

PHYSICS 201 - Summer '94

Prerequisites:

Calculus (Math 22) or equivalent

Materials needed:

Text: D. Halliday, R. Resnick & J. Walker, *Fundamentals of Physics*, 4th edition

Laboratory Manual: *Experiments in General Physics*

Laboratory Notebook: preferably spiral bound notebook with lined ruling. Bring to first laboratory meeting

Calculator: A scientific calculator is good, but not required. A knowledge of how to use it is assumed.

Lecture/Discussion:

In this summer session the lectures and discussions will be differentiated. They will both be taught by Prof. Wilson. The information presented is meant to supplement, not substitute for reading and studying the text.

Laboratory:

Follow the "General Instructions" in the laboratory manual (pages 1-3). The experiments are to be written up during the laboratory period in the lab notebook. The lab notebook is not to be taken from the laboratory. **YOU MUST COMPLETE AT LEAST 10 OF THE 11 LABORATORY ASSIGNMENTS IN ORDER TO RECEIVE CREDIT FOR THE COURSE.** Several make up times are provided. These are correlated with exams and may only be used for the labs assigned after the preceding exam.

Homework:

The homework problems assigned for each chapter and their due dates are listed in the syllabus. Homework will be considered in your grade. You are encouraged to discuss the homework with others but you will not benefit by simply copying another's work. The solutions will be posted and explained at the lecture/discussion period.

Office Hours:

Prof. Wilson will have daily office hours to be posted and will be available by appointment.

Examinations:

DO NOT REGISTER FOR THIS COURSE IF YOU ARE NOT SURE THAT YOU WILL BE ABLE TO ATTEND ALL EXAMS. Makeup exams will not be given. The missing exam will be prorated using other exam scores, only if you have a written medical excuse. There will be three one-hour exams and one two-hour final exam on the dates indicated. The exams will be closed book, however, you may bring a 3" x 5" card (one sheet) to each exam.

Grades:

The grading system is as follows: A, B, C, D, F, and W. A grade of W (Withdrawal) will be given if you do not attend the course.

PHYSICS 201 Summer 1994

Dr. R. L. Wilson

Wk	Day	Text Chap	Problems	Topics	Pbs Due	Lab (topic)	
1	M	6/13	1 31,40	Intro & Measurement	1, 2	M1 (Msrmt & error)	
	T	6/14	2 10,18,19,27,31,39	Lin Motion-Free Fall		M1 (Msrmt & error)	
	W	6/15	3 6,16,29,32,43,51	Vectors		M2 (Vector sum)	
	T	6/16	4 4,9,54,69,73,84	3 Diml Motion -proj mtn		M2 (Vector sum)	
2	M	6/20	4,5	Force & Motion	3	M4 (free fall)	
	T	6/21	5 3,9,37,41,50,57,63,80	Force & Motion-friction		M4 (free fall)	
	W	6/22	6 6,14,24,36,44,58,61,72,75	F & M-uniform circular		Make up	
	T	6/23	EXAM #1 Chapters 1 - 6			4,5	Make up
3	M	6/27	8	Work & KE Conservation of energy Conservation of energy	6,7	M5 (projectile motion)	
	T	6/28	7 7,13,16,20,21,30,37,19,19,19			M5 (projectile motion)	
	W	6/29	7,8			M10 (pwr & friction)	
	T	6/30	8 6,16,25,28,61,71,80,85,100,108			M10 (power & friction)	
4	M	7/4	4th of July - No Classes			8,9	
	T	7/5	9 3,8,17,20,20,38,43,49,55,60	Systems of Particles	M6 (centripetal force)		
	W	7/6	10 14,18,28,31,36,47,59,60,71,81	Collisions	M6 (centripetal force)		
	T	7/7	EXAM #2 Chapters 6 - 9		Make up		
5	M	7/11	11 4,23,39,46,54,62,82	Rotation	10,11	M9 (Flywheel)	
	T	7/12	11,12 6,13,25,33,37,48,60	Torque & Ang Momntm		M9 (Flywheel)	
	W	7/13	12	Equilibrium & Elasticity		M7 (simple pend)	
	T	7/14	13 9,25,27,33,39,48,61			M7 (simple pend)	
6	M	7/18	14 11,17,25,35,68,83,86	Oscillations - pendulum	12	M15 (SHM)	
	T	7/19	14,15 8,15,22,49,52,78	Gravitation		M15 (SHM)	
	W	7/20	15,16 6,19,23,41,74,86	Fluids		Make up	
	T	7/21	EXAM #3 Chapters 10 - 14			13,14	Make up
7	M	7/25	18	Fluids	15	Make up	
	T	7/26	19 2,8,10,17,46,51	Temperature		Make up	
	W	7/27	20 22,25,36,37,44,49,53	Heat & 1st Law		H2 (gas thermometer)	
	T	7/28	21 14,31,41,58,60,68,73	Kinetic Theory		H2 (gas thermometer)	
8	M	8/1	21,22 4,6,9,21,34,37,43,46	Enthrophy & 2nd Law	20	H3 (ht of vaporization)	
	T	8/2	22	Enthrophy & 2nd Law		H3 (ht of vaporization)	
	W	8/3	Review			Make up	
	T	8/4	FINAL EXAM Comprehensive w/cha 15,16 & 19-22 wtd			21,22	Make up