4/21)	
	F April 16	CH 29		
13	M April 19	REVIEW Ch 24-28		L1: Diffraction
	EXAM Ch 24-28 (7:15 - 8:15 pm)			
	W April 21	Ch 30: Atomic Physics	CH 30: 6,13,25,27,29,37,40,43,	
	F April 23	Ch 30	54,58,57,58; (due 4/28)	
14	M April 26	Ch 30		L5 Spectrum of Hydrogen
	W April 28	Ch 32: Nuclear Physics	Ch 32:1,4,7,8,12,16,17,21,25,	
	F April 30	Ch 32	32,36,37; (due 5/5)	
15	M May 3	Ch 32		N2: Radioactivity
	W May 5	REVIEW		
	F May 7	REVIEW		
	FINAL EXAM 5:05 WEDNESDAY MAY 12			